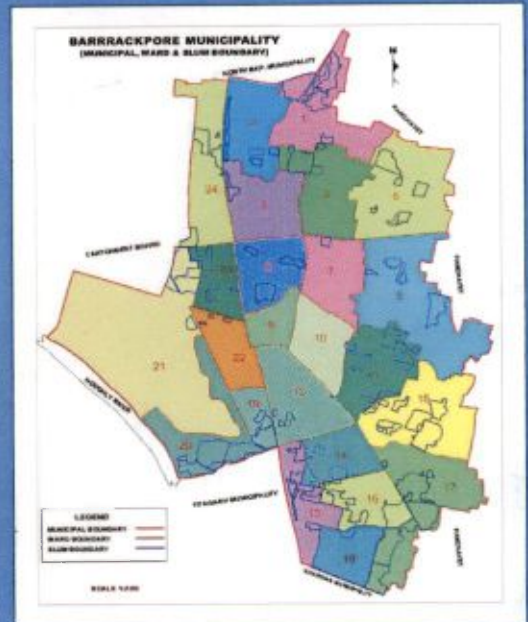


# Detailed Project Report for Construction of 670 EWS Houses under BLC mode of Pradhan Mantri Awas Yojana (PMAY) – HFA (U) for Barrackpore Municipality

YEAR – 2017-18



Submitted By:

**BARRACKPORE MUNICIPALITY**

## **PREFACE**

Pradhan Mantri Awas Yojana (PMAY) aims at Providing Housing for All (HFA) by 2022 when the Nation Complete 75 years of its independence.

The urban homeless persons contribute to the economy of the cities and thus the Nation as cheap labour in the informal sector; yet they live with no shelter or social security. The urban homeless service with many challenges like no access to elementary Public Services such as health, education, food, water and sanitation.

Pradhan Mantri Awas Yojana (PMAY) also aims at providing a pucca house to every family with water connection, toilet facilities, 24 X 7 electricity supply and access.

The Mission seeks to address the housing requirement of urban poor including slum dwellers through "In Situ" Slum Redevelopment, Affordable Housing through credit linked subsidy, Affordable Housing in partnership and subsidy for beneficiary led individual house. Under the mission, beneficiaries can take advantage under one component only.

Total beneficiaries of the scheme are **670** nos from 425 nos slum and 245 nos of Non Slum projected for the year 2017-18.

Total cost of the project is **Rs. 2712.16 lakhs** as per relevant department & P.W.D. schedule of rates.



## Introductory Note by Chairman

On the outset I would like to take this privilege to let know you that Barrackpore Municipality has finished the preparation of **Detailed Project Report (DPR) of Pradhan Mantri Awas Yojona (PMAY) for the year 2017-18**. The municipality has conducted introductory workshop of the Housing for ALL among the members of Board of councillors. Thereafter the core team has been formed for the preparation of the Plan. The Core team has organized several workshops, Focus Group Discussions, Ward Level Consultations among the people across the sections of the citizens



and the staff members of the municipality. Citizen, elected councillors and other stakeholders have had interactive sessions and opined about their need, demand, aspirations and the concerned personnel duly recorded those views. The **Detailed Project Report (DPR) for the year 2017-18** is the outcome of the series of Demand survey workshops, FGDs, Consultations and meetings. It has been compiled by the technical persons of Barrackpore Municipality which have eventually become the **Detailed Project Report (DPR)** of Barrackpore Municipality. The respected citizens expressed their valuable opinions and views. Again those views have been duly incorporated in the of **Detailed Project Report (DPR)** of Pradhan Mantri Awas Yojona (PMAY).

The people of the municipality, the elected councillors, the staff members, the surveyors, the technical persons have extended their fullest cooperation in preparing the whole process of **Detailed Project Report (DPR)**. I must take the opportunity to acknowledge their endeavours and extend gratitude to the authorities of SUDA and MA Department of Govt. Of W.B. for extending their cooperation.

I wish that this **Detailed Project Report (DPR) for the year 2017-18** would enable the ULB to undertake comprehensive, sustainable development of its jurisdiction with the growing demand of 21<sup>st</sup> century's modernized society.

  
Chairman

Barrackpore Municipality

Uttam Das

Chairman

Barrackpore Municipality

### Planning Core Team:

1. Mr. Uttam Das, Chairman, Barrackpore Municipality.
2. Mr. Debashish Ghosh Dastider, Vice Chairman Barrackpore Municipality.
3. Mr. Kausik Roy, A.E., Barrackpore Municipality.
4. Mr. Debabrata Dutta, Nodal Officer, Barrackpore Municipality.
5. Mr. Supriya Halder, S.A.E, Barrackpore Municipality.
6. Mr. Ashok Das, Clerk, Barrackpore Municipality.

**Annexure-7C**  
**(Para 14.5 of the Guidelines)**

**Format for Project under Beneficiary led Construction or Enhancement**

1	Name of the State	:	WEST BENGAL						
2	Name of the City	:	BARRACKPORE						
3	Project Name	:	HOUSING FOR ALL(U)						
4	Project Code	:							
5	State Level Nodal Agency	:	SUDA						
6	Implementing Agency / ULB	:	BARRACKPORE MUNICIPALITY						
7	Date of approval by State Level sanctioning and Monitoring Committee (SLSMC)	:							
8	No. of locations covered in project Covered = 21 No. of Slum No. of Non Slum Area Covered = 12	:	Name of Location BARRACKPORE MUNICIPALITY	No. of beneficiary Slum = 425 Non slum = 245	Whether Slum (Y/n) Yes	if yes, 1 if notified, 2 if recognised and 3 if identified (1) Notified		if slum, whether it gets completely rehabilitated Y/n Not Applicable	
9	Project Cost	:	2712.16						
10	No of Beneficiaries covered in the project	:	Gen	SC	ST	OBC	Total	Minority	Person with Disability
		:	455	60	2	153	670	141	0
11	Whether beneficiary have been selected as PMAY guideline? (Yes/No)	:	Yes						
12	No. of houses constructed / acquired Please specify ownership (any of these)	:	Joint (463)	Female (207)	Male (0)	Transgender (0)			
13	No. of beneficiaries covered in project	:	Male (463)	Female (207)	Transgender (0)				
14	Whether it has been ensured that selected beneficiaries have rightful ownership of the land	:	Yes						
15	Whether building plan for all houses have been approved	:	Yes						
16	i) Govt grant required (Rs. 1.5 lakh per eligible beneficiary) (Rs in Lakhs)	:	1005.00						
	ii) State grant, if any (Rs. in lakhs)	:	1416.38						
	iii) ULB grant, if any (Rs. in Lakhs)	:	123.28						
	iv) Beneficiary Share (Rs. in lakhs)	:	167.50						
	Total (Rs. in lakh)	:	2712.16						
17	Whether technical specification/ design for housing have been ensured as per Indian Standards/NBC/ State norms.	:	Yes						
18	Whether it has been ensured that balance cost of construction is tied up with State grant, ULB grant & beneficiary share?	:	Yes						
19	Whether trunk and line infrastructure is existing or being provisioned i) Water Supply (Yes/ No)	:	Yes						
	ii) Sewerage (Yes / No)	:	No						
	iii) Road (Yes / No)	:	Yes						
	iv) Storm Water Drain (yes/No)	:	Yes						
	v) External Electrification (Yes/No)	:	Yes						
	vi) Solid Waste Management (Yes/No)	:	Yes						
	vii) Any other, specify	:	No						
	viii) In case, any infirmary has not been proposed, reasons thereof.	:	Sewerage Scheme has not been proposed due to desired level of supply of water as CPHEEO norms has not been achieved.						
20	Whether disaster (earthquake, flood, cyclone landslide etc.) resistance features have been adopted in concept, design and implementation?	:	Yes						
21	Whether Demand Survey completed for entire city?	:	Yes						
22	Whether city-wide integrated project have been formulated? If not, reasons thereof.	:	Yes						
23	Whether validation with SECC data for housing conditions conducted?	:	Yes						
24	Whether Direct Benefit Transfer (DBT) of fund to individual bank account of beneficiary ensured in the project?	:	Yes						
25	Whether there is provision in DPR for tracking/ monitoring the progress of individual houses through geo-tagged photographs?	:	Yes						
26	Whether any innovation/cost effective/Green technology adopted in the project?	:	Conventional technology adopted						
27	Comments of SLAC after techno economic appraisal of DPR.	:							
28	Brief of project, including any other information ULB/State would like to furnish.	:							



\*State will give code number to each project sanctioned under HFA as 'ABCDEF GHIJKLM'

(Where 'AB' is State Code as per census 'CDEFGH' is city code as per census 'IJ' is running number of project of the city and 'K' is project component code i.e. 'k' will be 1-for in-situ- slum redevelopment, 2 -for Relocation 3- for AHP and 4-for Beneficiary led-Construction or enhancement) , 'L' will be N- for New, R- for Revised, 'M' will be running number which will be O for new and 1 and so on for revision.

It is hereby confirmed that State /UT/ and ULB have checked all the beneficiaries as per guideline of HFA. It is also submitted that no beneficiary has been selected for more than one benefit under the Mission including Credit Linked Subsidy Scheme (CLSS) component of the Mission.

  
Signature

Chairman/Chairperson/Mayor/Commissioner

Uttam Das

Chairman

Barrackpore Municipality

Signature

(State Level Nodal Officer)

  
Signature  
Chief Engineer  
Chief Engineer Directorate  
Deptt. of Municipal Affairs  
Govt. of West Bengal

Signature

(Secretary / Principal Secretary, Concerned Department)

## Executive Summery

### Project Details

1	State		: West Bengal
2	City		: Barrackpore Municipality
3	Project Name		: Pradhan Mantri Awas Yojana Housing for All (Urban)
4	Project Cost	(Rs. In Lacs)	: 2712.16
5	Central Share	(Rs. In Lacs)	: 1005.00
6	State Share	(Rs. In Lacs)	: 1416.38
7	ULB Share	(Rs. In Lacs)	: 123.28
8	Beneficiary Share	(Rs. In Lacs)	: 167.50
9	Total Infrastructure cost	(Rs. In Lacs)	: 246.56
10	Percentage of Infrastructure cost of Housing Cost		: 10.00 %
11	Infrastructure cost per dwelling unit	(Rs. In Lacs)	: 0.3680
12	Year of Implementation		: 2017-18
13	Component Housing construction		: Beneficiary Led Construction (BLC)
14	SOR Adopted		: PWD (WB) w.e.f 1.7.14 with current corrigendum.

### Project Contributions (Physical + Financial) (Rs. In lacs)

Sl No.	Scheme Component	Type	Quantity	Unit	Rate (in Rs./unit)	Proposed project cost (in lakh)	Appraised Project Cost (in lakh)	Central Share (@ Rs. 1.5 Lac/D.U.)	State Govt. Share (@Rs.1.93 Lac/D.U.)	ULB Share	Beneficiaries Share (@ Rs. 0.25 Lac/D.U.)
A. HOUSING											
1	New in- situ										
	Single storied units		670	Nos.	368000.00	2465.60	2465.60	1005.00	1293.10	0.00	167.50
	Total Housing Cost Sub Total (A)					2465.60	2465.60	1005.00	1293.10	0.00	167.50
B. INFRASTRUCTURE											
Sl No.	Scheme Component	Type	Quantity	Unit	Rate (in Rs./unit)	Proposed project cost (in lakh)	Appraised Project Cost (in lakh)	Central Share (in lakh)	State Govt. Share (@ 50%) (in lakh)	ULB Share (@ 50%) (in lakh)	Beneficiaries Share (in lakh)
1	Roads										
i	CC Roads	Cement Concrete	6318	Sqm	1736.00	109.68	109.68	0.00	54.84	54.84	0.00
2	Storm Water Drains										
i	Surface drain	Brick Masonry	5389	Mtr	2540.00	136.88	136.88	0.00	68.44	68.44	0.00
	Total Infrastructure Cost Sub Total (B)					246.56	246.56	0.00	123.28	123.28	0.00
	Grand Total (A+B)					2712.16	2712.16	1005.00	1416.38	123.28	167.50

Signature of the ULB Level Competent

Name & Designation:

Address:

Fax No: + 91-33-

Telephone No.: + 91-33-

Mobile No.:

E-mail:

Signature of the State Level Competent Technical

Name & Designation: **Chief Engineer**  
M.E. Directorate  
Engineering Dte, Govt. of West Bengal

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Fax No: +91- 33- 23375474

Telephone No.: +91-33-23371331

Mobile No.: (0)9475825219

E-mail: ce\_medte@yahoo.com

Signature of the State Level Nodal Officer

Name & Designation: **Sri**  
Director, SUDA

Address: State Urban Development Agency

Fax No: 91-33-23585767

Telephone No: + 91-33-23585767

Mobile No.: (0) 98

E-Mail: wbsudadir@gmail.com

Signature of the Chairman / CEO/Commissioner of ULB/

Name & Designation:  
Chairman, Barrackpore Municipality

Address:

Fax No.:

Telephone No.:

Mobile No.:

E-mail No.:

**Uttam Das**  
Chairman  
Barrackpore Municipality



## **Introduction to Barrackpore Municipality:**

Located on the eastern bank of River Hooghly, Barrackpore is one of the assiduous municipality situated about 18 kms from the State Capital Kolkata and 115 kilometers from Bangladesh border. Barrackpore is the headquarter of Barrackpore subdivision in North 24 Parganas district which is also known as industrial sub-division due to presence of number of Jute industries by the side of river Hooghly. The town was constituted as a municipality in 1869, but its area was curtailed by the separation of Titagarh municipality in 1895 and Panihati municipality in 1900. Barrackpore municipality was established in the year 1916 after splitting from the old municipalities named South Barrackpore Municipality comprising Barrackpore, Titagarh and Khardah areas.

The municipality currently comprises of a total area of 10.61 sq Km. extending over 24 administrative wards.

Owing to strategic location of the town on the industrial belt of Kolkata Metropolitan Area (KMA), barrackpore grown up as an industrial town with major industries like-jute mill, Textile machinery and Wagon factory, textile etc. Afterwards factories like ceramic factory, match factory, cosmetics factory, rubber industry, blade factory has developed over the period. Some house-hold industry like manufacturing of leather bags, foam bags & jute bags, ball pen and its parts has also be grown up and exported to different part of India.

The town is served by south-eastern railway at Barrackpore Station .The town is well connected kolkata and adjacent towns by Barrackpore Trunk Road, Barasat Road, Barrackpore Kalyani Expressway and Barrackpore Dum Dum Expressway etc. Besides roads and railways, the town is well connected to Hooghly district through its ferry services.





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## Abbreviations

<b>A&amp;OE</b>	Administrative and Other Expenses	<b>LIG</b>	Low Income Group
<b>AHP</b>	Affordable Housing in Partnership	<b>MD</b>	Mission Directorate
<b>AIP</b>	Annual Implementation Plan	<b>MoA</b>	Memorandum of Agreement
<b>BMTPC</b>	Building Materials & Technology Promotion Council	<b>MoHUPA</b>	Ministry of Housing and Urban Poverty Alleviation
<b>CDP</b>	City Development Plan	<b>MoU</b>	Memorandum of Understanding
<b>CLS</b>	Credit linked subsidy	<b>NA</b>	Non Agricultural
<b>CNA</b>	Central Nodal Agencies	<b>NBC</b>	National Building Code
<b>CPHEEO</b>	Central Public Health and Environmental Engineering Organisation	<b>NHB</b>	National Housing Bank
<b>CSMC</b>	Central Sanctioning and Monitoring Committee	<b>NOC</b>	No Objection Certificate
<b>DIPP</b>	Department of Industrial Policy and Promotion	<b>NPV</b>	Net Present Value
<b>DPR</b>	Detailed Project Report	<b>PLI</b>	Primary Lending Institution
<b>EMI</b>	Equated Monthly Installment	<b>RWA</b>	Residents' Welfare Association
<b>EWS</b>	Economically Weaker Section	<b>SECC</b>	Socio Economic and Caste Census
<b>FAR</b>	Floor Area Ratio	<b>HFAPoA</b>	Slum Free City Plan of Action
<b>FSI</b>	Floor Space Index	<b>SLAC</b>	State Level Appraisal Committee
<b>HFA</b>	Housing for All	<b>SLNA</b>	State Level Nodal Agency
<b>HFAPoA</b>	Housing for All Plan of Action	<b>SLSMC</b>	State Level Sanction and Monitoring Committee
<b>IEC</b>	Information Education & Communication	<b>TDR</b>	Transfer of Development Rights
<b>IFD</b>	Integrated Finance Division	<b>TPQMA</b>	Third Party Quality Monitoring Agency
<b>IIT</b>	Indian Institute of Technology	<b>ULB</b>	Urban Local Body
<b>IS</b>	Indian Standard	<b>UT</b>	Union Territory



## **Physical Features:**

### **(i) Location**

Barrackpore Municipality is located in the north-eastern suburbs of Kolkata (22.46°N 88.23°E), on the eastern bank of the river Hooghly. The Municipality is bound by:

- Bounded by Mohanpur & Patulia Gram Panchayat in the east.
- G.C Road bordering south
- Palta Canal in north.
- River Hooghly bordering along the western side

Geographically, the ULB is positioned in the northern part of Kolkata Metropolitan Area (KMA) .It has an average elevation of 12 metres from sea level.

### **(ii) Climate**

Barrackpore is located in the hot humid climate for about eight months starting from middle of March till the early November. Strong monsoon winds blowing from the South Bay of Bengal over this area from early June to early October, generates average rainfall of 150-200mm. Temperatures varying from minimum of 12-14 degrees to a maximum of 40 degrees – 42 degrees Celsius during summer. Thunderstorms, sometimes accompanied by hail are quite frequent at dusk during the months of April and May. The municipality experiences short winter with chilling dry wind coming from the northeast. It starts from middle of November and lasts up to the end of February with temperatures varying from a minimum of 7degrees – 10 degrees to a maximum of 25 degrees – 28 degrees Celsius and relative humidity between 50% in March and 90% in July.

### **(iii) Rainfall**

Maximum rainfall occurs during the monsoon in August (306 mm) and the average annual total is 1,582 mm. Total duration of sunshine is 2,528 hours per annum with maximum rainfall occurring in mid July/August.

### **(iv) Temperature**

Early morning mists are common in winter. The annual mean temperature is 26.8<sup>0</sup> C. The maximum temperature often exceeds 40<sup>0</sup> C. The temperature does not fall below 10<sup>0</sup> C.

## (v) Soil and Topology

Barrackpore is situated on the Eastern bank of Hooghly River of South Bengal and has an average elevation of 12 metres from sea level. The western side of the railway track is situated on the natural levee of the River Hooghly. The eastern side, away from the natural levee, is located on the natural topographical depression wherein majority of the low-lying vacant areas are present.

The general ground structure of Barrackpore is by and large composed of thick alluvial loam soil. The soil in most of this town is of clayey in nature with an outside strata or varying coat of two to three feet kankar or filled up surface. There is a layer of thick impermeable clayey strata at a depth of about 10 meters from the existing ground level. The town is having three major outlets namely Barrackpore Khal, Mohanpur & Patulia Gram Panchayat, river ganga. Its main drainage channels are Babanpur Canal at North, Ruia Khal at East, Talpukur Canal at south central zone and anti malaria canal at the southeast part of this municipality.

The urban sprawl that have already swallowed up the costly land over the last four decades. For efficient functioning of the municipality it is essential to use the urban land very carefully. The ULB should be very careful about selecting the land with determination of future uses like - residential, industrial, commercial, institutional mixed uses, organized open spaces and recreational spaces, transportation and finally conservation areas including potential agricultural land, along with we will have to protect the wetlands, waste recycling zones, water bodies and potential orchards as much as practicable.

The existing land use pattern in Barackpur Municipality shows a dominance of residential, followed by mixed use, road & transportation net work.

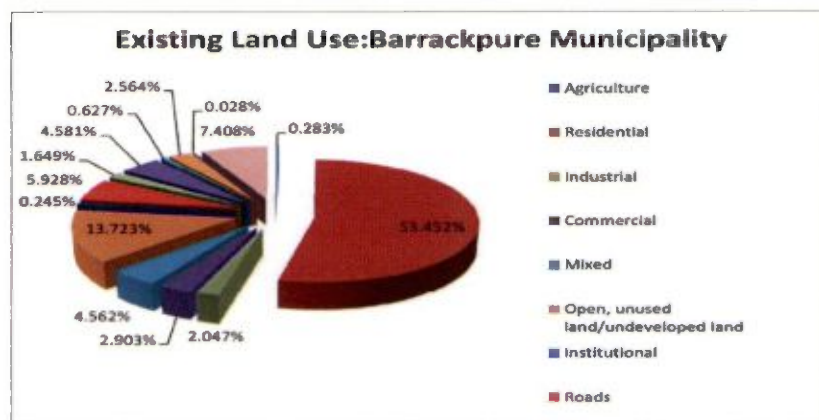
Of the total area 10.61 sq km, 5.6713 Sq Km (53.45%) is under residential, Vegetation 0.03 Sq Km (0.28%), Open, unused land/undeveloped land 1.456 Sq Km (13.72%), industrial 0.2172 Sq Km (2.05%), public and semi public 0.0665 Sq Km (0.63 %), water bodies 0.486 Sq Km (4.58 %), under commercial 0.308 Sq Km(2.90 %) and remaining in other use.

## (vi) Arterial Road & Major Roads:

There are several major roads as urban rural connectivity and also connectivity as more than one ULB. The function played by such roads as a corridor of local economic development. Some of such roads are maintained by PWD, Govt. of West Bengal and other roads are maintained by the ULBs & Panchayats in their respective jurisdiction. In most cases it appears that there is no linkage as well as coordination among the elected bodies to maintain the whole part of the roads at a time, ultimately the beneficiaries are suffering in case achieve the service.

The responsibility for maintenance of the roads which belong to the PWD are **S. N. Banerjee Road** (a major part of the road is named as 'Barrack Road' which is under jurisdiction of Barrackpore Cantonment, the rest of the road within the jurisdiction of this ULB and North Barrackpore Municipality is called as S. N. Banerjee Road) **Ghosh Para Road**: - This road starts from Barrackpore railway station and ends at Kalyani Ghosh Para. This is an important link for local economic development. A portion of the road is the only corridor for connecting Barasat, the district head quarter and other important places towards north. Barasat Road and Ghosh Para Road is the only connector between NH 34 and B.K. Expressway with the

Figure 1: Existing Landuse of Barrackpore



Source: CDP of Barracknore

B.T. Road. A project for construction of road over bridge on the railway track at 15 no. rail gate was announced by Public works Department. After implementation of that project the widening of the Ghosh Para Road will be the prime issue.

**Barrackpore Kalyani Expressway & Barrackpore Dum Dum Expressway:** - These roads pass through the eastern side of this ULB. These roads link the NH2 with the proposed Belgharia Expressway. There are some project proposals in the master plan within KMA. There are several

Connectors on either side of the roads serving different parts of the ULB and panchayats. These Connectors have no lights even at the important junctions. This was an important issue highlighted by various stakeholders in discussions. The roads within the Urban-Rural connectivity: - (i) Jaffarpore Rifle Range Road, (ii) Jaffarpore Road, (iii) Ruia Road, (iv) G.C. Road and (v) Old Calcutta Road. Most cases a portion of these roads is being maintained by this ULB, the major portions of these roads are under panchayat jurisdiction. According to the interaction with such authorities it appears that due to paucity of funds, improvements of such surfaces are not possible as required. There is need for planned maintenance of all roads.

### (vii) Wind

In the summer season winds are mostly North Easterly or easterly but in afternoon Westerly winds blow which are absorbed frequently. During the monsoons the winds blow from the Northeast and Southern direction.

## Population

<i>Demographic Data for Barrackpore Municipality</i>							
Year	Population	Area	Density	% Growth 81-91			
		(Sq. km)	(Pop/Sq. km)	Barrack pore	KMC	West Benga l	India
2001	144391	10.61	14, 399	6.78%	20.45	24.77	23.52
2011	152783	<b>Source : Percentage of growth rate - KMDA Vision 2025</b>					
2021	153623						
2031	154315						

As per Census 2011, total population of the Barackpur Municipality is 1.53 Lakhs. Total Municipality population has increased from 0.79 lakh, 1981 to 1.33 lakhs, 1991 to 1.44 lakhs, 2001 and 1.53 in 2011.

Decadal Growth of the Municipality has declined from 6.78% in 1991-1981 to 0.83% in 2001-1991 to 0.58% in 2011-2001. The declined growth in population may be due to natural control of population, out migration of the labour community due to closer of industries, less immigration due to lower opportunities of engagement, rentholders within municipality area shifted to elsewhere for permanent settlement, some of the households maybe absent during the census counting period.

Assuming present decline trend of decadal growth of population of the Municipality will continue and projected population of the municipality is assumed to be 1.536 lakhs, 2021 and 1.543 lakhs, 2031



## **Heritage & Culture**

Barrackpore was home to a number of significant members of the Indian independence movement, many of whom have memorials in the subdivision. Rastraguru Surendra Nath Bandyopadhyay, who was called the father of Indian Nationalist Movement, lived in Barrackpore. The house of surendranath at Monirampur of Barrackpore has been converted into the Rastraguru Surendranath Institute and Netaji Open University. Bengali author BharatChandra Ray Gunakar, known for writing Annada Mangal in the medieval period, lived at Mulajore. Gallantry Award winner Army Captain Shekhar Ghosh is also from Barrackpore.

## **Economic Activities**

The Calcutta Metropolitan Area is dominated by steel, coal based, Jute products industries. Barrackpore sub-division is known as industrial sub-division because in presence of jute industries by the side of River Hooghly. According to census of 1961, the percentage of worker engaged in manufacturing, processing etc. to the total main worker was 63% whereas in 1991 census the percentage reduced to 48.39%. From these data, it should be recorded that in space of time and modernization some of the major industries have already been closed, side by side new economic activities has grown up. As per census 1991, it is observed that 0.43% of total population engaged in primary sector, 13.96% engaged in Secondary sector and 14.09% engaged in tertiary sector. This township was grown up as an industrial town with major industries are-- jute mill, Textile machinery and Wagon factory, textile etc. Afterwards factories like ceramic factory, match factory, cosmetics factory, rubber industry, blade factory has developed. Some house-hold industry like manufacturing of leather bags, foam bags & jute bags, ball pen and its parts has also be grown up and a huge quantity of these type of products are exported all over India.

## **Occupational Profile**

### ***Year of establishment of Municipality***

Barrackpore Municipality was established in 1916.

### ***Administrative Boundaries***

Barrackpore is located on the eastern bank of River Ganga (Bhagirathi), 20 KM away from Kolkata, the Capital city of West Bengal. Latitude is 22°46' North and Longitude is 88°23' East. It is bounded on the south by the G.C. Road. On the west lie the river hooghly. North and East sides of this municipality are surrounded by Palta Canel, Mohanpur & Patulia Panchayet.

### ***Linkage of Rail, Road, Port & Air***

The city is connected to Kolkata by train. Barrackpore is the Railway Station. B.T. Road connects Barrackpore with Kolkata by Road. Beside B.T. Road, the other roads are Barasat Road, Barrackpore Kalyani expressway and Barrackpore Dum Dum Expressway. Beside the above mentioned system the people of Barrackpore use Ferry Service to communicate with Hooghly District.

## ***Demographic Growth & Population Projection***

Social and demographic profile of Barrackpore Municipality builds upon analysis of recent and past Census data of the district of North 24 Parganas, Barrackpore Municipality and comparable municipalities in its vicinity.

Census records show that district of North 24 Parganas has recorded a high growth of urban population of around 18.2% during 2001-2011 period. However, Barrackpore Municipality witnessed a growth of only 5.8% in the same period. The growth rate of the town shows a steady decline during last few decades .whereas in 1991-2001 the town witnessed a drastic fall in the population growth rate . The town population is accounting for 7% of the total district urban population and is relatively highest among the neighbouring municipalities like North Dum Dum (4%), Khardha (2%) and Kaamarhati (6%). Demographic overview of the municipality over the decades has been presented in the table below.

Table 1 : Overview Of Barrackpore Municipality

No.	Indicators	1991	2001	2011	2015 (P)
1.	Population (In Lakhs)	1.33	1.44	1.53	1.70
2.	Decadal Population Growth Rate	67.8%	8.3%	5.8%	11%
3.	No of HHs	-	31715	37312	41558
4.	Average Household Size	-	4.6	4.09	4.09
5.	Population Density (Persons per Sq. Km)	-	13608	14399	15612

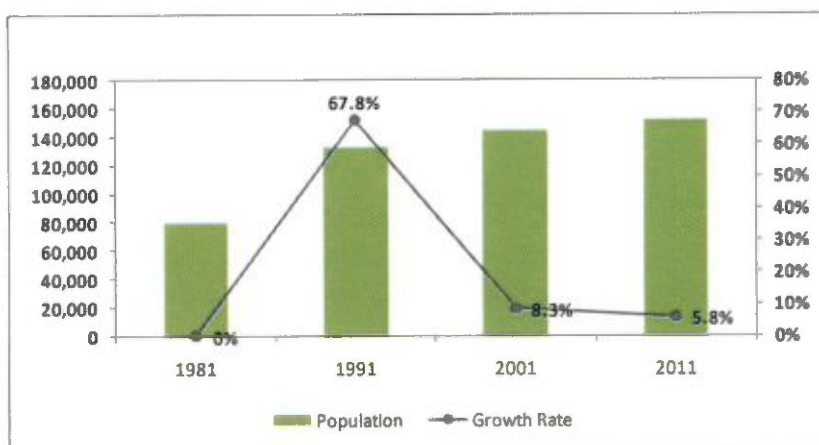
Source: Census Database; Population Projection

Overall population and the corresponding decadal growth rates of Barrackpore Municipality over the past 30 years have been presented in the figure below:

Following observations can be inferred from the table-3 and the figure alongside:

Figure 2: Population growth in Barrackpore Municipality

- Barrackpore grownup as rich industrial town with major industries are-jute mill, Textile machinery and Wagon factory, textile etc. Afterwards factories like ceramic factory, match factory, cosmetics factory, rubber industry, blade factory has developed.

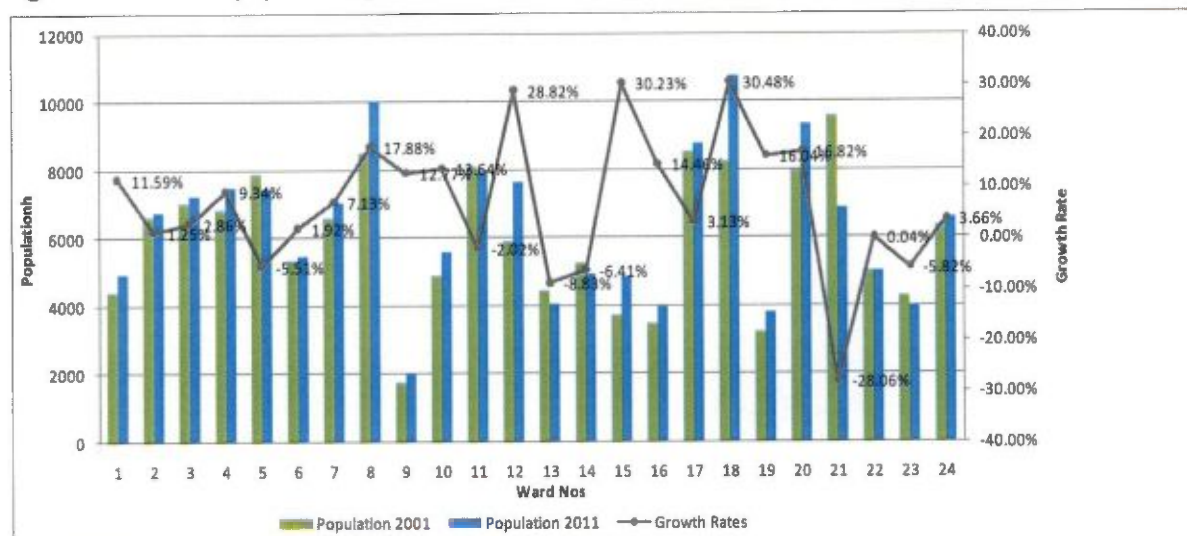


Source: ULB & Census of India

- Thus during its evolution ,the town witnessed a steady rise in population with high decadal growth rate due to inward migration of labour from various parts of the country on account of the setting up of number of industries.

- Population growth rate declined to as low as 60% during the period 1991 to 2001 primarily on account of over densification coupled with lockout of few sick manufacturing units in the city. This led to migration of people from the Municipality in search of better living space and employment.
- The projected population of Barrackpore as on 2015 is expected to be about 170170<sup>1</sup> with number of
- households estimated at 41558.

**Figure 3: Ward wise population growth In Barrackpore Municipality**



Ward wise analysis of population size clearly establishes the growth direction of the municipality explained in the earlier section. Figure 5 indicates that the ward no (3,4,5,7,8,11,12,17,18 &20) with highest population (average population size greater than 8000) mostly lie in the eastern part of the railway line.

- Likewise, the highest population growth in the past decade beheld in wards 12,15 & 18 (growth rate of above 26%) which lie in the south eastern part of the city. This is in sharp contrast to wards 5,11,13,14,21 & 23 that exhibits -ve growth in the past decade .

## Milstones:

### Auditorium :

**SukantaSadan:**Barrackpore Municipality has built up a modern Auditorium cum Conference Hall in the town at the junction of S.N.Banerjee Road and Ghosh Para Road very near to Barrackpore Railways Station. The Auditorium and its Hall is centrally air-conditioned and named Sukanta Sadan after the name of renowned Revolutionary Poet Late Sukanta Bhattacharya. It has as sitting accommodation for 1310 persons. The auditorium is brilliantly decorated and illuminated and is having modern acoustics system. Cultural functions like dance, drama, vocal and instrumental music etc. are organized here by various Clubs/Addociations/Organizations of

<sup>1</sup> The population for 2015 has been projected assuming an average annual growth rate based on the decadal growth rate observed since 1981-2011



Barrackpore town and adjoining the locality. Sukanta Sadan is also used for holding meetings/seminars/workshops/exhibitions.



Image:-1.1.2.9(W23)

### **Tourism :**

A stretch of land outside the jurisdiction of this ULB at the western side of B.K. Expressway and B.D. Expressway belongs to the Mohanpore Panchayat. However, the residents here expect that the ULB will provide them the basic amenities. This is a semi urban area and residents depend on the city for everything. It is proposed that this area be included within the ULB jurisdiction – the ULB can provide services to this pocket with the existing infrastructure.

**Tourism Corridor:** Being a historic town, there are some some heritage sites as well as some pilgrim centres within this municipality and adjacent areas. The places of interest are Shibashakti Annapurna Temple, Gandhi Ghat, Memorial of Mongal Pandey, North Gate Church, Hazarat Sayed Rahabar Sha Rahamatulla Majar, Gandhi Swarak Sangrahalay, Governor's house and House of Surendra Nath Banerjee. All such tourist and pilgrim centres are within a stretch of five kilometres. It is suggested that a tourism corridor be developed in association with the West Bengal Tourism development Corporation in this area. A ferry service can link the sites.

**Ambulance Facility :**

This corporation is providing Ambulance facility for carrying patients to Hospital within and outside Municipality area. This service is available from main administrative building at City Centre and from Maternity Centre.

**Health Service :** For the benefit of down trodden & weaker section of our society this Corporation has established Health units are as follows:-

- Health Centre
- Maternity Centre
- Diagnostic Centre
- Primary Health Posts

**Preservation of Surface Water:**

For eco-friendly environment and preservation of sweet potable water this corporation has stressed on Pond cutting for preservation of surface and rain water.

**Water Supply provided by KMDA**

**Surface Water Programme: Augmentation of BKP from 7.22-11.29 MGD:-**Barrackpore and North Barrackpore Municipalities are from part of Kolkatta Urban Agglomeration. Barrackpore Municipality was formed in 1916 whereas North Barrackpore Municipality was formed 1869. However, both the Municipalities do not have the fully developed water supply and sanitation services. The existing water supply in these Municipalities is sourced from gourd water through deep tube wells. It is supplied without any treatment except disinfection to the consumers. The services are limited to certain pockets and are provided for about 6 hours a day spread over the morning, afternoon and evening hours.

At present the total quantity of water supply available mainly from ground water sources is about 32.81 MLD ( 7.22 MGD) which is quite inadequate against the total requirement of 51.26 MLD( 11.29 MGD) water for about 3 lakhs present population.

Ground water in Kolkata UA is having the problem of high iron content and high content due to overexploitation. Ground subsidence is also noticed. In the neighbouring 24 Parganas District ground water contamination due to Arsenic is also recorded.

The combined population of these Municipalities as per 2001 Census is 2.68 lakhs which will increase to about 2.89 in 2007 as per projection. For the present population, the total water supply should have been about 45.64 MLD ( 10.04 MGD) as per the National norms given in the Manual on " Water Supply and Treatment " published by the Ministry. However, the total water supply at present is only 32.81 MLD ( 7.22 MGD) indicating a per capita water supply rate of about 90 lpcd( 2/3) against the required 135 lpcd.

Hence , it has become necessary for the Municipalities to augment the existing water supply system and also to switch over to treated surface water for providing reliable and quality water supply to the public.

Table:5.1 Water Demand Forecast in Trans Municipality area



Sl no	Name of unit	Area	Present total supplite (MLD)	Persent per capita (lpcd)	Census population in lakh	Projected population in lakh				Rate lpcd	Demand forecast(MGD, incl UFW,FD)		
		( Sq. Km.)				2001	2010	2025	2040		2010	2025	2040
1	Barackpore	10.61	15	75	1.44	1.59	1.82	2.05	135		25.15	29.8	33.4
2	North Barrackpore	12.22	17.81	101	1.24	1.41	1.78	2.24	135		23.45	29.2	36.3
Total		22.83	32.81	176	2.68	3	3.6	4.29			48.6	59	69.7

Source: Sectoral Plan, KMA

From the overall survey, consultations with the different agencies during Workshop-I and review of Master Plan in KMA 'Vision 2025', it appears that KMW&SA proposed to lay a sewer line, construct a pumping station and a sewage treatment plant under the Ganga Action Plan.

Other proposed projects to be implemented over the next 10 to 15 years are as follows: -

- Widening of Major Roads:- (i) B.T. Road, (ii) Barrackpore Kalyani Expressway, (iii) Barasat Road, Old Calcutta Road.
- A new road will be constructed connecting Old Calcutta Road and Barrackpore Dum Dum Expressway.
- A Over bridge will be constructed at Railway gate number 15.
- Maintenance and improvement of all outfalls caring storm water.

In addition an outer ring bus terminus, an intermediate truck terminal and area wide traffic engineering improvement at Chiriamore are also proposed in the perspective plan of KMA.

<b>IMPLEMENTING AGENCY</b>	KMDA.
<b>PRESENT STATUS</b>	Completed

- **Citizen Charter**
- **Double Entry Accrual Based Accounting System**
- **Birth & Death Certificate computerization system**
- **Tax collection computerization system**
- **Store computerization system**
- **70% increase in own source revenue**

### **Jawaharlal Nehru Nation Urban Renewal Mission ( Jnnurm )**

Government of India has decided to launch Jawaharlal Nehru Nation Urban Renewal Mission (JNNURM) with an aim to encourage reforms and fast-track planned development of identified cities. The focus is majorly on efficiency in urban infrastructure and service delivery mechanisms, community participation and accountability of ULBs / parastatal agencies towards citizens. Solid Waste Management Best performing city.



**Overview:**

It would be worthwhile to note that there are two submissions under JNNURM, Sub-Mission-I, titled Urban Infrastructure and Governance (UIG), will be administered by the Ministry of Urban Development through the Sub-Mission Directorate to deal with up-gradation/renewal of basic infrastructure in the selected cities and towns and implementation of various reforms pertaining to improved municipal governance including sustenance of development activities.

The Sub-Mission-II, titled Basic Services for Urban Poor (BSUP), will be administered by the Ministry of Urban Employment and Poverty Alleviation through the Sub-Mission Directorate to deal exclusively for urban poor living in slum/squatter settlements in cities and towns. The focus of BSUP is to improve the living conditions of the urban poor by way of providing housing along with infrastructure, with a view to gradually removing slums/squatter settlement from cities and towns.

The Government of India has identified 63 cities from India based on population which will get the benefit of JNNURM. From West Bengal two cities have been identified namely Kolkata and Asansol. In Kolkata there are 42 ULBs including 3 Municipal Corporations and in Asansol there are 5 ULBs including 2 Municipal Corporations. Kolkata Metropolitan Development Authority has been selected as State Level Nodal Agency (SLNA) to monitor JNNURM projects both for UIG and BSUP.

**The project slums and existing scenario of infrastructure:**

**Total Projects Detailed is given below:**

1	Name of the State		<b>WEST BENGAL</b>					
2	Name of the City		<b>BARRACKPORE</b>					
3	Project Name		<b>HOUSING FOR ALL BY 2022</b>					
4	Project Code							
5	State Level Nodal Agency		<b>STATE URBAN DEVELOPMENT AGENCY</b>					
6	Implementing Agency / ULB'		<b>BARRACKPORE MUNICIPALITY</b>					
7	Date of approval by State Level sanctioning and Monitoring Committee (SLSMC)							
8	Project Cost ( Rs in Lakhs)		2712.14					
9	No of Beneficiaries covered in the project		<b>Gen</b>	<b>SC</b>	<b>ST</b>	<b>OBC</b>	<b>Minority</b>	<b>Total</b>
								670
10	(i) No of Beneficiary ( New Construction )							670
	(ii) No of Beneficiary (Enhancement )							
11	Whether selected beneficiaries have rightful owner ship of the land?		Yes					

12	Whether the building plan for all houses have been approved?		Yes
13	(i) G.O.I grant required (Rs. 1.5 lakh per eligible beneficiary ) ( Rs. in lakhs)		1005.00
	(ii) State grant if any (Rs. in lakhs)		1416.37
	(iii) ULB grant if anybody (Rs. in lakhs)		123.27
	(iv) Beneficiary Share (Rs. in lakhs)		167.50
	(v) Total (Rs. In lakhs)		2712.14
14	Whether technical specification / design for housing have been ensured as per Indian standards /NBC/State norms?		Yes
15	Whether disaster (earth quake, flood, cyclone, land slide etc.) resistance features have been adopted in concept design and implementation?		Yes
16	Brief of project including any other information ULB/State would like to furnish.		Yes

25 nos Slums with number of beneficiaries 425 have been selected as a First Project for the year 2017-18 under PMAY scheme by Barrackpore Municipality in consultation with the state level Nodal Agency - The State Urban Development Agency (SUDA) under M.A. Department, GoWB.

**1. Barrackpore Nagar (Natun Para) Bustee (Slum Code:-10035):**

The project slum site is at the core area of the Municipality at Ward no-01. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 2000 square metres. The ownership of land lies with ULB. The existing number of households is 89. Proposal for Beneficiary Led Construction are 31 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

**2. Madhab Nibash Bustee ( Slum Code-10036):**

The project slum site is at the core area of the Municipality at Ward no-01. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 13000 square metres. The ownership of land lies with ULB. The



existing number of households is 63. Proposal for Beneficiary Led Construction are 22 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

### **3. Bijoy Garh Bustee ( Slum Code-10050):**

The project slum site is at the core area of the Municipality at Ward no-01. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 3000 square metres. The ownership of land lies with ULB. The existing number of households is 79 . Proposal for Beneficiary Led Construction are 26 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

### **4. Sahid Sarani Bustee(Slum code:-10019):**

The project slum site is at the core area of the Municipality at Ward no-02. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 8000 square metres. The ownership of land lies with ULB. The existing number of households is 149. Proposal for Beneficiary Led Construction are 25 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

### **5. Niranjn Nagar "A" Block Basti (Slum code:-1021):**

The project slum site is at the core area of the Municipality at Ward no-02. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 9000 square metres. The ownership of land lies with ULB. The existing number of households is 25. Proposal for Beneficiary Led Construction are 18 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others



engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

**6. Harekrishna Pally Bustee (Slum code-10044):**

The project slum site is at the core area of the Municipality at Ward no-02. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 3000 square metres. The ownership of land lies with ULB. The existing number of households is 40 Proposal for Beneficiary Led Construction are 28 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

**7. Bhooth Nath Bustee (Slum code-10051):**

The project slum site is at the core area of the Municipality at Ward no-02. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 3000 square metres. The ownership of land lies with ULB. The existing number of households is 41. Proposal for Beneficiary Led Construction are 26 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

**8. Sitalatala Govt Bustee (Slum code-10056):**

The project slum site is at the core area of the Municipality at Ward no-05. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 13000 square metres. The ownership of land lies with ULB. The existing number of households is 87. Proposal for Beneficiary Led Construction are 32 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

**9. Hembabur Bustee (Slum code-10094):**

The project slum site is at the core area of the Municipality at Ward no-5. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 9000 square metres. The ownership of land lies with ULB. The existing number of households is 86. Proposal for Beneficiary Led Construction are 23 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

**10. Shyamasree Pally Ghosh Para Bustee ( Slum code-10058):**

The project slum site is at the core area of the Municipality at Ward no-06. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 3000 square metres. The ownership of land lies with ULB. The existing number of households is 26 Proposal for Beneficiary Led Construction are 25 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

**11. Pal Para Bustee ( Slum code-10063):**

The project slum site is at the core area of the Municipality at Ward no-08. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 12000 square metres. The ownership of land lies with ULB. The existing number of households is 147. Proposal for Beneficiary Led Construction are 7 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads



within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated

**12. Panpara Adivasi Bustee ( Slum code-10066):**

The project slum site is at the core area of the Municipality at Ward no-10. Road condition is very poor in this slum and most of roads are Kutcha and Bitumious. The slums are 30 years old with a total site area is 5000 square metres. The ownership of land lies with ULB. The existing number of households is 30 . Proposal for Beneficiary Led Construction are 7 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated

**13. North Sita Parshi Bustee ( Slum code-10047):**

The project slum site is at the core area of the Municipality at Ward no-11. Road condition is very poor in this slum and most of roads are Kutcha and Bitumious. The slums are 30 years old with a total site area is 50000 square metres. The ownership of land lies with ULB. The existing number of households is 22. Proposal for Beneficiary Led Construction are 20 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated

**14. Panpara Veri Bustee ( Slum code-10067):**

The project slum site is at the core area of the Municipality at Ward no-11. Road condition is very poor in this slum and most of roads are Kutcha and Bitumious. The slums are 30 years old with a total site area is 17000 square metres. The ownership of land lies with ULB. The existing number of households is 27 . Proposal for Beneficiary Led Construction are 20 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads



within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated

**15. South Belayet Ali & A K Road Joint Bustee ( Slum code-10007):**

The project slum site is at the core area of the Municipality at Ward no-13. Road condition is very poor in this slum and most of roads are Kutcha and Bitumious. The slums are 30 years old with a total site area is 4000 square metres. The ownership of land lies with ULB. The existing number of households is 95 . Proposal for Beneficiary Led Construction are 5 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated

**16. P.K.Das Road Bustee ( Slum code-10039):**

The project slum site is at the core area of the Municipality at Ward no-13. Road condition is very poor in this slum and most of roads are Kutcha and Bitumious. The slums are 30 years old with a total site area is 2000 square metres. The ownership of land lies with ULB. The existing number of households is 24 . Proposal for Beneficiary Led Construction are 17 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated

**17. A.K.Road Bustee Beside Hapco ( Slum code-10040):**

The project slum site is at the core area of the Municipality at Ward no-14. Road condition is very poor in this slum and most of roads are Kutcha and Bitumious. The slums are 30 years old with a total site area is 2000 square metres. The ownership of land lies with ULB. The existing number of households is 302 . Proposal for Beneficiary Led Construction are 15 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads

within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated

**18. Mondal Para Bustee-1 ( Slum code-10040):**

The project slum site is at the core area of the Municipality at Ward no-17. Road condition is very poor in this slum and most of roads are Kutcha and Bitumious. The slums are 30 years old with a total site area is 2000 square metres. The ownership of land lies with ULB. The existing number of households is 86 . Proposal for Beneficiary Led Construction are 27 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated

**19. Jethnibagan North Side Bustee ( Slum code-10086):**

The project slum site is at the core area of the Municipality at Ward no-17. Road condition is very poor in this slum and most of roads are Kutcha and Bitumious. The slums are 30 years old with a total site area is 36000 square metres. The ownership of land lies with ULB. The existing number of households is 72 . Proposal for Beneficiary Led Construction are 27 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

**20. Rashmani Ghat Bustee ( Slum code-10011):**

The project slum site is at the core area of the Municipality at Ward no-20. Road condition is very poor in this slum and most of roads are Kutcha and Bitumious. The slums are 30 years old with a total site area is 11000 square metres. The ownership of land lies with ULB. The existing number of households is 47 . Proposal for Beneficiary Led Construction are 2 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing



huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated.

**21. Khathik Para Bustee ( Slum code-10089):**

The project slum site is at the core area of the Municipality at Ward no-21. Road condition is very poor in this slum and most of roads are Kutchha and Bitumious. The slums are 30 years old with a total site area is 3000 square metres. The ownership of land lies with ULB. The existing number of households is 60 . Proposal for Beneficiary Led Construction are 22 dwelling units for the year 2017-18. Most of the slum dwellers works as casual labour in local industries, others engaged in local housekeeping, as sweepers in local areas, as cleaners at Municipal area and as vegetable sellers in nearby areas.

The environmental condition in the slums is little bit poor. The slum is partially covered with surface drains but drains are tilted and broken condition resulting clogging. Most of the roads within slums are semi metallic or kuchha road. There is 100% street lights present in the slum. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health. The site visit has revealed a unhygienic condition prevailing there at present due to absence of any organized structures and infrastructure for keeping them. Most of the dwelling units are kaccha or dilapidated



## **National Poverty Alleviation Programmes and PMAY**

Slum: the focus Area

Under section-3 of the Slum Area Improvement and Clearance Act, 1956, slums have been defined as mainly those residential areas where dwellings are in any respect unfit for human habitation by reasons of dilapidation, overcrowding, faulty arrangements and designs of such buildings, narrowness and faulty arrangement of streets, lack ventilation, light or sanitation facilities or any combination of these factors which are detrimental to safety, health and morals. Thus, conceptually slums are compact overcrowded residential areas (and not isolated or scattered dwellings) unfit for habitation due to lack of one or more of the basic infrastructure like drinking water, sanitation, electricity, sewerage, streets etc.

It is in this background that in the 2001 Census, an innovative attempt was made to collect demographic data slum areas across the country.

As per 2001 population census, the slum population is estimated to be 61.8 million, out of a total urban population of 285.35 million people reside in urban areas.

The analysis of the data in this report provided an overview of the population characteristics of slums and squatter settlements and is expected to serve as a benchmark for pragmatic and realistic town planning while dealing with the issue of slums and slum dwellers.

### ***Background***

- i. Urbanization is fast becoming the defining process in shaping the course of social transformation & ensuing development concerns in India. About 377 million persons or about 31% of India's population of 1.21 billion lived in urban areas in 2011, spread over 5161 towns.

As per Report on Indian Urban Infrastructure and Services (NIUA) Report, the urban population is likely to grow to about 600 million by 2031. About one-fourth (24%) of the urban population of India is poor i.e. their expenditure on consumption goods is less than the poverty line benchmark. The benefits of urbanization have eluded this burgeoning 67 million urban poor population, most of who live in slums. An analysis of population growth trends between 1991 and 2001 shows that while India grew at an average annual growth rate of 2%, urban India grew at 3% mega

cities at 4% and slum populations rose by 5%. This rapid and unplanned urbanization and simultaneous growth of urban population in the limited living spaces has a visible impact on the quality of life of the slum dwellers of the city.

- ii. It is increasingly clear that sustainable growth can only take place when it is inclusive and when the entire population including the poor and marginalized need to have at the least access to decent shelter, basic amenities, livelihoods and a voice in governance.\* Keeping this in mind the Government of India and the various State Governments have been taking up several schemes on partnership mode.

### **National Missions for Slum Development and Poverty Reduction**

- i. The Government of India is committed to creating a slum free India as part of the Jawaharlal Nehru National Urban Renewal Mission (JNNURM) sub mission on Basic Services for the Urban Poor (BSUP). More recently it has also launched the Pradhan Mantri Awas Yojana (PMAY) for providing Housing for All (HFA) by 2022 when the Nation Complete 75 years of its independence.
- ii. **Jawaharlal Nehru National Urban Renewal Mission (JNNURM) :** JNNURM is a reform- linked urban development and slum upgrading program. Under JNNURM, the Government of India has been providing central assistance to 65 metro and large cities to invest in infrastructure improvements with governance reforms under sub mission on Urban Development.
- iii. **Basic Services for Urban Poor (BSUP) :** BSUP is focussed on slum upgradation and poverty reduction through creating access and networking slums to urban infrastructure improvements. BSUP also has a 7-Point Charter that envisages integration of urban slum upgrading activities with social development programs/missions such as for health, education, social welfare, etc. to ensure comprehensive development.
- iv. **Swarna Jayanti Shahri Rozgar Yojana (SJSRY) :** SJSRY is a centrally sponsored program and it mainly emphasizes on the poverty reduction through employment generation. Main target groups of the program are: Urban poor, Women, SC/ST,

Disabled etc.

- v. **National Slum Development Program (NSDP):** NSDP is a centrally assisted slum

development program. NSDP is mainly for improvement in the environment in the slums as a broader objective through provision of infrastructure facilities and shelter for improving living conditions in the slums.

- vi. **Valmiki Ambedkar Awas Yojana (VAMBAY):** VAMBAY is a central Government scheme to provide housing to the poor. Under VAMBAY scheme, an amount of Rs. 50,000 is extended to a beneficiary in a city with more than 10 lakhs population while in the cities having population less than 10 lacs. each beneficiary gets Rs. 40,000/- fifty percent of the amount is central government grant while the rest could be taken as loan from HUDCO/ other nationalized banks/ state government/ urban local bodies.

- vii. **Integrated housing and slum development program (IHSDP):** IHSDP was under Jawaharlal Nehru Urban Renewal Mission (JNNURM) beginning from the year 2005-2006. The major objectives for the IHSDP program are:-

- ☐ Focussed attention to integrated development of basic services to the poor. The basic services include security of tenure at affordable price, improving housing, water supply and sanitation.
- ☐ Secure effective linkages between asset creation and asset management so that the basic services to the urban poor created in the cities, are not only maintained efficiently but also become self sustaining over time.



## **HFAPoA and Pradhan Mantri Awas Yojana (Housing for All)**

To give pucca house for every family is currently on the global agenda. One of the Millennium Development Goals (MDGs) is to 'achieve significant improvement in the lives of slum dwellers, by 2022'. Similar goals are set forth by Pradhan Mantri Awas Yojana in 2022, to create pucca house for every family.

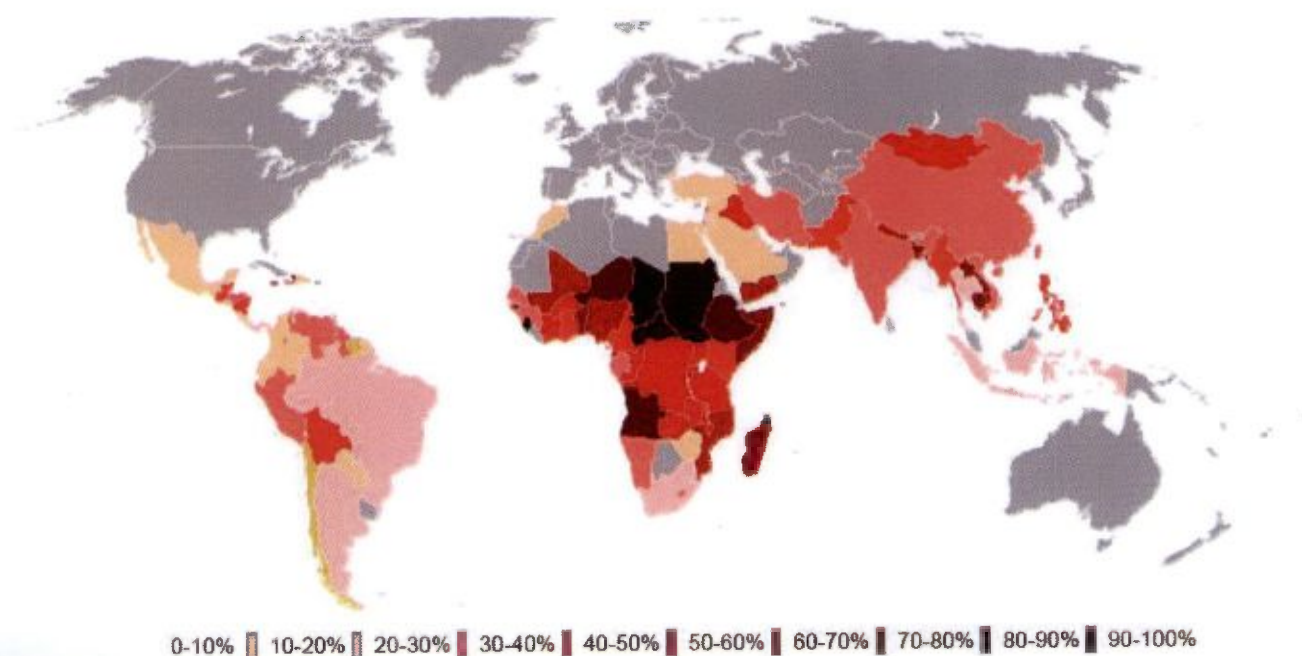
ULB undertake a demand survey through suitable means for assessing the actual demand of housing. While validating demand survey, Cities should consider possible temporary migration from rural areas to the city just to take advantage of housing scheme and exclude such migrants from list of beneficiaries. On the basis of demand survey and other available data, cities will prepare Housing for All Plan of Action (HFAPoA). HFAPoA should contain the demand of housing by eligible beneficiaries in the city along with the interventions selected out of four verticals. The information regarding beneficiaries should be collected by ULB in suitable. While preparing HFAPoA, ULB and Implementing Agencies should also consider the affordable housing stock already available in the city as Census data suggests that large number of houses are vacant.

Bank account number and Aadhaar number/Voter ID card/any other unique identification details of intended beneficiaries or a certificate of house ownership from Revenue Authority of beneficiary's native district will be integrated in the data base of HFAPoA for avoiding duplication of benefit to one individual family. Beneficiaries will be validated by ULBs thereby ensuring their eligibility at the time of preparation of the projects and approval of projects.

On the basis of HFAPoA, States/Cities will subsequently prepare the Annual Implementation Plans (AIPs) dividing the task upto 2022 in view of the availability of resources and priority. For larger cities, HFAPoA and AIPs can be prepared at sub-city (ward/zone etc.) level with the approval of concerned State/UT Government. The result of demand survey, draft HFAPoA and draft AIP should be discussed with the local representatives including MLAs and MPs of that area so that their views are adequately factored in while finalising the plans and beneficiary list.

Cities which have already prepared Slum Free City Plan of Action (SFCPoA) or any other housing plan with data on housing, should utilise the existing plan and data for preparing "Housing for All Plan of Action" (HFAPoA). Houses constructed under various schemes should be accounted for while preparing HFAPoA

## Urban Population Living in Slums and the Indian Scenario (source: UN-HABITAT)





## **The preparation of HFAPoA will broadly involve Slum Development/Rehabilitation Plans based on**

- a. Survey of all slums – notified and non-notified;
- b. Mapping of slums using the state-of-art technology;
- c. Integration of geo-spatial and socio-economic data; and
- d. Identification of development model proposed for each slum.

1. Base maps to an appropriate scale would be a pre-requisite for the preparation of Slum Development Plan/Slum-free City Plan. States/UTs may need to proceed in the following steps for the preparation of Slum-free City Plans.
2. Securing CARTOSAT II/latest satellite images from NRSC/ISRO and preparation of base maps for the whole city and its fringes using the images;
3. Identification and inventory of all slum clusters of all descriptions in the urban agglomeration with the help of satellite image and other available data;
4. Inventory of all possible vacant lands in each zone of the urban agglomeration that could be used for slum development/ rehabilitation development purposes;
5. Development of Slum Map of every slum within the city and its fringes using GIS with CARTOSAT II images, ground level spatial data collected through total station survey, collating spatial information with respect to plot boundaries, network of basic infrastructure like roads, sewerage, storm drainage and water lines, etc and superimposing this on the satellite image and importing them into GIS platform as the first step towards the preparation of Slum Development Plans and Slum Free City Plan.
6. This may be undertaken with the help of technical partners of NRSC/ ISRO/other technical institutions/agencies;
7. Identification and engagement of Lead NGO/CBO to guide and anchor community mobilization for the purpose of slum survey, (May be more than one NGO/CBO in different slum zones) of the city. These Lead NGOs/CBOs should also be associated in slum survey operations and dialogues for preparation of slum level development plans;
8. Conduct of Slum Survey based on the detailed formats (with or without changes) prepared by the Ministry of Housing & Urban Poverty Alleviation with the help of

National Buildings Organization (NBO) - after due training of trainers, training of survey personnel / canvassers and canvassing. It would be helpful for community mobilization to pick as many canvassers from the sourced slum or nearby slum pockets;

9. Collection of bio-metric identification data of slum dwellers based on the above survey (subject to guidelines issued by Unique Identity Authority of India (UIDAI));
10. Entry of data from Slum Surveys in the web-enabled MIS application (to be provided by Ministry of HUPA), compilation and collation of data, preparation of Slum-wise, City and State Slum Survey Database and Baseline Reports. The MIS will assist in developing a robust Slum and Slum Households Information System. (Guidelines and software for development of the MIS will be issued by the Ministry of HUPA);
11. Integration of Slum MIS with GIS Maps to enable the preparation of GIS-enabled Slum Information System that is to be used for the preparation of meaningful Slum Development Plans and Slum-free City Plan using a city-wide/zone-based approach. (Guidelines and software for development of GIS platform and its integration with the MIS will be issued by the Ministry of HUPA);
13. Preparation of Slum-free City Plan should be based on the development plans for all slums and strategies for the prevention of future slums, including reservation of land and housing for the urban poor. The Plan should contain timeline of activities for achieving slum-free city, phasing information and financial estimates against each of the activities

## **Introduction to Pradhan Mantri Awas Yojana (PMAY)**

Pradhan Mantri Awas Yojana (PMAY), a path breaking scheme for the slum dwellers and urban poor envisages a 'Pucca house to every family' through encouraging States/Union Territories to tackle the problem of slums in a holistic manner. It calls for a multi-pronged approach focusing on:

- ☐ Bringing existing slums within the formal system and enabling them to avail of the same level of basic amenities as the rest of the town.
- ☐ Redressing the failures of the formal system that lie behind the creation of slums.
- ☐ Tackling the shortages of urban land and housing that keep shelter out of reach of the urban poor and force them to resort to extra-legal solutions in a



bid to retain their sources of livelihood and employment.

- ☐ Enactment of a set of reforms at the state and city level related to inclusive planning, regulation and financing, which would ensure that adequate fresh housing stock and services get created on an ongoing basis to address both current and future needs of cities.
- ☐ An integrated approach covering shelter, services and livelihoods for poor slum communities.

***The duration of Pradhan Mantri Awas Yojana [PMAY] 2015 TO 2022***

**iv. *Eligible Components of the PMAY:***

A EWS beneficiary family will comprise husband, wife and unmarried children.

The beneficiary family should not own a pucca house (an all weather dwelling unit) either in his/her name or in the name of any member of his/her family in any part of India. to be eligible to receive central assistance under the mission.

EWS households are defined as households having an annual income up to Rs.3,00,000 (Rupees Three Lakhs). States/UTs shall have the flexibility to redefine the annual income criteria as per local conditions in consultation with the Centre.

Projects pertaining to the following will not be considered for support under PMAY:

1. Water connection
2. Toilet facilities
3. 24 x 7 Electric facilities
4. Roads

***Need for Projects***

The projects are needed to fully understand and develop redevelopment models that can be replicated in the city with benefits. One of the key objectives of developing The Projects is to incentivize innovation and encourage new approaches and solutions that can demonstrably improve the quality and quantity of shelter and services for the poor.

Such innovation could encompass:

- ☐ Projects with strong community participation i.e. Slum upgradation/redevelopment projects initiated/spearheaded by the community; or with their demonstrable involvement and participation in design, planning and implementation
- ☐ Creation of fresh rental housing stock and transit shelters
- ☐ New models of public-private partnerships whereby the private sector can be encouraged to take up affordable housing for the EWS/LIG
- ☐ Innovations in planning, demonstrating integrated livelihoods, shelter and services; or convergence
- ☐ Innovative or cost effective and green building design and technologies
- ☐ Financial innovations in delivering the city/state wide programme

### ***Aims and Objectives Vision***

The mission seeks to address the housing requirement of urban poor including slum dwellers through following programme verticals:

- Slum rehabilitation of Slum Dwellers with participation of private developers using land as a resource
- Promotion of Affordable Housing for weaker section through credit linked subsidy
- Affordable Housing in Partnership with Public & Private sectors
- Subsidy for beneficiary-led individual house construction

### **Objectives**

The project has been designed keeping in mind the following objectives.

- ☐ Integrated development of all existing slums, notified or non-notified, i.e., development of infrastructure and housing in the slums/rehabilitation colonies for the slum dwellers/urban poor, including rental housing.
- ☐ Development/improvement/maintenance of basic services to the urban poor, including water supply, sewerage, drainage, solid waste management, approach and internal road, street lighting.
- ☐ The Creation of affordable housing stock, including rental housing with the provision of civic infrastructure and services, on ownership, rental or rental-



purchase basis.

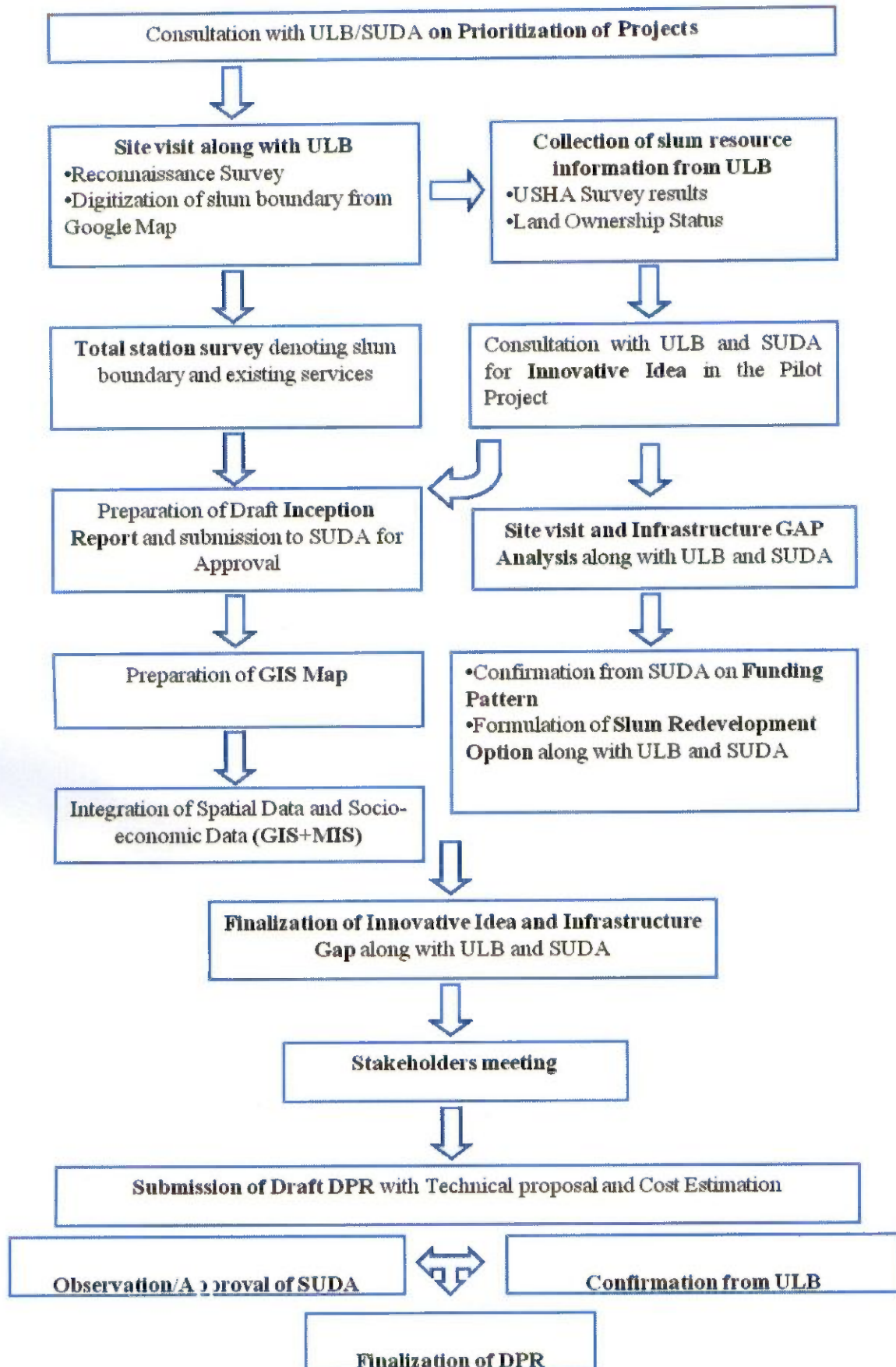
- ☐ Encouraging Public Private Partnership by having pay and use toilets and educate the slum dwellers for keeping the environment clean and hygienic.

### **State PMAY Mission Director**

The Nodal Ministry and National Mission Directorate is Ministry of Housing & Urban Poverty Alleviation, Government of India.

The Nodal Department for West Bengal is Municipal Affairs Dept. (M.A. Department), Government of West Bengal. The state level Nodal Agency is State Urban Development Agency (SUDA) under M.A. Department. State Urban Development Agency was set up in 1991 with a view to ensuring proper implementation and monitoring of the centrally assisted programmes for generating employment opportunities and alleviation of poverty throughout the State. SUDA is a Society registered under the West Bengal Societies Registration Act, 1961.

## Methodology for Preparation of DPR





## **Funding Pattern of PMAY**

Support from Central Government shall include -

- ☐ 1.5 LAKHS of total cost of dwelling unit
- ☐ State + ULB to bear the cost of infrastructure
- ☐ State share for infrastructure to be minimum 5%
- ☐ Cost of infrastructure 10 % of sum total cost of dwelling unit
- ☐ Cost of capacity building 5 % of sum total cost of dwelling unit

## **Approvals & Release of Funds**

- ☐ Releases and approvals to be on the basis of DPRs which need to be submitted with approval of State Level Sanctioning and Monitoring Committee
- ☐ Innovative projects to be considered for sanction even in the preparatory stage
- ☐ Central Funds to be released in 3 installments to the State Governments/SLNA;
- ☐ First Installment – after sanction of DPR and on submission of financing plan for State/ULB share for the project
- ☐ The subsequent installments on receipt of Utilization Certificate for 70% of the earlier release;
- ☐ 3 Mandatory reforms within 1 year of DPR sanctions

## **Status of existing infrastructure & services**

**Municipality**, with its elected local body in place, has developed institutional strength to implement, operate & maintain proposed infrastructure. The Municipality spreading over an area of 10.61 square kilometres is comprised of 24 wards. With efficient and trained manpower, the Municipality has developed both technical and administrative skills. The development of appropriate municipal organizational structures with qualified staff is essential if municipalities are to provide cost effective services to citizens. With local government reform municipalities are required to take on new tasks, and provide new services. This will only be possible if municipalities have cost-effective and appropriate structures and staff that are well qualified and highly motivated. The municipalities should plan in such a way so as to ensure that they can meet the needs of citizens effectively and

efficiently.

### Demographic features of the Barrackpore Municipality :

Sl.no	Indicator	2001*	2011*
<b>1</b>	<b>Area (in SqKm)</b>		
<b>1.1</b>	Planning Area (Sq. Km )	10.61	10.61
<b>1.2</b>	Municipal Area (Sq. Km)	10.61	10.61
<b>1.3</b>	Area of Slums (Sq. Km)	1.44	1.44
<b>2</b>	<b>Number of Municipal Wards</b>	24	24
<b>3</b>	<b>Population and Households</b>		
<b>3.1</b>	Total Population (2001/ 2011 census) (no's in millions)	144391	152783
<b>3.2</b>	Number of Households (2001/2011 census)	31715	37312
<b>3.3</b>	Density of Population	13609	14400
<b>3.4</b>	Slum households as percentage of total Households in city (2001 / 2011 census)	3%	12%
<b>3.5</b>	Current (2015) Population (Year of Survey) (no's in millions)	170170(projected)	
<b>3.6</b>	Current Number (2015) of Households (Year of survey)	41558(projected)	
<b>3.7</b>	Slum HHs as per Demand survey(2015)	5835	
<b>3.7</b>	Slum HHs as percentage of total HHs in city (projected HHs 2015)	7%	

Source

e:- Municipal Data

### Urban Services

Role of various agencies engaged in urban sector related services whose jurisdiction includes ULB (Urban Local Bodies).

<b>Water Supply</b>	<b>ULB</b>
<b>Solid Waste Management</b>	<b>ULB</b>
<b>Electricity &amp; Street Lighting</b>	<b>WBSEDCL, DPL, DSP, ULB</b>
<b>Sewerage</b>	<b>ULB</b>
<b>Roads</b>	<b>ULB</b>
<b>Drains</b>	<b>ULB</b>
<b>Health Services</b>	<b>ULB</b>
<b>Education Services</b>	<b>ULB</b>
<b>Social Welfare Services</b>	<b>ULB</b>
<b>Sports &amp; Games</b>	<b>ULB</b>

<b>Building Plan</b>	ULB
<b>Urban Planning</b>	ULB

## Water Supply

In the primitive stage of the Municipal Corporation, main source for the supply of drinking water was the river Ganga that is within easy reach to all the residents of this Municipal area.

Detailed of water supply is given below

	<b>Water Supply : -</b>	<b>Statistics</b>
1	No. of Water Treatment Plant	Nil
2	No. of Deep Tube well	37
3	No. of Hand Tube well	440
4	No. of Street Stand post	540
5	Length of Water pipeline (in kilometer)	140.5
6	No. of Underground Reservoir	Nil
7	No. of Overhead Reservoir	4
8	No. of wards fully covered with water supply pipeline	24
9	No. of houses connected with Water Supply Network	21005
10	Who is maintaining water supply – Municipality / PHE Dept./ KMDA / KMWSA	Municipality

Source:- Municipal Data

## Drainage & Solid Waste Disposal

### Drains

Municipality being the city of the civic amenities of different company/ plant townships are taken care by the respective company/ plant authorities. However, there are civil localities such as the area around the railway station (what was the original Municipality. Since inception total 240 Km Surface drain has been built up. However providing more effective drainage system is the goal of the ULB.

Detailed of Drain is given below

	<b>Drain</b>	<b>Statistics</b>
16.1	Length of Kutchha Drain (in km.)	9.416
16.2	Length of Pucca Drain(in km.)	156.152
16.3	Length of underground / covered Drain (in km.)	00
16.4	Total length of Drain (in km.)	165.568
16.5	No. of wards fully covered with Pucca Drain	00
16.6	No. of wards partly covered with Pucca Drain	24

Source:- Municipal Data



## **Solid waste disposal**

The multifarious types of wastes arising out of human & animal activities that are normally solid in nature and are being discarded as useless are considered as solid waste. Now Solid Waste Management is defined as the method to solve some specific problems of solid waste with its different functional elements. Municipality has four steps of Solid Waste Management.

Waste generated within the municipal boundary is around 50-60 MT, 2014, of this total quantity, 95% of the wastes are collected by the municipality and the rest 5% remains uncollected. Projected generation (at present rate based on projected population) is more than 70 MT in 2021 and 100 MT in 2031.

### **Status of Slums under Municipality**

- i. As per the available data, the total number of people living in 15 slums amounts to 1275.12 covering an area of 0.145 sq.km. Thus over 1.374 percentage of Municipality's population resides in slums, squatters and other poor settlements. Their contribution to city's economy has been also been growing over the period.
- ii. In the absence of a focused program and in a background of ever-increasing urbanisation, the slum dwellers continue to be deprived of access to basic services, socio- economic needs. The problems are multiplied by increasing migration. It is necessary, therefore, to develop clear-cut strategies, Programmes and action plans to provide the basic Services to the Urban Poor.
- iii. Municipality is basically a town and has been having substantial industrial and economic growth over the years. This has resulted in substantial growth in population triggered off by substantial migration. Continued influxes of migrants have resulted in mushrooming of slums and squatter settlements. Quality of life has thus suffered and the gaps between the demand and supply of essential services and other infrastructures have widened many fold.
- iv. Slum settlements have multiplied over decades and the living conditions of the poor have not improved. Environmental decline, vehicular pollution, inadequate basic services and infrastructure in the poor settlements hit the poor hardest. Slums are scattered across the city occupying both private land and lands belonging to various public entities. However, they were neither adequate nor did they have proper ventilation or hygiene.

Lack of sufficient ventilation in the rooms, low and damp floor levels, congestion, want of proper drainage, and general unhygienic conditions from the characteristics common feature of these bustees. Privy accommodation in many cases is far too inadequate considering the number of the inmates. Through the service privies have been converted, but

the numbers are not increased. In fact the slums found in Barrackpore Municipal area.

- ☐ Firstly slums that grew up in the own lands of the dwellers but have no civic amenities, which are basically found in the listed 15 slums.

## Slum Infrastructure Improvement Plan

The development objectives are:

- ☐ Ensure basic infrastructure services to all slums to provide better quality of life by giving emphasis on water supply and sanitation.
- ☐ Ensure maintenance of the asset created locally by ensuring collection of user charges locally and to enhance community participation.
- ☐ Ensure regular water supply and safe drinking water.
- ☐ To improve drainage system removing water logging in the slum.
- ☐ To ensure timely disposal of garbage of the slum.
- ☐ To provide housing for the dwellers of the slum.
- ☐ To provide streetlight facilities in the slum area.
- ☐ To provide road, community bathroom, community toilet and community seva kendra.
- ☐ To ensure economic upliftment

City Level Number of notified and non-notified slums					
City	No. of Non-Slums	No. of Notified Slums	No. of Notified	% Proportion of Slums	
				No. of Notified Non-Slums	No. of Notified
Municipality	24	21	21	0%	100%

### Key Findings – Slums under Municipality :

#### Water Supply:

The main source of water supply in Municipality Municipal area is surface water of River Ganga. Besides that another source is canal, which is used for different purposes except drinking purpose. Like other areas slum dwellers also use the ground water through street tap, municipal pipeline.

#### Sanitation:

This is one of the most important services to be provided in the slum. Most of slum dwellers use community latrine.

**Drainage system:**

In this slum there is insufficient drainage network. These areas are generally low and having water logging problems. Drainage network within the slum is to be designed. This system is to be connected to the main drain network of the ULB. Thus in most cases drainage system will not be effective without this development.

Most households, mainly in the added areas, have made kaccha outlets from their premises that permit wastewater to flow out in to the street. All the kaccha and pucca drains are connected with approach drain. Most of the drains are filled with waste materials of the slum. As a result, the situation becomes even worse during the monsoons. Most of the drains are in overflow and water logged in slum areas.

Slums of Municipality have both type of drainage system i. e. kaccha and pucca.

**Solid waste management:**

There is no door to door waste collection in this municipal area as well as slum areas. BWMC held meeting for the campaigning of the system. Proposal for solid wastes collection has taken in all over the municipal area as well as in the slums.

**List of slums under Barrackpore Municipality :**

SL NO.	Ward Number	Slum Code	Slum Name	Number of total Households(Including pucca )	AREA in Sq Mt
1	1	10035	Barrackpore Nagar (Natun Para) Bustee	63	20000
2	1	10036	Madhab Nibash Bustee	107	13000
3	1	10050	Bijoy Garh Bustee	35	3000
4	2	10019	Sahid Sarani Bustee	149	8000
5	2	10021	Niranjan Nagar "A" Block Basti	111	9000
6	2	10044	Harekrishna Pally Bustee	28	3000
7	2	10051	Bhooth Nath Bustee	33	3000



SL NO.	Ward Number	Slum Code	Slum Name	Number of total Households(Including pucca )	AREA in Sq Mt
8	5	10056	Sitalatala Govt Bustee	72	13000
9	5	10094	Hembabur Bustee	12	9000
10	6	10058	Shyamasree Pally Ghosh Para Bustee	66	3000
11	8	10063	Pal Para Bustee	62	12000
12	10	10066	Panpara Adivasi Bustee	40	5000
13	11	10047	North Sita Parshi Bustee	25	50000
14	11	10067	Panpara Veri Bustee	55	17000
15	13	10007	South Belayet Ali & A K Road Joint Bustee	47	4000
16	13	10039	P.K.Das Road Bustee	56	2000
17	14	10040	A.K.Road Bustee Beside Hapco	94	2000
18	17	10032	Mondal Para Bustee-1	258	2000
19	17	10086	Jethnibagan North Side Bustee	216	36000
20	20	10011	Rashmani Ghat Bustee	127	11000
21	21	10089	Khathik Para Bustee	42	3000

## Proposed Project:

### Background

It is a path breaking approach being taken up by Central Govt., State Govt. and Municipality, as there are some need to embark on this project with the aim of evolving, demonstrating and establishing models that can thereafter be scaled with a key objective to incentives innovation and encourage new approaches and solutions that can demonstrably improve the quality and quantity of shelter and services for the poor.

### Project Justification

For the following reasons Barrackpore Municipality selected the slums namely mentioned below as first project for preparation of DPR under HFAPoA (PMAY):

Sl.No	Name of the Slums	Status	Land	Age in years	National High Way	Status of Housings	Road Status	Habitation pattern
1	Barrackpore Nagar (Naton Para) Bustee	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
2	Madhab Nibash Bustee	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
3	Bijoy Garh Bustee	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space

Sl.No	Name of the Slums	Status	Land	Age in years	National Highway	Status of Housings	Road Status	Habitation pattern
4	Sahid Sarani Bustee	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
5	Niranjan Nagar "A" Block Basti	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
6	Harekrishna Pally Bustee	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
7	Bhooth Nath Bustee	The condition of living in the slum is unhygienic	Land belongs to the ULB	25	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
8	Sitalatala Govt Bustee	The condition of living in the slum is unhygienic	Land belongs to the ULB	25	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
9	Hembabur Bustee	The condition of living in the slum is unhygienic	Land belongs to the ULB	35	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space



Sl.No	Name of the Slums	Status	Land	Age in years	National High Way	Status of Housings	Road Status	Habitation pattern
						on roof		
10	Shyamasree Pally Ghosh Para Bustee	The condition of living in the slum is unhygienic	Land belongs to the ULB	35	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
11	Pal Para Bustee	The condition of living in the slum is unhygienic	Land belongs to the ULB		The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
12	Panpara Adivasi Bustee	The condition of living in the slum is unhygienic	Land belongs to the ULB	20	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
13	North Sita Parshi Bustee	The condition of living in the slum is unhygienic	Land belongs to the ULB	25	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
14	Panpara Veri Bustee	The condition of living in the slum is unhygienic	Land belongs to the ULB	25	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space

Sl.No	Name of the Slums	Status	Land	Age in years	National High Way	Status of Housings	Road Status	Habitation pattern
15	South Belayet Ali & A K Road Joint Bustee	The condition of living in the slum is unhygienic	Land belongs to the ULB	20	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
16	P.K.Das Road Bustee	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
17	A.K.Road Bustee Beside Hapco	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
18	Mondal Para Bustee-1	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
19	Jethnibagan North Side Bustee	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space
20	Rashmani Ghat Bustee	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space

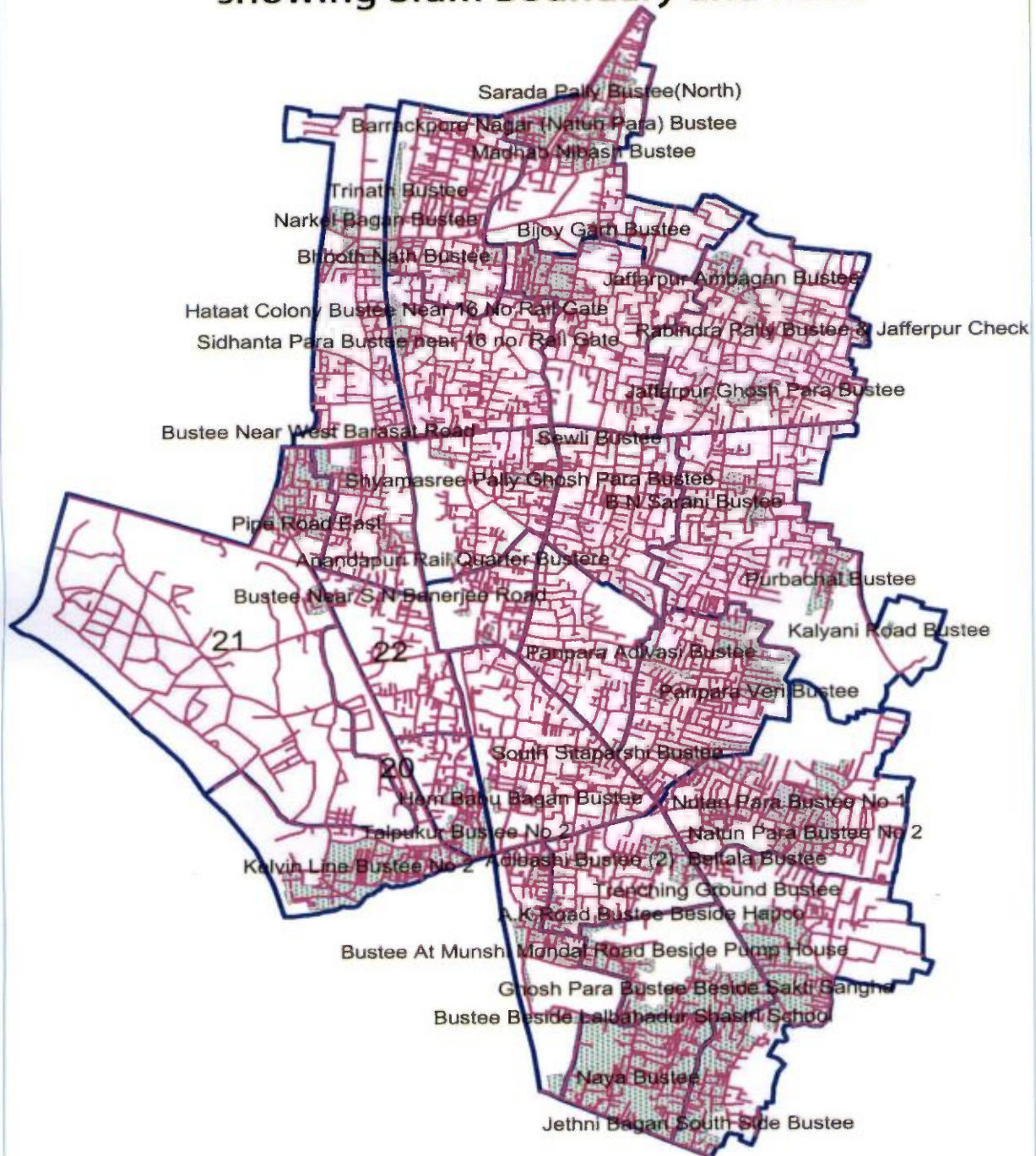
Sl.No	Name of the Slums	Status	Land	Age in years	National High Way	Status of Housings	Road Status	Habitation pattern
						on roof		
21	Khathik Para Bustee	The condition of living in the slum is unhygienic	Land belongs to the Slum dwellers	30	The National Highway - 34 is 12 kms away	Major population is living in huts, made of bricks with tin sheets and asbestos/tiles on roof	Majority portion of roads are damaged brick paved / katcha.	Habitation pattern in the slums is congested with insufficient open space

The proposed PMAY project would address the existing problems in the slum which includes lack of basic physical infrastructure and environmental betterment.



Bustee Beside Lalbahadur Shastri School  
Naya Bustee  
Jethni Bagan South Side Bustee

## Barrackpore Municipality Map showing Slum Boundary and Road



## **Site Appraisal**

1. Land of the project was belongs to WBSIDC and a part of it has been handed over to this municipality by them for rehabilitation of the slum dwellers.
2. As the land of WBSIDC has been encroached by the slum dwellers and WBSIDC was unable to handover the land to entrepreneurs for the establishment of their Industries.
3. Condition of the slum was also not very good and the area will be slum free area if it is approved.
4. After implementation this project , this corporation, Our Municipality , WBSIDC , Slum Dwellers and Industrial Entrepreneurs all will be benefited.
5. More over C.I.C. & B.O.C. has also decided to take this slum as 2<sup>nd</sup> PMAY Cluster project in the city. There are fifteen number of Slums and twenty number of non-slums under PMRY Project for the year 2017-18.







## Existing Slums Details

The environmental condition in the slums is poor. The slums lack basic civic amenities mainly drainage, thereby leading to water logging, mainly during rainy season. This has led to an unhygienic living condition in the slums. Most of the roads within slums are brick paved or kutchha road. Though there are sufficient streetlights available. Most of the population adopts unhygienic method for disposing their waste; thereby causing huge damage to health that ultimately leads to significant loss of man-days of work amongst others. Overall physical and social infrastructure is poor.

### Project Land Particulars

SL No.	Ward Number	Slum Code	Slum Name	AREA in Sq Mt	Age of the Slum (in Years)	Whether located in core City/Town or Fringe area	Type of Area surrounding Slum	Is the slum Notified/ Declared	Ownership of Land where Slum is located
1	1	10035	Barrackpore Nagar (Natan Para) Bustee	2000	30	core City	Residential	Notified	Land belongs to the ULB
2	1	10036	Madhab Nibash Bustee	16000	30	core City	Residential	Notified	Land belongs to the ULB
3	1	10050	Bijoy Garh Bustee	18000	30	core City	Residential	Notified	Land belongs to the ULB
4	2	10019	Sahid Sarani Bustee	2000	30	core City	Residential	Notified	Land belongs to the ULB
5	2	10021	Niranjan Nagar "A" Block Basti	4000	30	core City	Residential	Notified	Land belongs to the ULB
6	2	10044	Harekrishna Pally Bustee	3000	30	core City	Residential	Notified	Land belongs to the ULB
7	2	10051	Bhooth Nath Bustee	23000	30	core City	Residential	Notified	Land belongs to the ULB
8	5	10056	Sitalatala Govt Bustee	4000	30	core City	Residential	Notified	Land belongs to the ULB
9	5	10094	Hembabur Bustee	17000	30	core City	Residential	Notified	Land belongs to the ULB
10	6	10058	Shyamasree Pally Ghosh Para Bustee	2000	30	core City	Residential	Notified	Land belongs to the ULB

SL No.	Ward Number	Slum Code	Slum Name	AREA in Sq Mt	Age of the Slum (in Years)	Whether located in core City/Town or Fringe area	Type of Area surrounding Slum	Is the slum Notified/ Declared	Ownership of Land where Slum is located
11	8	10063	Pal Para Bustee	2000	30	core City	Residential	Notified	Land belongs to the ULB
12	10	10066	Panpara Adivasi Bustee	5000	30	core City	Residential	Notified	Land belongs to the ULB
13	11	10047	North Sita Parshi Bustee	11000	30	core City	Residential	Notified	Land belongs to the ULB
14	11	10067	Panpara Veri Bustee	2000	30	core City	Residential	Notified	Land belongs to the ULB
15	13	10007	South Belayet Ali & A K Road Joint Bustee	4000	30	core City	Residential	Notified	Land belongs to the ULB
16	13	10039	P.K.Das Road Bustee		30	core City	Residential	Notified	Land belongs to the ULB
17	14	10040	A.K.Road Bustee Beside Hapco		30	core City	Residential	Notified	Land belongs to the ULB
18	17	10032	Mondal Para Bustee-1		30	core City	Residential	Notified	Land belongs to the ULB
19	17	10086	Jethnibagan North Side Bustee		30	core City	Residential	Notified	Land belongs to the ULB
20	20	10011	Rashmani Ghat Bustee		30	core City	Residential	Notified	Land belongs to the ULB
21	21	10089	Khathik Para Bustee		30	core City	Residential	Notified	Land belongs to the ULB

### ***Migration***

Maximum dwellers have migrated from rural areas due to lack of employment in agriculture sector. All household had migrated from rural to urban area. Majority of the population of this slum is living for more than 30 years in this slum. Hence, dwellers are now permanently depending on slums. This justifies as a parameter on the importance of Slum for In situ development.

### ***Housing Status***

Housing is the constituent of the social infrastructure of the economy. Like the other constituents, such as the system of education and health, housing also can either reduce or enhance the disparities in the society.

### ***House Type /Structure***

SL NO.	Ward Number	Slum Code	Slum Name	Number of total Households(Including pucca )	AREA in Sq Mt	Semi-Pucca	Katcha
1	1	10035	Barrackpore Nagar (Natun Para) Bustee	63	20000	20	12
2	1	10036	Madhab Nibash Bustee	107	13000	18	5
3	1	10050	Bijoy Garh Bustee	35	3000	22	5
4	2	10019	Sahid Sarani Bustee	149	8000	22	13
5	2	10021	Niranjan Nagar "A" Block Basti	111	9000	16	7
6	2	10044	Harekrishna Pally Bustee	28	3000	8	22
7	2	10051	Bhooth Nath Bustee	33	3000	7	21
8	5	10056	Sitalatala Govt Bustee	72	13000	32	0
9	5	10094	Hembabur Bustee	12	9000	23	0
10	6	10058	Shyamasree Pally Ghosh Para Bustee	66	3000	24	4
11	8	10063	Pal Para Bustee	62	12000	30	10



SL NO.	Ward Number	Slum Code	Slum Name	Number of total Households(Including pucca )	AREA in Sq Mt	Semi-Pucca	Katcha
12	10	10066	Panpara Adivasi Bustee	40	5000	28	0
13	11	10047	North Sita Parshi Bustee	25	50000	19	7
14	11	10067	Panpara Veri Bustee	55	17000	15	14
15	13	10007	South Belayet Ali & A K Road Joint Bustee	47	4000	24	0
16	13	10039	P.K.Das Road Bustee	56	2000	32	0
17	14	10040	A.K.Road Bustee Beside Hapco	94	2000	28	0
18	17	10032	Mondal Para Bustee-1	258	2000	24	8
19	17	10086	Jethnibagan North Side Bustee	216	36000	28	0
20	20	10011	Rashmani Ghat Bustee	127	11000	27	0
21	21	10089	Khathik Para Bustee	42	3000	22	0

Most of the dwelling units have mud flooring closely followed by cement flooring. Firewood is the major source of cooking fuel in majority of the slum household.

#### ***Land Tenure status***

All of the existing households are encroachment on Municipal land.

#### ***Physical Infrastructure***

Infrastructure is the basic requirement of urban life and its adequacy and accessibility are two important ingredients and key contributors in the up gradation and enrichment of quality of urban life which is the primary objective of any planned development effort. These infrastructure facilities are broadly classified into two aspects:

**Physical infrastructure:** Water supply, Drainage, Solid waste, Roads, Electricity.

**Social infrastructure:** Health, School, Community Hall, Lively Hood Centre

## Status of Physical Infrastructure

Physical Infrastructure	Status
<b>1. Barrackpore Nagar (Natun Para) Bustee(Slum Code:-10035)</b>	
Physical Infrastructure	Status
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	NA
4. Whether the slum is prone to flooding due to rains	Not Prone
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Non-Motorable Pucca
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Katcha
11. Whether Street light facility is available in the Slum	Yes
<b>2. Madhab Nibash Bustee(Slum Code:-10036)</b>	
Physical Infrastructure	Status
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4. Whether the slum is prone to flooding due to rains	Up to 15 days
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in a week
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Non-Motorable Katcha

11. Whether Street light facility is available in the Slum	Yes
<b>3. Bijoy Garh Bustee (Slum Code: -10050)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Fully connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Fully connected
3. Connectivity to City-wide Sewerage System	Not connected
4. Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in a week
8. Approach Road/Lane/Constructed Path to Slum	Motorable katcha
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Motorable Kaccha
11. Whether Street light facility is available in the Slum	Yes
<b>4. Sahid Sarani Bustee (Slum Code: -10019)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Fully connected
3. Connectivity to City-wide Sewerage System	Fully connected
4. Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Motorable Pucca
11. Whether Street light facility is available in the Slum	Yes
<b>5. Niranjana Nagar "A" Block Basti (Slum Code: -10021)</b>	



Physical Infrastructure	Status
1. Connectivity to City-wide Water Supply System	Fully connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Fully connected
3. Connectivity to City-wide Sewerage System	Fully connected
4. Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	No Collection
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Motorable Katcha
11. Whether Street light facility is available in the Slum	No Electricity
<b>6. Harekrishna Pally Bustee(Slum Code: -10044)</b>	
Physical Infrastructure	Status
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4. Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Katcha
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Motorable Katcha
11. Whether Street light facility is available in the Slum	Yes
<b>7. Bhooth Nath Bustee(Slum Code: -10051)</b>	
Physical Infrastructure	Status
1. Connectivity to City-wide Water Supply System	Partially connected

2. Connectivity to City-wide Strom-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4. Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal Contractor
7. Frequency of clearance open drains	Once in 2 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Katcha
9. Distance from the nearest Motorable road	0.5 TO 1.0 KM.
10. Internal Road	Motorable Katcha
11. Whether Street light facility is available in the Slum	No Electricity
<b>8. Sitalatala Govt Bustee(Slum Code: -10056)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Strom-water Drainage Supply System	Fully connected
3. Connectivity to City-wide Sewerage System	Partially connected
4. Whether the slum is prone to flooding due to rains	Up to 15 days
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 2 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Katcha
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Motorable Pucca
11. Whether Street light facility is available in the Slum	Yes
<b>9. Hembabur Bustee(Slum Code: -10094)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Not Connected
2. Connectivity to City-wide Strom-water Drainage Supply System	NotConnected

3. Connectivity to City-wide Sewerage System	Not Connected
4. Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in a week
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Katcha
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Katcha
11. Whether Street light facility is available in the Slum	Yes
<b>10. Shyamasree Pally Ghosh Para Bustee (Slum Code: -10058)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially Connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Partially Connected
3. Connectivity to City-wide Sewerage System	Partially connected
4. Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal Contractor
7. Frequency of clearance open drains	No collection
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Katcha
11. Whether Street light facility is available in the Slum	Yes
<b>11. Pal Para Bustee (Slum Code: -10063)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially Connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected



4. Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in 2 days
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in a week
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Katcha
11. Whether Street light facility is available in the Slum	Yes
<b>12. Panpara Adivasi Bustee(Slum Code: -10066)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Not Connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Not Connected
3. Connectivity to City-wide Sewerage System	Not Connected
4. Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in a month
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	No collection
8. Approach Road/Lane/Constructed Path to Slum	Non-Motorable Pucca
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Non-Motorable Pucca
11. Whether Street light facility is available in the Slum	Yes
<b>13. North Sita Parshi Bustee(Slum Code: -10047)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially Connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Partially Connected
3. Connectivity to City-wide Sewerage System	Partially Connected
4. Whether the slum is prone to flooding due to rains	Upto 15 days
5. Frequency of garbage Disposal	Once in a month

6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Pucca
9.Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10.Internal Road	Katcha
11.Whether Street light facility is available in the Slum	Yes
<b>14. Panpara Veri Bustee(Slum Code: -10067)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Strom-water Drainage Supply System	Partiallyconnected
3. Connectivity to City-wide Sewerage System	Partially connected
4.Whether the slum is prone to flooding due to rains	Not prone
5. Frequency of garbage Disposal	Once in a week
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	No collection
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9.Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10.Internal Road	Katcha
11.Whether Street light facility is available in the Slum	Yes
<b>15. South Belayet Ali &amp; A K Road Joint Bustee(Slum Code: 10007)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Strom-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4.Whether the slum is prone to flooding due to rains	Upto 15 days
5. Frequency of garbage Disposal	Once in a week
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days

8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9.Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10.Internal Road	Katcha
11.Whether Street light facility is available in the Slum	Yes
<b>16. P.K.Das Road Bustee(Slum Code: -10039)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Strom-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4.Whether the slum is prone to flooding due to rains	Upto 15 days
5. Frequency of garbage Disposal	Once in a week
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9.Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10.Internal Road	Katcha
11.Whether Street light facility is available in the Slum	Yes
<b>17. A.K.Road Bustee Beside Hapco(Slum Code: -10040)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Strom-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4.Whether the slum is prone to flooding due to rains	Upto 15 days
5. Frequency of garbage Disposal	Once in a week
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca



9.Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10.Internal Road	Katcha
11.Whether Street light facility is available in the Slum	Yes
<b>18. Mondal Para Bustee-1(Slum Code: -10032)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Strom-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4.Whether the slum is prone to flooding due to rains	Upto 15 days
5. Frequency of garbage Disposal	Once in a week
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9.Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10.Internal Road	Katcha
11.Whether Street light facility is available in the Slum	Yes
<b>19. Jethnibagan North Side Bustee(Slum Code: -10086)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Strom-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4.Whether the slum is prone to flooding due to rains	Upto 15 days
5. Frequency of garbage Disposal	Once in a week
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9.Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10.Internal Road	Katcha

11. Whether Street light facility is available in the Slum	Yes
<b>20. Rashmani Ghat Bustee(Slum Code: -10011)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4. Whether the slum is prone to flooding due to rains	Upto 15 days
5. Frequency of garbage Disposal	Once in a week
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Katcha
11. Whether Street light facility is available in the Slum	Yes
<b>21. Khathik Para Bustee(Slum Code: -10089)</b>	
<b>Physical Infrastructure</b>	<b>Status</b>
1. Connectivity to City-wide Water Supply System	Partially connected
2. Connectivity to City-wide Storm-water Drainage Supply System	Partially connected
3. Connectivity to City-wide Sewerage System	Partially connected
4. Whether the slum is prone to flooding due to rains	Upto 15 days
5. Frequency of garbage Disposal	Once in a week
6. Arrangement for Global Disposal	Municipal staff
7. Frequency of clearance open drains	Once in 15 days
8. Approach Road/Lane/Constructed Path to Slum	Motorable Pucca
9. Distance from the nearest Motorable road	Less than 0.5 - 1.0 km
10. Internal Road	Katcha
11. Whether Street light facility is available in the Slum	Yes

Majority of the household uses public taps for water supply. The situation of water supply in the slum is poor. There are presently two water tap only.

### **Sewerage and Storm Water Drains**

Sewerage system is not available at Barrackpore Municipality. Drainage system as available is very poor. Disposal of storm water/ Sullage disposal drain/ culverts are insufficient. Stagnant water has been observed at many places in and around the slum.

### **Solid waste**

At Solid Waste Management system in the slum is mainly done by the ULB. The waste which is generated is collected daily. The drains are cleared by the local people once in a week.

### **Roads**

Approach roads to the slums are motor able but roads within slum are in dilapidated condition.

Roads in front of premises			
Motorable Pucca	Motorable Katcha	Non Motorable Pucca	Non Motorable Katcha
0%	28.52%	10.25%	28.56%

### **Electricity**

Majority of the household (95.82%) have electricity connections, The street lights are maintained by the Municipality

### **Literacy level**

It is observed that 152 of the population are illiterate. Literacy of the female population is less than that of the male.



## Details of Social Infrastructure at a glance:

### 1. Barrackpore Nagar (Natun Para) Bustee(Slum Code:-10035)

Education & Social Infrastructure	
<b>Pre-primary School</b>	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
<b>Primary School</b>	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
<b>High School</b>	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA

Education & Social Infrastructure	
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

## 2. Madhab Nibash Bustee(Slum Code:-10036)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
High School	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km

<b>Education &amp; Social Infrastructure</b>	
<b>Adult Education Centre</b>	NA
<b>Health Facilities</b>	Less than 1.0km
<b>Urban Health Post</b>	Less than 1.0km
<b>Primary Health Centre</b>	Less than 1.0km
<b>Government Hospital</b>	Less than 5.0km
<b>Maternity Centre</b>	Less than 1.0km
<b>Private Clinic</b>	Less than 3.0km
<b>Registered Medical Practitioner (RMP)</b>	Less than 2.0km
<b>Ayurvedic Doctor/Vaidya</b>	Less than 5.0km
<b>Social Development/Welfare</b>	NA
<b>Community Hall</b>	NA
<b>Livelihood/Production Centre</b>	NA
<b>Vocational Training/Training cum Production Centre</b>	NA
<b>Street Children Rehabilitation Centre</b>	NA
<b>Night Shelter</b>	NA
<b>Old Age Home</b>	Less than 5.0km
<b>Self Help Groups/DWCUA Groups in Slum</b>	1
<b>No. of Neighbourhood Groups (NHGs) in slum</b>	2
<b>Slum-dwellers Association</b>	NA
<b>Youth Association</b>	NA
<b>Women's Association/MahilaSamithis</b>	NA



### 3. Bijoy Garh Bustee(Slum Code: -10050)

Education & Social Infrastructure	
<b>Pre-primary School</b>	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
<b>Primary School</b>	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
<b>High School</b>	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA

Education & Social Infrastructure	
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

#### 4. Sahid Sarani Bustee(Slum Code: -10019)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
High School	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA

Education & Social Infrastructure	
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

### 5. Niranjan Nagar "A" Block Basti (Slum Code: -10021)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km



<b>Education &amp; Social Infrastructure</b>	
<b>Municipal Pre-school</b>	NA
<b>Private Pre-school</b>	Less than 1.0km
<b>Primary School</b>	
<b>Municipal</b>	NA
<b>State Government</b>	Less than 1.0km
<b>Private</b>	Less than 5.0km
<b>High School</b>	
<b>Municipal</b>	NA
<b>Private</b>	Less than 5.0km
<b>State Government</b>	Less than 2.0km
<b>Adult Education Centre</b>	NA
<b>Health Facilities</b>	Less than 1.0km
<b>Urban Health Post</b>	Less than 1.0km
<b>Primary Health Centre</b>	Less than 1.0km
<b>Government Hospital</b>	Less than 5.0km
<b>Maternity Centre</b>	Less than 1.0km
<b>Private Clinic</b>	Less than 3.0km
<b>Registered Medical Practitioner (RMP)</b>	Less than 2.0km
<b>Ayurvedic Doctor/Vaidya</b>	Less than 5.0km
<b>Social Development/Welfare</b>	NA
<b>Community Hall</b>	NA
<b>Livelihood/Production Centre</b>	NA
<b>Vocational Training/Training cum Production Centre</b>	NA
<b>Street Children Rehabilitation Centre</b>	NA
<b>Night Shelter</b>	NA

Education & Social Infrastructure	
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

#### 6. Harekrishna Pally Bustee(Slum Code: -10044)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
High School	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km

Education & Social Infrastructure	
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

#### 7. Bhooth Nath Bustee(Slum Code: -10051)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA



Education & Social Infrastructure	
State Government	Less than 1.0km
Private	Less than 5.0km
High School	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA

Education & Social Infrastructure	
Youth Association	NA
Women's Association/MahilaSamithis	NA

### 8. Sitalatala Govt Bustee(Slum Code: -10056)

Education & Social Infrastructure	
<b>Pre-primary School</b>	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
<b>Primary School</b>	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
<b>High School</b>	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km

Education & Social Infrastructure	
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

### 9. Hembabur Bustee(Slum Code: -10094)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
High School	



<b>Education &amp; Social Infrastructure</b>	
<b>Municipal</b>	NA
<b>Private</b>	Less than 5.0km
<b>State Government</b>	Less than 2.0km
<b>Adult Education Centre</b>	NA
<b>Health Facilities</b>	Less than 1.0km
<b>Urban Health Post</b>	Less than 1.0km
<b>Primary Health Centre</b>	Less than 1.0km
<b>Government Hospital</b>	Less than 5.0km
<b>Maternity Centre</b>	Less than 1.0km
<b>Private Clinic</b>	Less than 3.0km
<b>Registered Medical Practitioner (RMP)</b>	Less than 2.0km
<b>Ayurvedic Doctor/Vaidya</b>	Less than 5.0km
<b>Social Development/Welfare</b>	NA
<b>Community Hall</b>	NA
<b>Livelihood/Production Centre</b>	NA
<b>Vocational Training/Training cum Production Centre</b>	NA
<b>Street Children Rehabilitation Centre</b>	NA
<b>Night Shelter</b>	NA
<b>Old Age Home</b>	Less than 5.0km
<b>Self Help Groups/DWCUA Groups in Slum</b>	1
<b>No. of Neighbourhood Groups (NHGs) in slum</b>	2
<b>Slum-dwellers Association</b>	NA
<b>Youth Association</b>	NA
<b>Women's Association/MahilaSamithis</b>	NA

Education & Social Infrastructure	
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

### 11.Pal Para Bustee(Slum Code: -10063)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
High School	

<b>Education &amp; Social Infrastructure</b>	
<b>Municipal</b>	NA
<b>Private</b>	Less than 5.0km
<b>State Government</b>	Less than 2.0km
<b>Adult Education Centre</b>	NA
<b>Health Facilities</b>	Less than 1.0km
<b>Urban Health Post</b>	Less than 1.0km
<b>Primary Health Centre</b>	Less than 1.0km
<b>Government Hospital</b>	Less than 5.0km
<b>Maternity Centre</b>	Less than 1.0km
<b>Private Clinic</b>	Less than 3.0km
<b>Registered Medical Practitioner (RMP)</b>	Less than 2.0km
<b>Ayurvedic Doctor/Vaidya</b>	Less than 5.0km
<b>Social Development/Welfare</b>	NA
<b>Community Hall</b>	NA
<b>Livelihood/Production Centre</b>	NA
<b>Vocational Training/Training cum Production Centre</b>	NA
<b>Street Children Rehabilitation Centre</b>	NA
<b>Night Shelter</b>	NA
<b>Old Age Home</b>	Less than 5.0km
<b>Self Help Groups/DWCUA Groups in Slum</b>	1
<b>No. of Neighbourhood Groups (NHGs) in slum</b>	2
<b>Slum-dwellers Association</b>	NA
<b>Youth Association</b>	NA
<b>Women's Association/MahilaSamithis</b>	NA



## 12.Panpara Adivasi Bustee(Slum Code: -10066)

Education & Social Infrastructure	
<b>Pre-primary School</b>	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
<b>Primary School</b>	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
<b>High School</b>	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km

Education & Social Infrastructure	
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

### 13.North Sita Parshi Bustee(Slum Code: -10047)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
High School	

<b>Education &amp; Social Infrastructure</b>	
<b>Municipal</b>	NA
<b>Private</b>	Less than 5.0km
<b>State Government</b>	Less than 2.0km
<b>Adult Education Centre</b>	NA
<b>Health Facilities</b>	Less than 1.0km
<b>Urban Health Post</b>	Less than 1.0km
<b>Primary Health Centre</b>	Less than 1.0km
<b>Government Hospital</b>	Less than 5.0km
<b>Maternity Centre</b>	Less than 1.0km
<b>Private Clinic</b>	Less than 3.0km
<b>Registered Medical Practitioner (RMP)</b>	Less than 2.0km
<b>Ayurvedic Doctor/Vaidya</b>	Less than 5.0km
<b>Social Development/Welfare</b>	NA
<b>Community Hall</b>	NA
<b>Livelihood/Production Centre</b>	NA
<b>Vocational Training/Training cum Production Centre</b>	NA
<b>Street Children Rehabilitation Centre</b>	NA
<b>Night Shelter</b>	NA
<b>Old Age Home</b>	Less than 5.0km
<b>Self Help Groups/DWCUA Groups in Slum</b>	1
<b>No. of Neighbourhood Groups (NHGs) in slum</b>	2
<b>Slum-dwellers Association</b>	NA
<b>Youth Association</b>	NA
<b>Women's Association/MahilaSamithis</b>	NA



#### 14. Panpara Veri Bustee (Slum Code: -10067)

Education & Social Infrastructure	
<b>Pre-primary School</b>	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
<b>Primary School</b>	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
<b>High School</b>	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km

Education & Social Infrastructure	
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

### 15.South Belayet Ali & A K Road Joint Bustee(Slum Code: 10007)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
High School	

Education & Social Infrastructure	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA



### 16.P.K.Das Road Bustee(Slum Code: -10039)

Education & Social Infrastructure	
<b>Pre-primary School</b>	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
<b>Primary School</b>	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
<b>High School</b>	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km

Education & Social Infrastructure	
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

### 17.A.K.Road Bustee Beside Hapco(Slum Code: -10040)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km

Education & Social Infrastructure	
<b>High School</b>	
<b>Municipal</b>	NA
<b>Private</b>	Less than 5.0km
<b>State Government</b>	Less than 2.0km
<b>Adult Education Centre</b>	NA
<b>Health Facilities</b>	Less than 1.0km
<b>Urban Health Post</b>	Less than 1.0km
<b>Primary Health Centre</b>	Less than 1.0km
<b>Government Hospital</b>	Less than 5.0km
<b>Maternity Centre</b>	Less than 1.0km
<b>Private Clinic</b>	Less than 3.0km
<b>Registered Medical Practitioner (RMP)</b>	Less than 2.0km
<b>Ayurvedic Doctor/Vaidya</b>	Less than 5.0km
<b>Social Development/Welfare</b>	NA
<b>Community Hall</b>	NA
<b>Livelihood/Production Centre</b>	NA
<b>Vocational Training/Training cum Production Centre</b>	NA
<b>Street Children Rehabilitation Centre</b>	NA
<b>Night Shelter</b>	NA
<b>Old Age Home</b>	Less than 5.0km
<b>Self Help Groups/DWCUA Groups in Slum</b>	1
<b>No. of Neighbourhood Groups (NHGs) in slum</b>	2
<b>Slum-dwellers Association</b>	NA
<b>Youth Association</b>	NA
<b>Women's Association/MahilaSamithis</b>	NA



### 18.Mondal Para Bustee-1(Slum Code: -10032)

Education & Social Infrastructure	
<b>Pre-primary School</b>	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
<b>Primary School</b>	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
<b>High School</b>	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km

Education & Social Infrastructure	
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

### 19.Jethnibagan North Side Bustee(Slum Code: -10086)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
High School	

Education & Social Infrastructure	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA



## 20.Rashmani Ghat Bustee(Slum Code: -10011)

Education & Social Infrastructure	
<b>Pre-primary School</b>	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
<b>Primary School</b>	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km
<b>High School</b>	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km

Education & Social Infrastructure	
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA

## 21.Khathik Para Bustee(Slum Code: -10089)

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Less than 0.5km
Municipal Pre-school	NA
Private Pre-school	Less than 1.0km
Primary School	
Municipal	NA
State Government	Less than 1.0km
Private	Less than 5.0km

Education & Social Infrastructure	
<b>High School</b>	
Municipal	NA
Private	Less than 5.0km
State Government	Less than 2.0km
Adult Education Centre	NA
Health Facilities	Less than 1.0km
Urban Health Post	Less than 1.0km
Primary Health Centre	Less than 1.0km
Government Hospital	Less than 5.0km
Maternity Centre	Less than 1.0km
Private Clinic	Less than 3.0km
Registered Medical Practitioner (RMP)	Less than 2.0km
Ayurvedic Doctor/Vaidya	Less than 5.0km
Social Development/Welfare	NA
Community Hall	NA
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	Less than 5.0km
Self Help Groups/DWCUA Groups in Slum	1
No. of Neighbourhood Groups (NHGs) in slum	2
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/MahilaSamithis	NA



## The Supply Demand Gap and Requirements

### Particulars

### Requirements

*Housing: Dwelling Unit provision for Households with standard provisions:*

- ☐ 1 Multipurpose Room
- ☐ 1 Bed Room
- ☐ 1 Kitchen
- ☐ 1 Toilet
- ☐ 1 W.C

*Physical Infrastructure Requirement:*

*Standard Infrastructure Provision for*

- ☐ Water Supply
- ☐ Drainage
- ☐ Roads
- ☐ Electricity

## Project Development Option

In-situ redevelopment and whole of the project will be addressed in the project

### **Proposed Development**

Based on preliminary understanding, the following components are being proposed

- ☐ Housing Units [Single storied in situ].
- ☐ Standard Physical Infrastructure to be provided in the form of Circulation of Water Supply Drainage, Roads and Electricity

## Innovations proposed in Project Planning

### **Background**

Housing activities are known to have the capacity to play a significant role in social-economic development, because they help not only in creation of shelter for the people by also in generating employment opportunities for a large variety skilled and unskilled work force which is a prerequisite for growth and development of settlement. A considerable section of the people without land are in a still worse position as housing schemes for the

poor have hitherto been targeted on paper but not applied in practice. Both the serviced land and shelter have become beyond the reach for half of the population-hence formation of slums, encroachments, informal colonies and unauthorized constructions. No land is earmarked for Economically Weaker Sections and Low Income Groups in Master Plan. The population density norms are required to re-look to enable better utilization of valuable land, as certain areas in the city. This growing slum population and the lack of basic facilities like water and sanitation will badly impact on overall development and prosperity of urban centres like Municipality.

To overcome the existing situation and to promote planned development the following innovative strategies can be adopted for the improvement of the city.

- To ensure that housing, along with the supporting services is treated as a priority and at par with the infrastructure sector.
- Forging strong partnerships between private, public, and cooperative sectors to enhance the capacity of the construction industry.
- Organizing public consultations to meet the special needs of slum dwellers.
- Promotion of livelihood for the slum dwellers.

## **Financial Implementation:**

***Beneficiary led Participation:*** implies development of housing by involvement of Beneficiary

### **Tasks:**

- ☐ Composition of beneficiaries and organizing the area meetings.
- ☐ Involvement of community and sustainable livelihood framework (SLF) in decision making and prioritization of needs of the slum.
- ☐ Understating of Social-economic profile

### **Post Project Monitoring**

A Monitoring & Evaluation team has to be formed to know the post project impact on the slums and to document the best practices.

## Physical Infrastructure

### Background

The National Sample Survey Organization (NSSO) in the Ministry of Statistics and Programme Implementation, Government of India has released the report of a nation-wide survey carried out by it during July 2008 to June 2009 (65<sup>th</sup> round) on the condition of urban slums.

The aim of the survey was to collect information on the present condition of the slums and on recent changes, if any, in the condition of facilities available therein. Both 'notified slums' – areas notified as slums by the municipalities, corporations, local bodies or development authorities – and non-notified slums were surveyed – a non-notified slum being any compact urban area with a collection of poorly built tenements, mostly of temporary nature, crowded together usually with inadequate sanitary and drinking water facilities in unhygienic conditions. The present report gives the condition of urban slums, covering ownership, area type, structure, road within and approaching the slum, living facilities like electricity, drinking water, latrine, sewerage, drainage, garbage disposal, and distance of slums from the nearest primary school and government hospital/health centre. It also estimates the proportion of slums where certain specific facilities have improved/ deteriorated over the five years preceding the date of survey.

Comprehensive data on this subject was last collected by NSSO in its 58<sup>th</sup> round (July - December

2002). The present report provides key indicators from the 58<sup>th</sup> round as well, for

comparison. Some important findings of the survey are given below.

- ☐ About 49 thousand slums were estimated to be in existence in urban India in 2008-09, 24% of them were located along *nallahs* and drains and 12% along railway lines.
- ☐ About 57% of slums were built on public land, owned mostly by local bodies, state government, etc.
- ☐ In 64% of notified slums, a majority of the dwellings were pucca, the



corresponding percentage for the non-notified ones being 50%.

- ☐ For 95% slums, the major source of drinking water was either tap or tube wells.
- ☐ Only 1% notified and 7% non-notified slums did not have electricity connection.
- ☐ About 78% of notified slums and 57% of the non-notified slums had a pucca road inside the slum.
- ☐ About 73% notified and 58% non-notified slums had a motorable approach road.
- ☐ About 48% of the slums were usually affected by water logging during monsoon – 32% with inside of slum waterlogged as well as approach road to the slum, 7% where the slum was waterlogged but not the approach road, and 9% where only the approach road was waterlogged in the monsoon.
- ☐ The sanitary conditions in the slums in terms of latrine facility during 2008-09 showed considerable improvement since 2002. Latrines with septic tanks (or similar facility) were available in 68% notified and 47% non-notified slums (up from 66% and 35% respectively in 2002). At the other extreme, 10% notified and 20% non-notified slums (down from 17% and 51% in 2002) did not have any latrine facility at all.
- ☐ About 10% notified and 23% non-notified slums did not have any drainage facility. The corresponding proportions in 2002 had been 15% for notified and 44% for non-notified slums. Underground drainage systems or drainage systems constructed of pucca materials existed in about 39% notified slums (25% in 2002) and 24% non-notified slums (13% in 2002).
- ☐ Underground sewerage existed in about 33% notified slums (30% in 2002) and 19% non-notified slums (15% in 2002).
- ☐ Government agencies were collecting garbage from 75% notified and 55% non-notified slums.

Among these slums, garbage was collected at least once in 7 days in 93% notified and 92% non-notified slums. About 10% notified and 23% non-notified slums did not have any regular mechanism for garbage disposal.

- ☐ Over the last five years, facilities had improved in about 50% of notified slums in terms of roads (both within-slum road and approach road) and water supply. The incidence of deterioration of any of the existing facilities in notified slums during the last five years was quite low (about 6% or below).
- ☐ In case of most slum facilities – sewerage and medical facilities being exceptions – the facility

was reported to have improved during the last five years in more than 20% of non-

notified slums. Deterioration of any of the existing facilities in non-notified slums, like notified slums, was rare (about 9% or below).

- ☐ Facilities such as street light, latrine, drainage, sewerage and medical facilities were each reported by more than 10% of notified slums to be non-existent both at the time of survey and five years earlier. In case of non-notified slums, facilities like street light, latrine, drainage, sewerage and garbage disposal were each reported by more than 20% of the slums to be non-existent, both during the survey and five years earlier.
- ☐ Where improvement had been brought about during the last 5 years, it was due to the

Government's efforts in about 80-90% of slums, both notified as well as non-notified and for all the facilities. Improvement in educational facilities at primary level was attributed to NGOs in 13% of the notified slums where such improvement was reported. NGOs were also found to have played a role in the improvement of latrine and sewerage system in non-notified slums.

## **Topographical survey and GIS mapping**

The preparation of base map of Wood Industries slum has been prepared with Global Positioning Stations (GPS) and temporary Benchmarks (TBM) for Georeferencing and accurately locating the slum. These points have been selected and located at well defined locations on the ground after discussion with the ULB officials. The existing topographical features have been represented to the actual terrestrial position.

Based on the Total Station survey and Socio-economic survey GIS based thematic maps were generated. This helped in accurate representation of the ground scenario with that of the socio-economic conditions of the people. The following GIS maps were generated for inclusive planning:

- ☐ Map showing existing Land use Map
- ☐ Map showing Household Size
- ☐ Map showing House Type/Structure, Flooring, Cooking
- ☐ Map showing Minority Status
- ☐ Map showing existing toilet facility
- ☐ Map showing existing road type in front of house
- ☐ Map showing existing source of drinking water
- ☐ Map showing existing source of house lighting

## **Water Supply**

### **Proposal Rationale**

Water and poverty are inextricably linked. Poor access to water and insufficient sanitation affect the health of the poor, their food security, and their prospects for making a living especially for vulnerable groups, such as children, the elderly, and women in general. Safe and adequate quantities of water and food security are recognized as preconditions for an acceptable development standard.

In almost whole of Asia and the Pacific region - home to nearly 900 million of the world's poorest people - one in three people does not have safe drinking water and one in two lacks adequate sanitation. Water is a critical resource for the poor and plays a key role in many aspects of their livelihoods.

Poor people depend on or are affected by water resources in four key ways:

- ☐ **As direct inputs into production**
- ☐ **For health, welfare, and food security**
- ☐ **For ecosystems viability**
- ☐ **For combating water-related hazards**

Keeping the above in mind, a water scheme for the urban poor needs to be drawn up which shall **Improved Access to Quality Water Services and also** build up institutions accessible to the poor that can efficiently manage water resources. These institutions need to be responsive to the poor and should have an adequate opportunity for the poor to raise their views.

The management of water resources must take place within the wider ecosystems context, and all actions should be based on an understanding of the flows of water resources within river basins and how they affect the poor.

In view of this, the water scheme needs to take into account the following broad objectives:

- ☐ **To provide adequate Treated Water**
- ☐ **To ensure access for the Urban poor**
- ☐ **To develop institutional framework taking into account the requirements of the Urban Poor**



## Outcome

Water is a basic requirement of life. Absence of adequate water is a major issue for health as well as comfort for the poor. With the implementation of the project, the slum dwellers will have access to safe drinking water, which will greatly help their personal health, and hygiene. Quality of life would improve significantly and the multiplier effect due to this investment would reap significant benefit to the economy of this region within a considerable short period of time.

Water supply includes sources of supply, features of collection and distribution system, water demand and availability, quality of surface and groundwater source, reuse and recycling of water including conservation of water at the household level. The endeavour for all the proposals is to optimize the total cost of the system.

## Assessment of Overall State of Infrastructure

In line with the City Development Plan for Kolkata Metropolitan Area (Pg 11-28), it has been resolved that the entire KMA are will be switched over to surface water.

The following norms have been fixed for the region:

- |                          |   |                 |
|--------------------------|---|-----------------|
| <input type="checkbox"/> | <b>Kolkata Municipal Corporation Area</b> | <b>200 lpcd</b> |
| <input type="checkbox"/> | <b>Howrah Municipal Corporation Area</b>  | <b>150 lpcd</b> |
| <input type="checkbox"/> | <b>Municipal &amp; Non-Municipal Area</b> | <b>135 lpcd</b> |

Previously the area was largely dependent on ground water. The status of ground water availability is as follows:

Keeping in mind the reduced rate of aquifer, traces of Arsenic Contamination and presence of Iron on the water, it has been decided to switch over to surface water from River Damodar.

Accordingly, the plant design is adequate to cater to the future requirement of the entire region and no augmentation of supply is required for the present project

## **Situation Appraisal & Key Intervention for Identified Slum**

Presently accessibility to water supply facilities in the slum pocket is inadequate. The major source of water is from the common tap water available in the slums. The slum is partially connected to the municipal water supply main.

It is now proposed that water pipeline shall be provided in each household with requisite number of taps, as computed during the survey as felt needs shall be provided under this Project. However, considering that the houses are being provided with water, the provisions of multiple taps have not been encouraged and kept to the minimal level.

Design of distribution system was carried out on the following basis:

- ☐ Population projection
- ☐ Project horizon years
- ☐ Design period for various project components
- ☐ Per capita water supply
- ☐ Factors affecting consumption
- ☐ Existing water supplies
- ☐ Pipeline pressure requirement
- ☐ Supply of water on 24 x 7 basis
- ☐ Economical size of conveying main
- ☐ Choice of pipe materials
- ☐ Peak factor
- ☐ Residual pressure
- ☐ Hydraulic zoning

### **Design Period for various Project Components**

Water supply projects are designed normally to meet the requirements over a period of 30 years after their completion. The time lag between design and completion of the project should also be taken into account which should not exceed two to five years depending on the size of the project. CPHEEO guidelines have been followed has suggested the design period for various water supply components.

### **Service Plan**

The pipelines needs to be regularly and kept in full working conditions. It is proposed that operation and maintenance of these pipelines and other assets be done in conjunction with the maintenance programme of the Municipal Corporation. The Bustee Working Committee shall be the first level of

responsibility for ensuring that the pipelines etc are kept in good order. The overall operation and maintenance shall be carried out by the project cell of the Municipal Corporation.

### **Proposed Interventions**

According to the above, the water supply design requirement for Municipality has been fixed at 135 lpcd

(Domestic Requirement) + 15% (head loss) +  $100 \times (p^{0.5}) = 163.25 \text{ lpcd (approx.)}$ .

There is existing water supply scheme which has the capacity for meeting the requirement. Thus there is no additional requirement of any reservoir. There are street stand posts for the slum proposed. But to achieve house connection at slum 100 mm dia. DI pipes are proposed.

The details of water supply lines provide are as follow:

#### **Transmission of Water**

Barrackpore Municipality has water supply through ESR having (24x7) water supply. For the proposed multi-storied buildings sump and pump with OHR is provided for each building. The water supply network for this slum will be connected to the citywide water supply network.

Water supply system broadly involves transmission of water from the water supply main to the area of consumption normally through pipelines. Pipelines normally follow the profile of the ground surface quite closely, normally at 1 metre below ground.

Following design criteria are adopted for this project:

- ☐ Gravity pipelines have to be laid below the hydraulic gradient.
- ☐ Pipes are of Ductile Iron, Mild steel, GRP, HDPE, uPVC, Plastic etc.
- ☐ The design of water supply conduits is dependent on pipe friction, available head, velocity allowable, etc.
- ☐ Minimum sizes of 100mm for towns having population up to 50,000 and 150mm for those above 50,000 are recommended.
- ☐ There are a number of formulae available for use in calculating the velocity of flow. However,
- ☐ Hazen William's formula for pressure conduits and Manning's formula for free flow conduits are popularly used.



## **Drainage and Solid waste management**

### **Proposal Rationale**

The status of adequate Drainage has a close and direct link with environment, water supply and its cleanliness, health and hygiene. The problem of adequate drainage associated with steep influx of population in urban areas, therefore needs to be addressed forth with, debated and deliberated at length, by the policy planners for the development of urban/city areas. Inadequate Drainage results in accumulation of stagnant water and is a major health hazard for the people living in the region.

In the slums there is no proper drainage system and hence stagnation of water is a common occurrence for the slums. In order to improve the situation, there is a need for constructing pucca drains, which will dispose of the stagnant water to the main drains.

### **Outcome**

The proposed drainage system by means of construction of new drains and improvement of existing will help to provide relief to the slum dwellers by means of efficient and effective disposal of storm water through the outfall channels. The outcome of this scheme will by and large enhance the quality of civic life by way of promotion and safeguarding the public health and environmental pollution.

### **Assessment Overall State of Infrastructure**

One of the priority area identified for Wood Industries slum has been absence of adequate drainage. Most of the drainage is kutcha and inadequate for covering the slums which had led to water logging which in turn affected the environment and health of the people on an overall basis.

As mentioned above poor drainage system and consequently chronic water logging are the major issues of concern. There is hardly any pucca drain. The state of drain also affects the condition of the road.

Though there are storm water drains on the main road around the slums, but there is no systematic connection with the internal areas of the slum, thereby leading to acute water logging within the slum. It is worth mentioning that apart from lack of drainage network in several slum pockets, major challenge lies with its maintenance. In numerous cases drains in slums gets choked due to improper disposing of solid waste and other hazardous materials into the existing drains.

Situation gets beyond control particularly during monsoon season like July and August. Accumulated water causes to generate public health problems. Haphazard growth and settlement in the slum area has blocked the natural drainage courses, which in turn causes water logging and stagnation in different parts of the slum.

## **Proposed Interventions**

It is thus proposed to have an integrated drainage programme covering the slum pocket. The programme shall envisage construction of pucca drain throughout the road length and installing a maintenance programme to ensure that the drains are kept free from clogging from plastics and other materials. Depending on the availability of space and requirement, a sections have been designed, Designs of which have been provided in the relevant sections.

## **Road Infrastructure**

### **Proposal Rationale**

A key component of the Proposal is a focused initiative to provide strong connectivity and provision of movement in the slums. This will enable the poor people to benefit from greater mobility and would increase their employment opportunities, open up trading and marketing of products, and important improve access to health, education, and other social services.

Roads in the slum are highly undeveloped and ill maintained. Poor roads are strong barrier to the development of the slums. Poor road condition and absence of road facility in several slums makes life difficult for all slum dwellers, especially, women and children. It also hampers prompt movement of sick; particularly those who require urgent medical attention. Lack of maintenance, coupled with poor drainage makes life even worse during monsoon season. Road are rarely re-built or re-paired periodically due to several reason. Provision of basic quality road is thus an important element of slum development. The existing road network system of the slum has become inadequate to cope up with the present and ever increasing needs. In order to bear the additional pressure due to enhanced civic, economic and commercial activities of the slum, existing road network system in several places are required either to be up-graded or winded and new roads are also be constructed in a number of places where the network is inadequate.

### **Proposed status and strategy**

The existing condition of the road is poor and cause great hardship to the slum dwellers particularly women and children. The existing roads in the slum areas are predominantly made of brick pavement. These roads are substantially worn out. The lane roads are Kutcha roads. These roads are highly vulnerable and are in a poor condition particularly in rainy season

One of the major issues is absence of proper maintenance. In view of this it is proposed that the entire

road network is to be converted to concrete pavement as concrete pavements are durable and easy to maintain.

The Road needs to be maintained. It is proposed that operation and maintenance and servicing of these roads be done by the Municipality. The Bustee Working Committee shall be the first level of responsibility for ensuring that the pipelines etc. are kept in good order. The project cell of the Municipal Corporation shall carry out the overall operation and maintenance.

### **Proposed Intervention**

All the proposed roads are rigid pavement-cement concrete roads. Rigid pavements are those which possess noteworthy flexural strength. The concrete pavement slab can very well serve as a wearing surface as well as effective base course. Therefore usually rigid pavement structure consists of a cement concrete slab, below which a granular base or sub base course may be provided. Rigid pavements are generally designed and the stresses are analyzed using elastic theory, assuming pavement as an elastic plate resting over elastic or a viscous foundation.

Construction of granular sub-base (GSB) 200 mm thick. Construction of 150 mm thick cement concrete pavement, as per Clause 1501.2.2 M30 (Grade), as per drawing and Technical Specification Clause 1501.

### **Outcome**

After successful implementation of the scheme the slum dwellers will have facilities like pre-school education, adult education, non-formal education and social, recreational activities in the slum area. The community centres would provide the people to gather in, to meet and discuss their problems. It is not just a physical location but a space; where poor people could own, develop their thoughts and also could contribute their own skill and labour to make their dream come true. It will also provide the Municipal Corporation in networking with the urban poor communities in order to exchange information and views.

### **Proposed Intervention**

In view of the above, it is proposed that a Community Centre is established to cater the slum population. For community development a community centre is proposed. The one storied community centre has total plinth area of 223.4 sq m.

There will be Multipurpose hall which may be used as skill development centres or livelihood centre, health centres and Crèche are provided.



The Community Centres act mainly as a supporting unit for livelihood and for revenue generation for O&M.

#### **Materials of construction:**

- ☐ PCC (1:3:6) for foundation
- ☐ RCC M-20 for substructure & superstructure (Column, Beam, Slab)
- ☐ HYSD Steel
- ☐ 1<sup>st</sup> Class Brick Masonry
- ☐ 1:6 (Cement: Sand) plaster – 10 mm on soffit of beam & slab, 15 mm on internal walls & 20 mm on external walls
- ☐ IPS flooring

### **Definition of Slum for Housing**

Different definitions of a slum exist in different statutes and in urban poverty literature. For the purpose of HOUSING SCHEME, it is proposed to adopt the definition given in the 2001 Census, which is as follows:

- a. All areas notified as 'Slum' by State/Local Government and UT Administration under any Act;
- b. All areas recognized as 'Slum' by State/Local Government and UT Administration, which have not been formally notified as slum under any Act;

**'Slum' or 'Slum Area'**– is a compact settlement of at least 20 households ( For NE & Special Category States it is 10-15 households) with a collection of poorly built tenements, mostly of temporary nature, crowded together usually with inadequate sanitary and drinking water facilities in unhygienic conditions.

#### **Situation Appraisal**

The people living in the slums mostly have kutchha and semi-pucca housing. In certain cases where pucca housing is available, they are usually in dilapidated condition. The kutchha houses are in very poor condition and require extensive repairs. Most of the houses have tiles on roof. While during the survey some of the houses have been noted to be in average condition, the quality of these houses is also speedily deteriorating.

## Proposed Intervention

In line with the vision to ‘housing for all’, an integrated housing programme is proposed to be implemented. The target will be all the slum dwellers in the pocket. In situ single dwelling units are proposed.

Building type	Number of DU
In situ single Unit	2017 within 21 slums

## Building Plan

The buildings are proposed to cover an area of approximate 32 Sq.mt along with provision of 2 rooms, kitchen and sanitation facility. The layout, size and type design of housing dwelling units depends on the local conditions and the preferences of the beneficiary. The houses, has been designed in accordance with the desire of the beneficiaries, keeping in view the climatic conditions and the need to provide ample space, kitchen, ventilation, sanitary facilities, etc. and the community perceptions, preferences and cultural attitudes.

In line with the scheme, carpet area of the house will be not less than 25 sq. mts and preferably two room accommodation plus kitchen and toilet should be constructed.

## Building material

- ☐ PCC (1:3:6) for foundation
- ☐ RCC M-20 for substructure & superstructure (Column, Beam, Slab)
- ☐ HYSD Steel
- ☐ 1<sup>st</sup> class Brick Masonry
- ☐ 1:6 (Cement: Sand) plaster – 10 mm on soffit of beam & slab, 15 mm on internal walls & 20 mm on external walls
- ☐ IPS flooring

## Structural Design

- ☐ Following are the general considerations in the analysis/design.
- ☐ For all structural elements, M20 grade concrete and Fe 415 grade of steel is used.
- ☐ Plinth beams passing through columns are provided as tie beams.
- ☐ Pedestals are proposed up to ground level.
- ☐ Beam Centre-line dimensions are followed for analysis and design.
- ☐ For all the building, walls of 250 mm and 125mm thick with 20 mm External plaster and 12 mm thick internal plaster are considered.

- ☐ Seismic loads are considered acting in the horizontal direction along either of the two principal directions.

### **Design data**

- ☐ Live load: 2.0 kN/m<sup>2</sup> at typical floor
- ☐ 1.5 kN/m<sup>2</sup> on terrace (With Access) : 0.75 kN/m<sup>2</sup> on terrace (without Access)
- ☐ Floor finish 50mm (0.05\*24) = : 1.2 kN/m<sup>2</sup>
- ☐ Ceiling plaster 12mm (0.012\*20.8) : 0.25 kN/m<sup>2</sup>
- ☐ Partition walls (Wherever Necessary) : 1.0 kN/m<sup>2</sup>
- ☐ Terrace finish: 1.5 kN/m<sup>2</sup>
- ☐ Earthquake load: As per IS-1893 (Part 1) - 2002
- ☐ Depth of foundation below ground: ,0.7 m
- ☐ Walls: 250 mm thick brick masonry walls at external and 125mm walls internal.

### **Reference codes:**

- ☐ IS 456: 2000 - Code of practice -Plain and Reinforced concrete.
- ☐ IS :1893 :2002 - Criteria for Earthquake resistant design of structures(Part-1)
- ☐ IS: 13920: 1993 - Ductile detailing of Reinforced concrete structures subjected to seismic forces.
- ☐ SP: 34 - Hand Book on Concrete Reinforcement and Detailing.
- ☐ S: 875: 1987 - Code of practice for design loads (other than earthquake) for buildings and structures. (Part-2)

NBO 2005



## **Identification of Beneficiaries**

Municipality Municipal Corporation, in consultation with State Urban Development Agency (SUDA), will approve the phasing of the beneficiaries in the region. The beneficiaries so identified and the projects so prepared shall be done in consultation with the committees and community development societies already existing in that particular city. The identification of beneficiaries will be on the basis of the baseline survey already conducted under PMAY Demand Survey.

## **Allotment of Houses**

Allotment of dwelling units will be in the name of the female member of the household. Alternatively, it can be allotted in the name of husband and wife jointly. Ownership of land required for every Beneficiary.

## **Town Planning Norms**

Up-gradation of existing constructions and construction of new houses shall only be taken after approval of the lay out by the urban local body. Respective State Govts. may relax some town planning norms for sanction of such layout Plans, to facilitate HOUSING SCHEME, however, minimum acceptable standards of Town Planning will need to be set and followed.

All planning are done as per UDPFI & CPHEOO guidelines and local Municipal Bye-laws.

## **Compliance with Municipal Bye laws**

All designs & drawings are created keeping in line with the municipal bye laws.

## **Tenure**

Unlike rural areas, land is scarce in urban areas particularly in large metropolises. Under HOUSING SCHEME, the responsibility for providing land for the project rests with the State Government or its agencies.

## Summary of Investment

### Project Costing

The costing for the individual sectors has been made on the basis of applicable Schedule of Rates. The details of each of the sub-projects have been provided in the respective sections.

The cost components include:

*Infrastructure:* Cost of infrastructure development/up-gradation including water supply, sewerage, storm water drainage, solid waste management, roads & drainage, street lights, etc.

*Housing:* Construction Costs would need to be arrived from the various components that are proposed to be implemented and would vary depending on the development option identified.

### Other costs

*Administrative overheads and engineering design:* In addition to the cost of infrastructure, calculated at the current market prices, a reasonable cost should also be estimated for administrative overheads and engineering design.

*Land:* Own land of Beneficiary.

*Operation & Maintenance Costs:* Costs for O&M of assets created under PMAY is permissible. This

### ***Beneficiary Contribution:***

In order to ensure beneficiaries interest, financial contribution by the beneficiaries is critical.. The share of beneficiary contribution in housing is proposed to be a minimum of 25000/-. As per PMAY guidelines no contribution from the beneficiaries is expected in infrastructure improvements.

**State Contribution:**

The decision would be left to the remaining share would have to be arranged by the State. State will contribute 5% of total Dwelling cost for infrastructure.

**ULB Contribution:**

ULB have no contribution on dwelling unit cost. ULB will contribute 5% of total Dwelling cost for infrastructure.

In the 1<sup>st</sup> Meeting of SLSMC of West Bengal it has been decided that the following funding pattern should be adopted for implementation of PMAY until further revision.

Type of City/Towns as per 2011 census	Component	Contribution of			
		Centre Rs.(Lakhs)	State Rs.(Lakhs)	ULB Rs.(Lakhs)	Beneficiaries Rs.(Lakhs)
Total cost of Beneficiary LED Construction	Housing	1.5	1.93	Nil	0.25
	Infrastructure	Nil	5 %	5 %	Nil



## Project Cost and Financing Strategy

### *For Dwelling Unit*

Total Dwelling units within Slum Area= 425  
Total Dwelling units within non-slum Area= 245

Total no of Dwelling unit = 670 Nos

Rate per Dwelling unit = 3.68 Lakhs

Total Cost of Dwelling unit =  $670 \times 3.68 = 2465.60$  Lakhs

Central Share =  $670 \times 1.5$  Lakhs = 1005.00 Lakhs

State Share =  $670 \times 1.93$  Lakhs = 1293.10 Lakhs

Beneficiary Share =  $670 \times 0.25$  Lakhs = 167.50 Lakhs

ULB Share = NIL

### *For Infrastructure*

10 % of total Dwelling unit cost =  $2465.60$  Lakhs  $\times 10\% = 246.54$  Lakhs

Central Share = NIL

State Share =  $50\% \times 246.54$  Lakhs = 123.27 Lakhs

Beneficiary Share = NIL

ULB Share =  $50\% \times 246.54$  Lakhs = 123.27 Lakhs

The total project cost will be 2712.14 Lakhs

Out of these 246.54 Lakhs is the cost of Housing Infrastructure. The following table shows the share of cost between housing infrastructure & Physical Infrastructure.

**Table: Cost Breakup between Housing & Infrastructure**

Sl No.	Component	Cost on Lakhs
1.	Housing Cost (591 Dwelling Units)	2465.60
2.	Infrastructure Cost	246.54
	Total	2712.14

## **Sector wise Monitoring and Implementation Plan**

### **Background**

A strong implementation plan and administration framework is essential for implementation of the identified projects that require strengthening of the Municipal Corporation and evolution of a Community Structure.

Accurate assessment of investment requirements and devising a suitable financing strategy are the key components of any sustainable slum rehabilitation program. Implementing bodies must recognize and measure the various costs of developing infrastructure and housing, including the costs for subsequent maintenance. As the scheme is a collaborative effort of multiple stakeholders, with a few of them contributing financially as well, it is important to estimate the required capital expenditure for developing the infrastructure and improving the housing stock as accurately as possible.

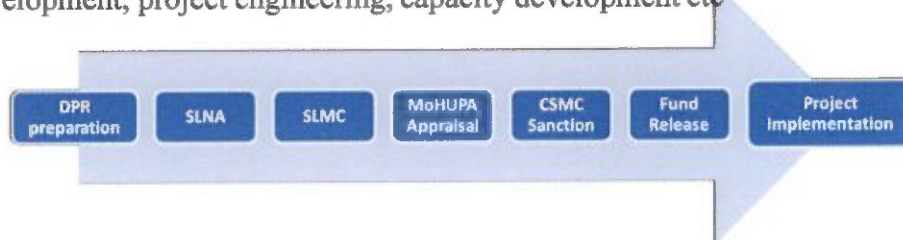
### **National Level**

#### **PMAY Mission Directorate**

There shall be a PMAY Mission Directorate under the charge of a Joint Secretary under the Ministry of Housing and Urban Poverty Alleviation, supported by staff and a Programme Management Unit with experts having expertise in the areas of survey and statistics, computerization and MIS, GIS, Planning, Project engineering, Social development, Monitoring and evaluation etc. for ensuring effective co-ordination with State Governments for expeditious processing of the State Slum-free PoAs and project proposals and providing handholding support to States/UTs.

### State PMAY Mission Director

The State Level Nodal Agency for PMAY/SUDA, West Bengal will have coordination of all scheme and reform-related activities more than one department handling Urban development, Local self government, and Housing. SLNA. The Mission Directorate supported by a team of dedicated professionals having expertise in the fields of GIS, MIS, town planning, community development, project engineering, capacity development etc



### Barrackpore Municipality

The Municipality shall act as the implementation agency for the project. Keeping in mind the criticality of the project, a dedicated '**Bustee Works Management Committee (BWMC)**' has been set up for implementation and operation & maintenance (O&M) of the proposed infrastructure under the scheme.

The BWMC will have representatives of local councillor, Chairman-in-Council, municipal engineers, town project officer, community organizers and member from the local slum dwellers.

Some of the responsibilities of BWMC are listed below:

- i. Delineation of poverty pockets in this town to execute the scheme.
- ii. Recruitment of community organizers
- iii. Guiding and assisting the community organizer to form neighbourhood group (NHG) and for identification of RCVs.
- iv. Formation of NHCs and CDs.
- v. Constitution of town level planning and monitoring committee (TLPMC).
- vi. Liaison with CMOH and other concerned district level officers and NGOs for conference.
- vii. Regular contact with SUDA and Department of Municipal Affairs.
- viii. Convening meeting of TLPMC to take stock of programme



implementation and convergence.

- ix. Dovetail all poverty alleviation programmes with IHSDP.
- x. Obtain regular feedback from CDS and send the required monthly progress report to SUDA by the end of first week of the next month in the prescribed MIS format.

### **Participation through Beneficiary committees**

People's participation in municipal planning and development is critical and shall be ensured through of Ward Committees in each ward irrespective of their population and size.

The Ward Committee Rules have also been framed in such a way so as to ensure involvement of the members of the Ward Committees in the overall municipal administration and resource mobilization. The Ward Committee created especially for the purpose of PMAY will be headed by the Councillor of the Ward, who would in turn submit the report of progress to BWMC.

Some of the responsibilities the Ward Committee will be:

- i. Supervision of the physical progress of the work under the project
- ii. Designating in-charge, who would be held responsible for individual scheme under the project
- iii. Collecting user charges for operation and maintenance (O&M) activities
- iv. Ensuring proper maintenance of each of the assets that is created under the project

### **Participation through Community Based Organization**

Participation of poor families in planning and implementation of slum level Basic Infrastructure Development as well as Socio-Economic Development has been ensured through formation of Community Based Organization. The Ward Committee will also have representative of weaker community. Similar structure have also been involved by the municipalities in providing civic services like conservancy services, maintenance of street light, etc. municipal administration and resource mobilization.

However, basic guidelines, which will be followed in implementation of the projects, are been laid down below:

## Social Infrastructure

In order to provide preventive health care, mother and childcare, supplementary nutrition, referrals and so on, a cost effective but sustainable community infrastructure or institution needs to be developed.

In the first step, community health facilities will be provided from centrally located Community Seva Kendra in slum pockets and for different type of imparting education and other training purpose, Community Centre will be put in place.

The Community Seva Kendra will be the hub of all activities of the Unit like: immunization, health-check up of pregnant women, growth monitoring, referrals, nutrition supplementation, awareness training and campaign and so on, besides other activities like Balwadi, NFE, cultural activities etc. Some part time medical staff may be posted for these Units in the slum pockets and some help from trained medicos will essentially be needed for services like health check up of pregnant women and children, and immunization.

Thus notwithstanding the guidelines in this regard, following alternatives will be tried:

- ☐ Creation of a dedicated cell for administrative activities and maintenance of the Community Seva Kendra
- ☐ Assistance from some NGOs like Rotary, Lions, IMA, etc.
- ☐ Request to the district outfit of the Health and Family Welfare Department to depute doctors to the UHC by rotation for 2-3 hours, three times a week.
- ☐ Engage duly certified inoculators or health workers for immunization only on the basis of token honorarium.
- ☐ Engage private medical practitioners who are motivated to provide service to the poor community and pay them token honorarium in recognition of their service.

## Physical Infrastructure

The Ward Committee will not only be supervising and monitoring the progress of the activities, but shall be actively involved in scheme implementation and in mobilization of funds. The Ward Committee will have teams for individual physical infrastructure projects who shall be held responsible the scheme in the slums in the ward. Primary activity of the Committee for schemes is provided below in details.

- i. Assess water supply needs and identify spots for tap.
- ii. Develop water supply plan.
- iii. Train RCVs in hand pump maintenance.
- iv. Develop slum level water and sanitation

committee.

- v. Test water quality periodically.
- vi. Construct platform around each hand pump that does not have it already.
- vii. Identify needs for community bathing cubicles for women and selecting ideal spot for constructing the same
- viii. Identify sites for building community toilets cum water points.
- ix. Link community toilets to biogas plant (on experimental basis).
- x. Improve the conditions of drains, soak pits and solid waste disposable bins.

### **Other Environmental Improvement Measures**

- i. Organise hygiene and sanitation drives in slums.
- ii. Sports, games and cultural activities
- iii. Encourage local NGOs/clubs to create facilities for games and athletics for the children and youth.
- iv. Give support to the above by providing materials for games, etc.
- v. Organize annual sports and tournaments.
- vi. Organize facilities for learning music and dramatics.
- vii. Organize annual competition of music, recitation, drawing, drama, etc.

### **Creating income and employment opportunities for women**

- i. Identification of marketable skills for women.
- ii. Arrange skill training with fund available under SUME of NRY.
- iii. Arrange credit-subsidy under SUME to enable the trained women to start and operate micro enterprise.
- iv. Arrange for supply of inputs and marketing of finished products.
- v. Thrift and Credit Society Formation
- vi. SHG Formation
- vii. DWCUA Formation

## **Housing**

### **Monitoring**

Officers dealing with HOUSING SCHEME at the State headquarters shall visit the slums regularly and ascertain through field visits whether the programme is being implemented satisfactorily and whether the construction of houses is in accordance with the prescribed norms. . A schedule of



inspection which prescribes a minimum number of field visits for each supervisory level functionary from the State level to the corporation level shall be drawn up and strictly adhered to.

### **Evaluation Studies**

Periodic evaluation studies on the implementation of HOUSING SCHEME shall be carried out by reputed institutions and organizations on issues identified during concurrent evaluation and reviews. Copies of these studies should be furnished to the Govt. of India. Remedial action shall be taken on the basis of the findings of these studies.

### **Modality of implementation**

Before implementation it will be ascertained that either the property title in the name of the female member of the family or at least the female family member is the co-owner of the holding/property.

### **Transparency in implementation of Housing Scheme**

The list of items on which information would be made available to people to bring about greater transparency at the State, District and Corporation levels is given below:

- i. List of people below poverty line in the urban area.
- ii. List of beneficiaries identified during the preceding year and current year including details of SC/ST, BC, women beneficiaries and physically and mentally challenged persons under HOUSING SCHEME. Allocation made to the State under VAMBAY
- iii. Guideline of HOUSING SCHEME/ Criteria for selecting beneficiaries.
- iv. Display of HOUSING SCHEME signboard / logo on the allotted houses.

## **Monitoring & Evaluation**

PMAY will be monitored at three levels: City, State and Government of India. In particular,

- ☐ Ministry of Housing and Urban Poverty Alleviation will periodically monitor the scheme.
- ☐ State Nodal Agency would send Quarterly Progress Report (on-line) to the Ministry of Housing and Urban Poverty Alleviation.
- ☐ Upon completion of a project, the State Nodal Agency, through the State Government, would submit completion report to the Central Government.
- ☐ Central Sanctioning-cum-Monitoring Committee will meet as often as required to sanction and review/monitor the progress of projects sanctioned under the Mission.
- ☐ States/Cities will be facilitated through independent quality control/ assurance/ third party teams at various levels that may be outsourced to specialized/technical agencies.
- ☐ Monitoring of projects by States/Urban Local Bodies by conducting Social Audit

in conformity with guidelines to be prescribed, right from the stage of project preparation.

- The processes of implementation will be monitored by undertaking concurrent evaluation through reputed independent institutions to ensure that corrections to distortions, oversights or shortcomings can be made in time.

## **Convergence of Health and Education**

### **Health**

Development Objectives for the Health Care Service Delivery Improvement Plan. Some of the development objectives, which the Barrackpore Municipality address through their Health Care Service Delivery Improvement Plan, are as follows:

#### **Theme 1: Public Health Services:**

- i. Better coordination with State Government hospitals and dispensaries for maintaining a better referral system.
- ii. Improve the asset and human resource utilization pattern of health services such as ambulance services, dispensaries etc.
- iii. Ensure that all types of cooked / uncooked food in the Municipal Corporation area are sold by licensed food sellers to prevent spread of diarrhoeal and other disease in the area.
- iv. Strengthening and developing Health Management Information System.
- v. Exploring opportunities for strengthening decentralization and other public private partnerships in providing such public health services
- vi. Partner with leading private sector providers of medical services for better utilisation and maintenance of medical infrastructure such as municipal dispensaries, maternity homes.

#### **Theme 2: Reproductive and Child Health Care Services:**

- i. To establish quality antenatal care to 100% of the slum women.
- ii. To establish 100% institutional delivery for all women living in slums.
- iii. 100% immunization of infants against six killer diseases within 12 months of birth.
- iv. Making sterilization services available by way of improving efforts related to family planning.
- v. Formulate a wider basket of services aimed at providing health priorities within the RCH domain that have not been adequately addressed, as well as some health priorities outside the RCH domain which are major contributors to the burden of disease and impoverishment are included.
- vi. Spreading health awareness through various methods of communication not only to the beneficiaries of the Programme but also to the excluded groups and areas within the wards.



## **All other Government Programmes for Preventive Health Care and other Independent**

### **Initiatives taken by the ULB:**

- i. Promotion of hygienic measures to lead to reduced diarrhoeal disease with prompt and appropriate care and reducing household expenditure on recurrent diarrhoea.
- ii. Increase the coverage of vector control operations by rationalizing the use of assets and human resources available.
- iii. Effective implementation of Government Programmes to achieve the targeted goals and objectives.
- iv. The following schemes under implementation by the State Govt. in the social sector can be dovetailed and integrated with the IHSDP Program to ensure effective slum development. The Socio Economic Survey has already identified beneficiaries under the scheme.

### **RCH & IPP VIII Extension:**

A surveillance program initiated by the State Govt. after completion of the World Bank Assistance in the two schemes. Main objective is to provide Health care facilities at the door steps of the slum dwellers / BPL Population, with emphasis on Mother and child health, preventive cares and immunization, Institution delivery, birth control.

### **Health Program under DFID Assistance:**

With the same objective as above with decentralization of health care activities by formation of Health sub centers, which can be operated from the Community Seva Kendras, proposed earlier.

### **Education**

The Municipal Corporation has been actively implementing key initiatives in the Education sector through convergence with the following objectives:

- ☐ Improvement Of the Status & Infrastructure & Basic Service in Primary Schools under Municipal Corporation.
- ☐ Achieving 100% enrolment in schools for next 5 years.
- ☐ Enhancing the quality of education provided in pry school with respect to student performance & teaching quality.

- ☐ Leveraging the existing resources created under the NSDP and other programme and increase the coverage in excluded committee and squatter settlements
- ☐ Achieving higher enrolment of children in age group of 6-14 in SSK centres
- ☐ Strengthening Parent Teacher Association and involving community participation in improving the performance of school
- ☐ Creating awareness in the community through the existing community structures (NHG, NHC, CDS members) on the importance of primary and adult education.

Extensive training programme for teachers & sahayekas is being organized for improvement of quality teaching. Construction, extension and repair of SSK buildings must be done so that a greater portion of children aged 5 to 14 yrs can attend there.

**SSA :** 'Sarba Siksha Abhiyan' – a scheme meant for '*education for all*'

**SSK :** 'Sishu Siksha Kendra' – Mainly aimed at offering free primary education to the poorer section of the community.

**Mid-day Meal:** A program initiated to central the drop out rates, has been found success since its initiation.

### **Social Security**

The following Social Security Schemes under State Plan are proposed to be integrated with the current program through convergence:

**Adult Education:** To promote self-dependability.

**Thrift and Credit Society:** For easier Credit and Finance availability.

**Self Help Group:** To promote self and micro entrepreneurship.

**DWCUA:** Upliftment of the life style and self-independency of Women Group.

**Annapurna:** To provide food stock at reduced price to the poorer section of the Community.

**Antyoday Anna Yojana:** To provide food stock free of cost to the older section of the community.

## Environment Impact Assessment

<b>IMPACT &amp; REMEDIES</b>		
1.	Utilization of alternative material Characteristics and availability of alternative material	Locally available bricks etc. will be used.
2.	Rehabilitation of water bodies & measures for maintaining surface runoff smoothly	No water body is affected by the alignment of road. The road side open C. C. / Brick masonry drains have been provided for free flow of storm water.
3.	Measures for Erosion Control	Not applicable for the slum area.
4.	Conservation of Topsoil a. Extent of loss of topsoil b. Area requirement for topsoil conservation c. Inclusion of conservation of topsoil d.	Not applicable for the slum area.
5.	Impact on Heritage & Culture a. Identification of locally significant cultural properties b. Assessment of likely impacts on each cultural property due to project implementation c. Possible measures for avoidance i) Identification of alternative routes ii) Relocation of Culture property in consultation with the local community iii) Common Property iv)	Question does not arise.
6.	Location of Natural Habitants	It will not be disturbed
7.	Construction of site office / Camp	Temporary construction of camp / office shall be established by contractor and since the project is small and scattered, the temporary impact on environment for Construction Camp / office at the time of execution of work is negligible.
8.	Quarrying of Materials a. Sourcing of materials from quarries b. Lead from various existing quarries c. Adequacy of material for the project in these quarries	The construction materials require for the project shall be procured from : a) Stone metal : from the existing. b) Bricks : From the existing brick fields nearby the project site. c) Sand : From the nearest source. All the materials are sufficiently available.
9.	Water Requirement; Identification of potential sources of water	Water required for the construction of work will be available from ground water. There is no scarcity of water in the region.



<b>IMPACT &amp; REMEDIES</b>		
10.	Location of Waste Water Disposal : a. Location for disposal of waste water	The surface drain have been proposed in the slum for disposal of waste water.
	b. Outfalls locations for longitudinal drains  i) Outfall level and back flow  ii) The outfall is in natural stream; measures shall be taken to prevent sediment into the stream.	Natural slope of the ground will be maintained for waterways for discharge of surface runoff. No possibility of back flow except in the case of heavy flood.  The storm water drain of the slums will discharge the water to the main high drain of the town.
11.	Air Pollution during construction work	Work shall be carried out by equipments like concrete mixer machine vibrator etc. at this time of concerting work only for which air pollution will be negligible.
12.	Identify locations susceptible to induced development	Locations vulnerable to induced development: In such location the Municipality has committed not to allow building construction activity. a. Lands within 50 m of junctions b. Agricultural lands with enforce restriction on building activity on either side of road. Stretches within 100m of worship places, weekly fairs and locations of community mass gatherings.
13.	Roles and responsibilities of municipality in regulating development	The municipality shall lay down restrictions on building activities along the by-pass roads : 1. Municipality will enforce restriction on building activity on either side of road. 2. Development of Residential sites outside Existing Settlement. Appropriate measure towards the removal of encroachments onto the public land to be taken.
14.	Traffic Congestion and related air & noise pollution	As the road passes through the slum area of the town and two wheelers, Three wheelers, light vehicle will move hence there will not be any traffic congestion, related air & noise pollution.
15.	Opportunity in economic activities due to ease of transportation system	The benefits due to this project are : 1. Generation of Man days 2. Improvement in Household or population sector i.e. Improvement of personal health, hygiene, socio- economic condition, education etc.

## Operation & Maintenance

### *Formulation and Implementation of "Operation and Maintenance Plan for Slum Level Infrastructure work"*

#### *Background*

It is recognized that the assets created in slums are required to be properly used and maintained. For

this purpose, 'Operation and Maintenance Plan' for the slum is being prepared

#### *Formulation and implementation of O&M Plan*

1. The assets created in project area are required to be properly used and maintained.
2. For this purpose each ULB will formulate and implement a fully resourced 'Operation and Maintenance Plan' for project area where infrastructure works have been undertaken from BSUP funds.
3. The following steps will be taken prior to preparation of the 'Operation and Maintenance Plan' for each slum :
  - a) The ULB along with the CDS working in the Slum where infrastructure works were performed will arrange a meeting (1st) with all slum dwellers of that particular slum.
  - b) At this meeting the Local Councillor, Chairman-in-Council or Chairman-in-Council of  
  
slum development work, Municipal Engineers, Town Project Officer, Community Organiser, CDS members and RCVs of that particular slum will be present. Other members / officials as felt necessary may also be present.
  - c) At this meeting the need for formation of Bustee Works Management Committee (BWMC) for looking after 'Operation and Maintenance Plan for Slum Level Infrastructure work' will be explained to the slum dwellers.
  - d) The stock of work done and assets created under slum level infrastructure works of that particular slum will be listed at this meeting.
  - e) At this meeting the ULB will brief the slum dwellers about the constitution, role and functions of the BWMC.
  - f) A similar next meeting (2nd) will be held at which the BWMC will be elected as per

constitution through informal election. If one meeting is not sufficient more such meetings may be arranged.

- g) Minute of each meeting with signature of the participants should be maintained.



## **Constitution & functions of the Bustee Works Management Committee (BWMC):**

- a) The BWMC will consist of minimum 5 members, all of whom will be resident of that particular slum.
- b) In addition, one RCV from that slum will be member.
- c) There will be at least two female members in the BWMC.
- d) The members of the BWMC may be from BPL / APL or both.
- e) At least one member will belong to a Neighbourhood Group (NHG) from that slum.
- f) The BWMC will be elected through an informal process of election.
- g) There must be good publicity to ensure wide attendance.
- h) At least 40% of slum dwellers must be present in the meeting during election of BWMC.
- i) The BWMC will be an independent body. The ULB will be responsible for overseeing the work of BWMC.
- j) The BWMC will hold office for a period of two years, after which a new committee will be elected. If any member resigns or moves out of the slums or is incapable of functioning for any reason, another member will be elected in his / her place within one month.
- k) Each BWMC will open and operate a separate bank account. This bank account will function as the O&M fund for that slum.
- l) The BWMC will be authorized by the ULB to raise funds for O&M as is elaborated under item no. 13.
- m) The ULB will make matching contribution against the fund raised by the BWMC through user charges to encourage the process.
- n) The BWMC will report to the slum dwellers in a meeting held once in six months on revenue, expenditure and maintenance issues. This meeting will be attended by Local Councillors, ULB Officials & Engineers, Community Organizer, Town Project Officer, CDS member.
- o) There must be an agreed upon O&M Plan between the ULB, CDS and BWMC for the assets created in that particular slum under IHSDP as listed in 1st meeting.
- p) They will need interim hand holding which will be extended by the ULB by providing their technical person and accounts person for technical and accounts support. Otherwise the ULB can take help of local NGOs / CSOs for providing support to BWMC.
- q) Chairman, Secretary and Cashier will be selected within the BWMC. Bank account

will be operated by any two of them jointly.

- r) The existing Beneficiary Committee will cease after the BWMC is formed.

### **Maintenance: Water**

#### **Supply: Routine**

maintenance

- a) Daily cleaning
- b) Petty repair
- c) Periodical testing of water

Petty repair involves mainly replacement of street stand posts, repairing of hand pump and platform. It is to be ascertained by the ULB / Bustee Works Management Committee (BWMC) how much money is roughly required per month for meeting the cost of this petty repair, daily cleaning and periodical testing of water. The cost of petty repair works and daily cleaning is to be met from collection of fund from the Beneficiaries.

The Bustee Works Management Committee (BWMC) will supervise this „Daily cleaning and petty repair work“.

### **Sanitation:**

#### **Community**

##### **latrine**

Daily cleaning and petty repair work:

- ☐ It requires daily cleaning (once, twice or more) by engaging a sweeper on contract.
- ☐ Replacement of Bib cock and other petty repairing work

It is to be ascertained by the ULB / BWMC as to how much money is required per month for carrying out the work of item (i & ii). The cost of item (i & ii) is to be met from ULB fund / Beneficiary Contribution / or a combination of both in every month. This decision may be taken. The BWMC is required to collect the contribution from Beneficiaries every month and supervise the work.

#### **Major repair and maintenance work:**

Periodical maintenance of latrine structure by way of plastering, colour washing, door, window, floor repairing, replacement of broken (W.C.) pan, cleaning of septic tank etc

Major repair and maintenance work will be implemented by the ULBs from their fund by engaging CDS / contractor or ULB staff.

## **Drainage**

:

Petty repair, operation and maintenance:

It requires cleaning at least once or twice in a week and occasional petty repair. This work should be executed by the BWMC, for which the BWMC will first decide how much money will be required in every month for getting this work done. Once the amount is ascertained, the ULBs will decide whether this expenditure may be fully met from the contribution of the Beneficiaries only or proportionately shared by ULB and Beneficiaries. The BWMC will collect the contribution from Beneficiaries. It is to be decided how the contribution be collected. The BWMC will supervise the work.

Major maintenance and repairing work like plastering, reconstruction of damaged portion and other works may be needed from time to time.

Major maintenance and repairing work will be executed by the ULBs from their fund by engaging CDS / contractor or ULB staff.

## **Road:**

Maintenance of Concrete paved road:

Sweeping, petty repair and maintenance will be implemented by the BWMC for which they will collect contribution from Beneficiaries.

## **Solid waste management:**

1. Daily door to door collection and depositing to the nearby container / trailer
2. Will be done by the ULB with existing staff. The staff engaged for this work will report to the BWMC who will supervise their work. The BWMC will maintain the attendance of the staff attending the work and report on weekly basis to the ULB regarding their attendance and performance. BWMC will first assess how much money will be required every month. The BWMC will collect the contribution from Beneficiaries every month. BWMC will supervise the work.
3. Transporting from container / trailer to dumping / composting ground
4. The ULBs will execute the work from their fund.

## **Duties of BWMC**

1. They will maintain a register showing the existing services / structures under their control :
  - i. **Water supply**
    - a) What is the length of water line



- b) What is the diameter and material of water line
- c) How many stand posts are there
- d) How many small dia-deep tube wells are there and their status (functioning / defunct)
- e) How many big dia deep tube wells are there and their status (functioning / defunct)

They will maintain a register for keeping stock of materials which are often required for day to day maintenance work like bib cock, short pipe for stand posts etc.

**ii. Sanitation, Drainage, Solid waste management, Community Centre**

- a) They will maintain a register showing number of existing community latrines, Community Seva Kendra and community centres under their control with their status. They will also maintain a register of consumable goods like Muriatic acid, brush, broom, towel, soap etc. which will be required for maintenance purpose.
- 2. They will maintain an attendance Register for the persons attending duties. They should also maintain a register of income (collection) and expenditure.
- 3. The Bustee Works Management Committee (BWMC) will be responsible for awareness generation amongst the slum dwellers for upkeep and maintenance of the assets created.

**Function of ULB for O&M work through BWMC:**

- i) Formation of Bustee Works Management Committee (BWMC) through a process of election.
- ii) One cashier to be elected among the BWMC for keeping accounts.
- iii) O&M Plan as per format to be discussed with all slum dwellers and agreed and a Tripartite Agreement signed by ULB, CDS and Bustee Works Management Committee.
- iv) ULB to pass the O&M Plan by Board of Council and earmark funds as required.
- v) ULB to allot work to one engineer and one accounts person to supervise, implement of O&M Plan and keep in regular touch with the BWMC to ascertain and solve minor problems. Local councillor may also be asked to supervise along with the engineer and liaise with the BWMC.
- vi) Necessary corrective action from time to time may be taken by ULB.

## Proposed funding pattern for O&M work by BWMC

Under PMAY Projects, guidelines indicate that, O & M cost of first five years. This should be applicable to Cost of Buildings i.e. group housing, community centre etc. The beneficiaries should form a Residents Welfare association who should be responsible for maintenance of residential buildings, community facilities beyond the first five years. As far as the infrastructure viz. Roads, drains, street lighting, Water supply, sewerage is concerned the O & M becomes part of city wide infrastructure. However it is considered appropriate that beneficiaries would pay user charges for infrastructure for which the concerned authorities should work out appropriate User charge with suitable cross subsidy. In addition, the administrative arrangement for attending to complaint and regular maintenance to ensure on time maintenance also needs to workout.

Future year's operation and maintenance will be met out from a mix of user charges and ULB funding.

Arrangement for training to the members of the BWMC for petty repair, operation and maintenance work should be made by the ULB.

### Central Share

A cost for O&M of assets created under PMAY is permissible. This has been fixed at 2% of the approved project cost of which the Central share would be 50% i.e. 1% of the approved project cost.

Future year's operation and maintenance will be met out from a mix of user charges and balance from ULB funding

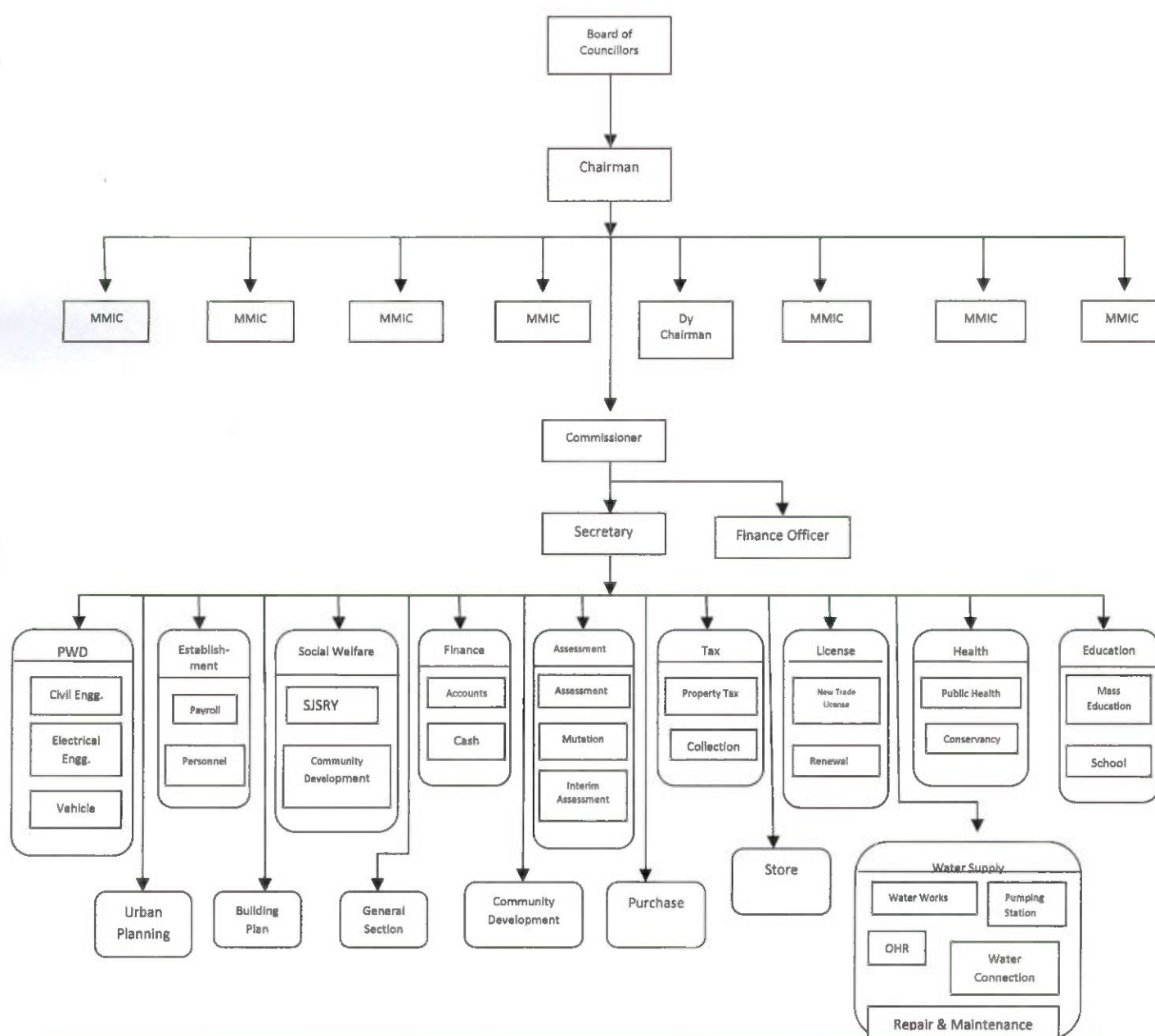
Budget of Operation and Maintenance of Assets created Under Pradhan Mantri Awas Yojana Housing for All (Urban) for 60 months ( O &M Started 3rd year from the date of construction						
Sl.no	Description of Field	Quantity	Unit	Rate per month(Rs.)	Months	Amount (Rs. in lakhs)
A	Operational Personnel	Service of Municipal Staff to be Utilized				
1	Junior Engineer					0
2	Plumber					0
3	Electrician					0
4	Gardener					0
	Sub-Total					0
B	Repair of Housing & Infrastructure					
1	Housing	670	Nos.	21815	60	13.09
3	Drainage	5390	Mtr	8813	60	5.29
4	Road	6316	SqMtr	27682	60	16.61
	Sub-Total					34.99
	Total Expenditure(A+B)					34.99

Budget of Operation and Maintenance of Assets created Under Pradhan Mantri Awas Yojana Housing for All (Urban) for 60 months ( O &M Started 3rd year from the date of construction)						
Sl.no	Description of Field	Quantity	Unit	Rate per month(Rs.)	Months	Amount (Rs. in lakhs)
C	Income Generation					
1	Beneficiaries Subscription	591	Nos.	80	60	28.37
2	Municipality Subsidy			11033	60	6.62
	Sub-Total					34.99
	Total Earning( C)					34.99
	Surplus/Deficit C-(A+B)					0.00



## Institutional Capacity

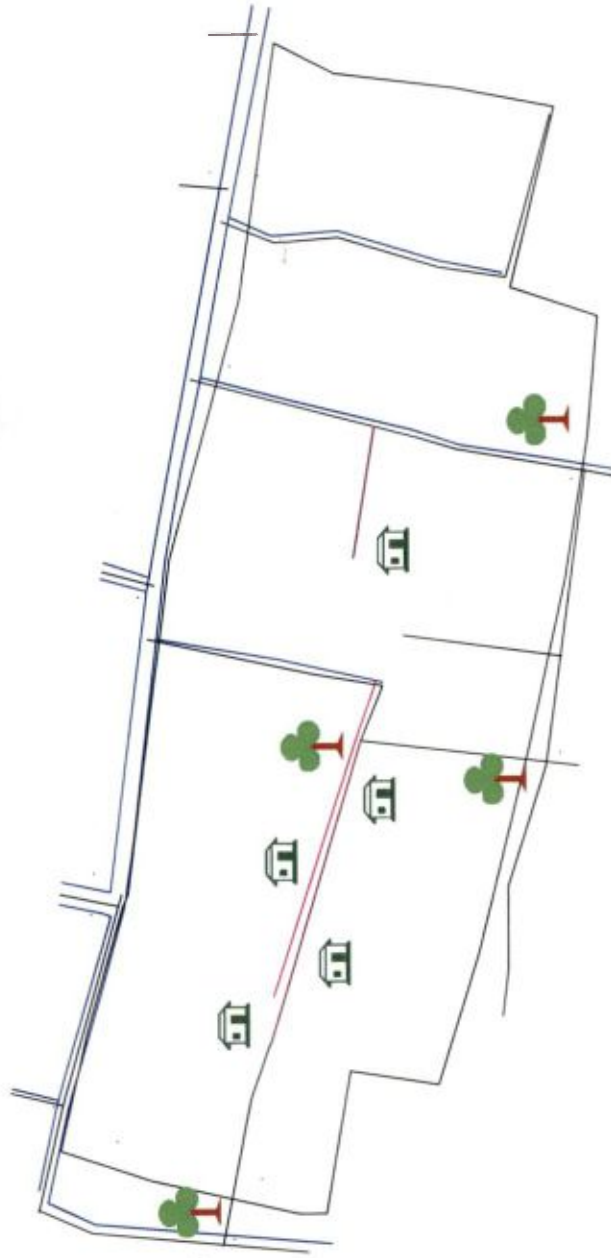
**Municipality Municipal Corporation**, with its elected local body in place, has developed institutional strength to implement, operate & maintain proposed infrastructure. The Municipality spreading over an area of 154.2 square kilometres is comprised of 43 wards. With efficient and trained manpower, the Municipal Corporation has developed both technical and administrative skills. The development of appropriate municipal organizational structures with qualified staff is essential if municipalities are to provide cost effective services to citizens. With local government reform municipalities are required to take on new tasks, and provide new services. This will only be possible if municipalities have cost-effective and appropriate structures and staff that are well qualified and highly motivated. The municipalities should plan in such a way so as to ensure that they can meet the needs of citizens effectively and efficiently.



The Municipal Corporation is entrusted with the responsibilities of providing the following civic services and infrastructural facilities to the citizens:

- **Solid Waste Management**
- **Markets**
- **Birth and Death Registration**
- **Storm Water Drainage and Flood Control.**
- **Crematoria and burial ground**
- **Parks and Playgrounds**
- **Prevention of food adulteration**
- **Plantations**
- **Preventive Health Care and Health Care**
- **Town Planning**
- **Services**
- **Slum Improvement and Urban Community**
- **Roads and its development**
- **Development**
- **Widening & improvement to roads**
- **Education**
- **Street Lighting**
- **Water**
- **Bus Stands, Public Urinals**
- **Beautification**
- **Auditoriums**

# South Belayet Ali & A K Road Joint Bustee



PROPOSED LAND USE				
SULM- South Belayet Ali & A K Road Joint Bustee				
SULM CODE- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PURCA	SEMI PURCA	KUCHHA	UNIT
	SYMBOL		SYMBOL	
DWELLINGHOUSE(NDIS)				SQDS
BLACK TOPPED ROAD (Sq.M)				
PROPOSED CONCRETE ROAD (Sq.M)				SQMD
DRAINAGE(M)				37/60
PIPELINE(M)				

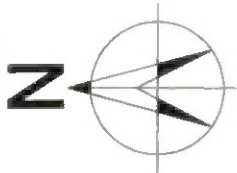
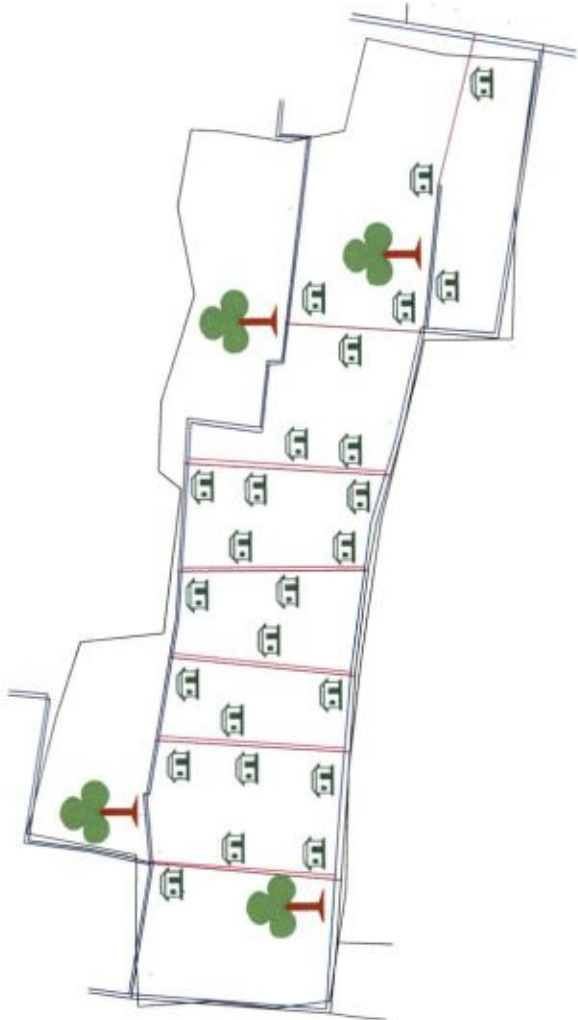
Uttam Das  
Chairman  
Barrackpore Municipality

Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality





Shyamasree Pally Ghosh Para Bustee



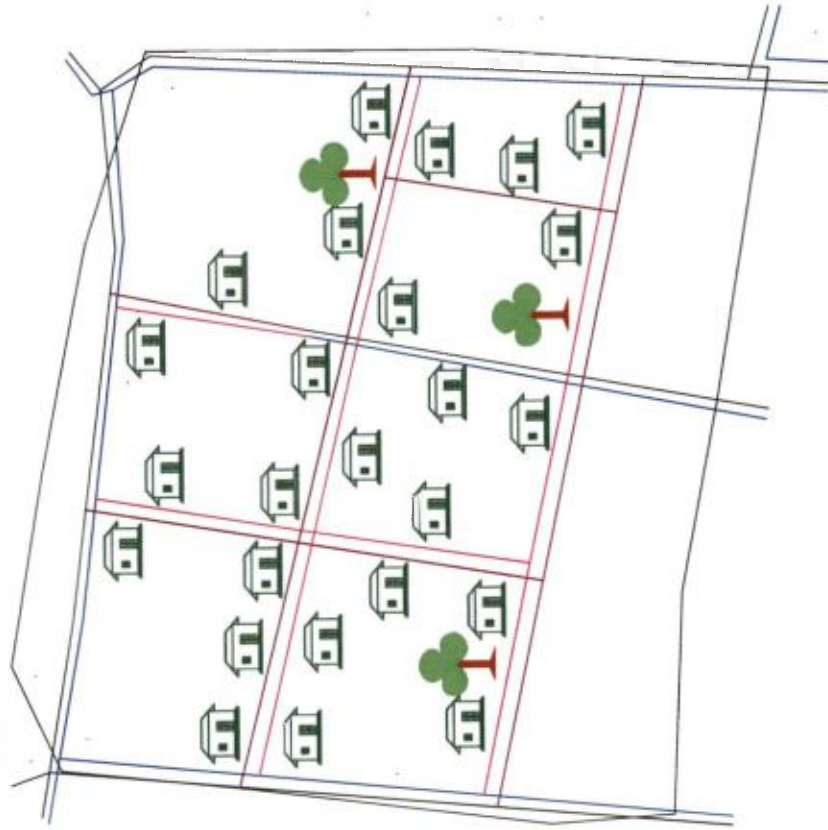
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

Uttam Das  
Chairman  
Barrackpore Municipality



PROPOSED LAND USE				
SULM- Shyamasree Pally Ghosh Para Bustee				
SULM CODE:- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PUCCA	SEMI PUCCA	KUCHHA	UNIT
	SYMBOL		SYMBOL	
DWELLINGHOUSE(NDS)				25NDS.
BLACK TOPPED ROAD (Sq.M.)				
PROPOSED CONCRETE ROAD (Sq.M.)				243(M)
DRAINAGE(M.)				196(M)
PIPELINE(M.)				

# Sahid Sarani Bustee



*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality



## PROPOSED LAND USE

SULM- Sahid Sarani Bustee

SULM CODE:- 0

BARRACKPORE MUNICIPALITY

## LEGEND

ITEMS	PUCCA SYMBOL	SEMI PUCCA	KUCHHA SYMBOL	UNIT
DWELLINGHOUSE (NOIS)				25 NOS.
BLACK TOPPED ROAD (Sq.M.)				236.40
PROPOSED CONCRETE ROAD (Sq.M.)				201.00
DRAINAGE (CM.)				
PIPELINE (CM.)				

# Rashmani Ghat Bustee



Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

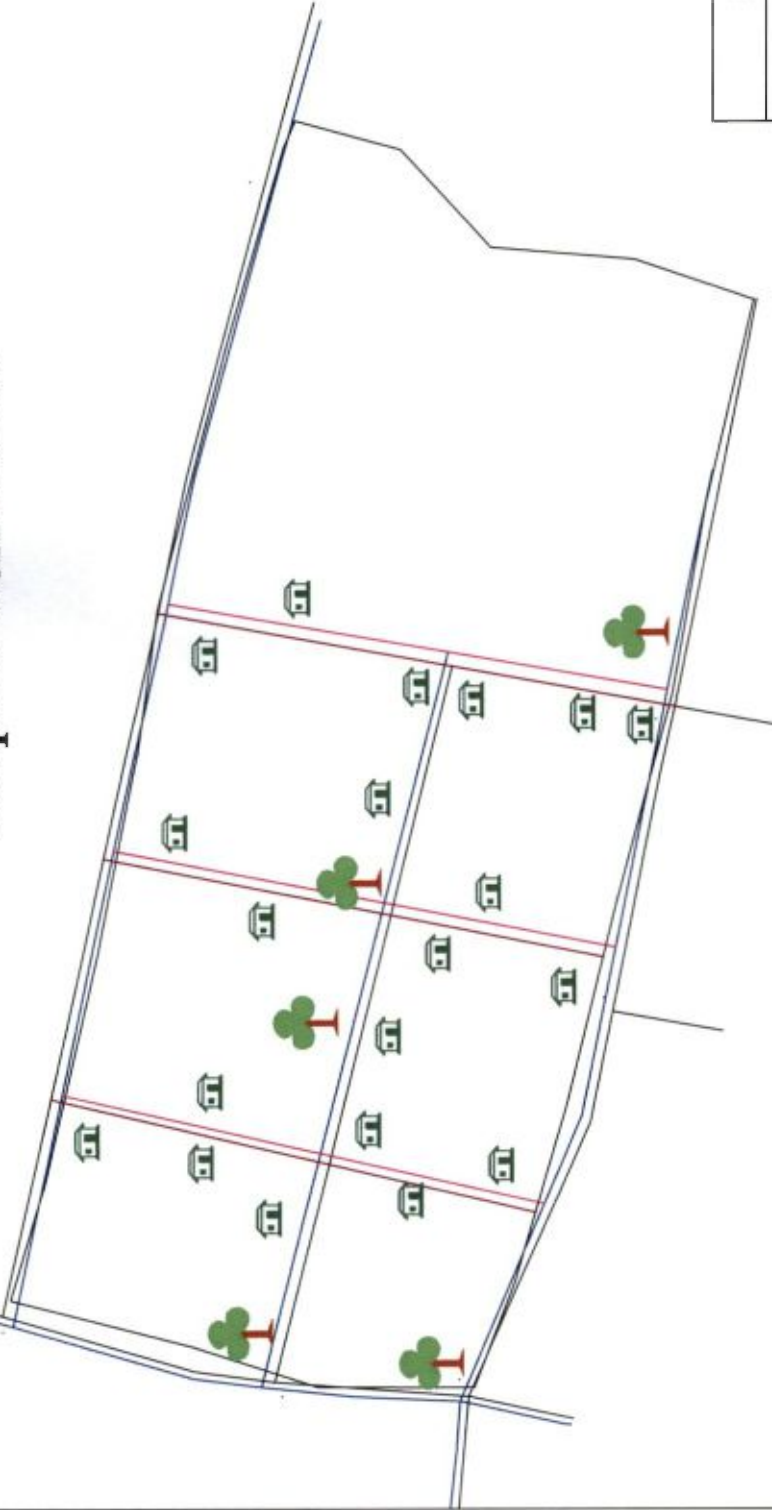
Uttam Das  
Chairman  
Barrackpore Municipality



PROPOSED LAND USE					
SULM- Rashmani Ghat Bustee					
SULM CODE:- 0					
BARRACKPORE MUNICIPALITY					
LEGEND					
ITEMS	PUCCA		SEMI PUCCA		UNIT
	SYMBOL		SYMBOL		
DWELLINGHOUSE(NDIS)					NOGS.
BLACK TOPPED ROAD (Sq.M)					
PROPOSED CONCRETE ROAD (Sq.M)					2200
DRAINAGE(M)					1400
PIPELINE(M.)					



# Panpara Veri Bustee



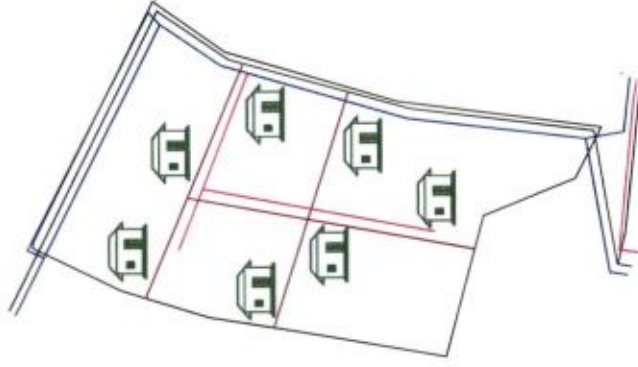
*(Signature)*  
Uttam Das  
Chairman  
Barrackpore Municipality

*(Signature)*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality



PROPOSED LAND USE				
SULM- Panpara Veri Bustee				
SULM CODE:- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PUCCA		SEMI PUCCA	
	SYMBOL		SYMBOL	
DWELLINGHOUSE(INDS)				
BLACK TUPPED ROAD (Sq.M)				
PROPOSED CONCRETE ROAD (Sq.M)				
DRAINAGE (M)				
PIPELINE (M)				
				ENDS.
				178000
				168000

# Panpara Adivasi Bustee



*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality



PROPOSED LAND USE				
SULM- Panpara Adivasi Bustee				
SULM CODE:- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PUCCA		SEMI PUCCA KUCHHA	
	SYMBOL		SYMBOL	UNIT
DWELLINGHOUSE(ND)				7NDIS.
BLACK TOPPED ROAD (Sq.M)				
PROPOSED CONCRETE ROAD (Sq.M)				83(M)
DRAINAGE(CM)				45(M)
PIPELINE(CM)				

# Pal Para Bustee



*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality

PROPOSED LAND USE				
SULM- Pal Para Bustee				
SULM CODE:- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PUCCA	SEMI PUCCA	KUCHHA	UNIT
	SYMBOL		SYMBOL	
DWELLINGHOUSE(NOS)				7NOS.
BLACK TOPPED ROAD (Sq.M.)				
PROPOSED CONCRETE ROAD (Sq.M)				83(M)
DRAINAGE(M.)				45(M)
PIPELINE(M.)				






# P.K.Das Road Bustee



PROPOSED LAND USE									
BOLAL- P.K.Das Road Bustee									
BULAL CODE- 0									
BARRACKPORE MUNICIPALITY									
LEGEND									
ITEMS	SYMBOL	PUDCA	SDA	PUDCA	ELCHHA	SYMBOL	UNIT		
DWELLINGHOUSES									
BLACK TOPPED ROAD									
GRASS									
PROPOSED CONCRETE									
ROAD GRPS									
DRAINAGECH									
PIPELINECH									

  
 Uttam Das  
 Chairman  
 Barrackpore Municipality

  
 Supriya Halder  
 Sub-Assistant Engineer  
 Barrackpore Municipality

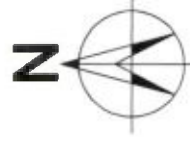


# North Sita Parshi Bustee



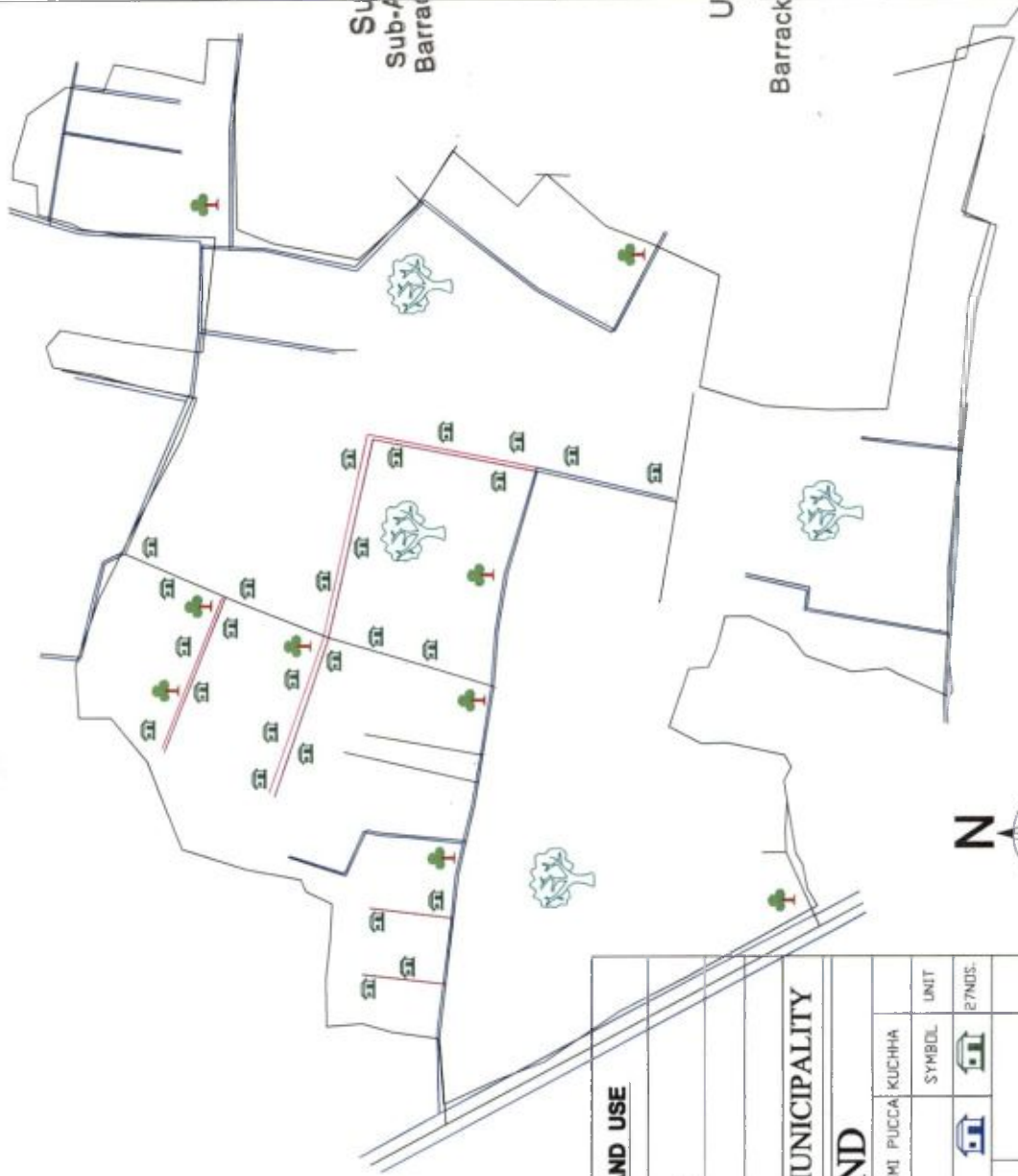
*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality



PROPOSED LAND USE				
SULM- North Sita Parshi Bustee				
SULM CODE:- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PURCA	SEMI PURCA	KUCHHA	UNIT
	SYMBOL		SYMBOL	
DWELLING-HOUSE (INDS)				200DS.
BLACK TOPPED ROAD (Sq.M)				
PROPOSED CONCRETE ROAD (Sq.M)				178000
DRAINAGE (M)				168000
PIPELINE (M)				

# Mondal Para Bustee-1



0 m 50 m 100 m 150 m



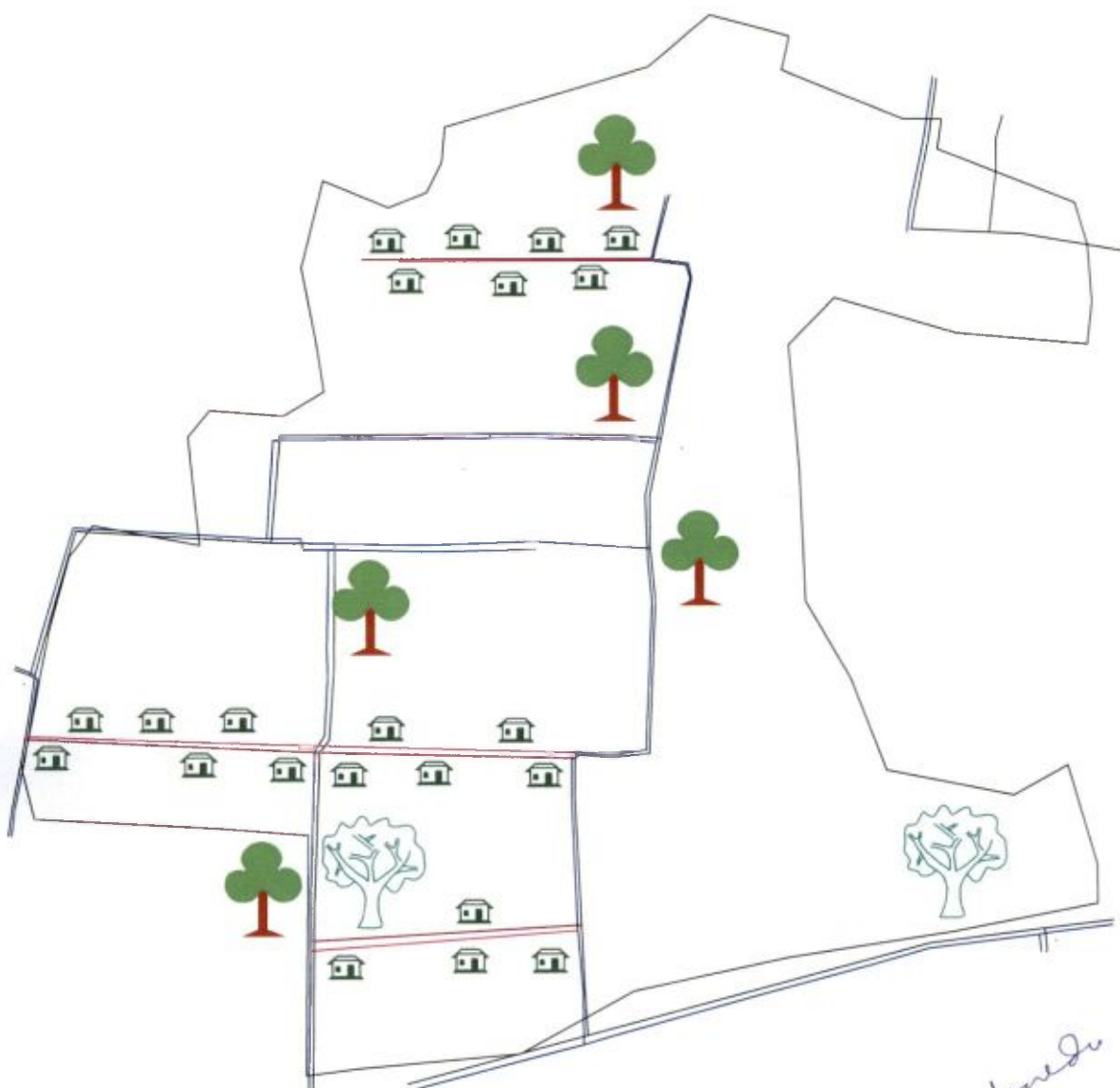
*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality

PROPOSED LAND USE			
SULM- Mondal Para Bustee-1			
SULM CODE:- 0			
BARRACKPORE MUNICIPALITY			
LEGEND			
ITEMS	Pucca	Semi Pucca	Kuchha
	SYMBOL	SYMBOL	SYMBOL
DWELLINGHOUSE(INDS)			
BLACK TOPPED ROAD (Sq.M)			
PROPOSED CONCRETE ROAD (Sq.M)			
DRAINAGE(M)			
PIPELINE(M)			
			UNIT
			27NDJ
			258MD
			215MD



# Madhab Nibash Bustee



*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

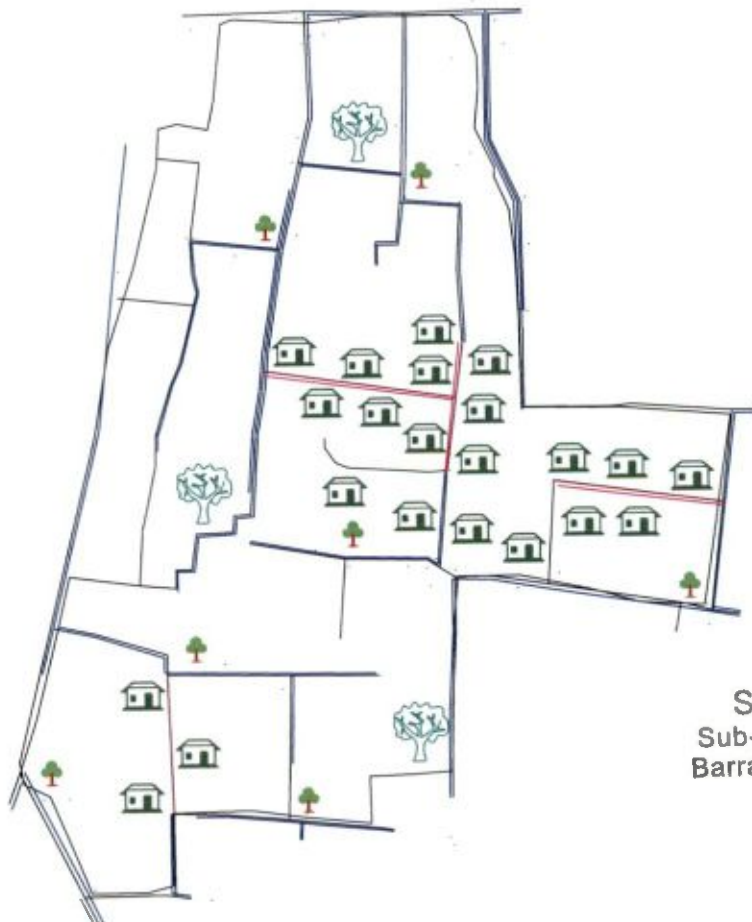
PROPOSED LAND USE				
SULM- Madhab Nibash Bustee				
SULM CODE:- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PUCCA SYMBOL	SEMI PUCCA SYMBOL	KUCHHA SYMBOL	UNIT
DWELLINGHOUSE<NDS>				22NDS.
BLACK TOPPED ROAD (Sq.M)				
PROPOSED CONCRETE ROAD (Sq.M)				19900
DRAINAGE(M)				18300
PIPELINE(M)				



0 m 50 m 150 m

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality

# Khathik Para Bustee



*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality



## PROPOSED LAND USE

SULM- Khathik Para Bustee

SULM CODE:- 0

## BARRACKPORE MUNICIPALITY

## LEGEND

ITEMS	PUCCA	SEMI PUCCA	KUCHHA	UNIT
	SYMBOL		SYMBOL	
DWELLINGHOUSE(NOS)				22NOS.
BLACK TOPPED ROAD (Sq.M.)				
PROPOSED CONCRETE ROAD (Sq.M)				21800
DRAINAGE(M.)				17000
PIPELINE(M.)				

# Jethnibagan North Side Bustee



Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

Uttam Das  
Chairman  
Barrackpore Municipality

## PROPOSED LAND USE

SULM- Jethnibagan North Side Bustee

SULM CODE:- 0

## BARRACKPORE MUNICIPALITY

## LEGEND

ITEMS	PUCCA	SEMI PUCCA	KUCHHA	UNIT
	SYMBOL	SYMBOL	SYMBOL	
DWELLINGHOUSE(NOS)				27NOS.
BLACK TOPPED ROAD (Sq.M.)				
PROPOSED CONCRETE ROAD (Sq.M)				258(M)
DRAINAGE(M.)				21500
PIPELINE(M.)				





# Hembabur Bustee



*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality










PROPOSED LAND USE				
SULM- Hembabur Bustee				
SULM CODE:- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PURCA SYMBOL	SEMI SYMBOL	PURCA SYMBOL	UNIT
DWELLINGHOUSE(INDS)				23INDS.
BLACK TOPPED ROAD (Sq.M.)				
PROPOSED CONCRETE ROAD (Sq.M.)				21100
DRAINAGECH)				18900
PIPELINE(M.)				

# Harekrishna Pally Bustee



*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

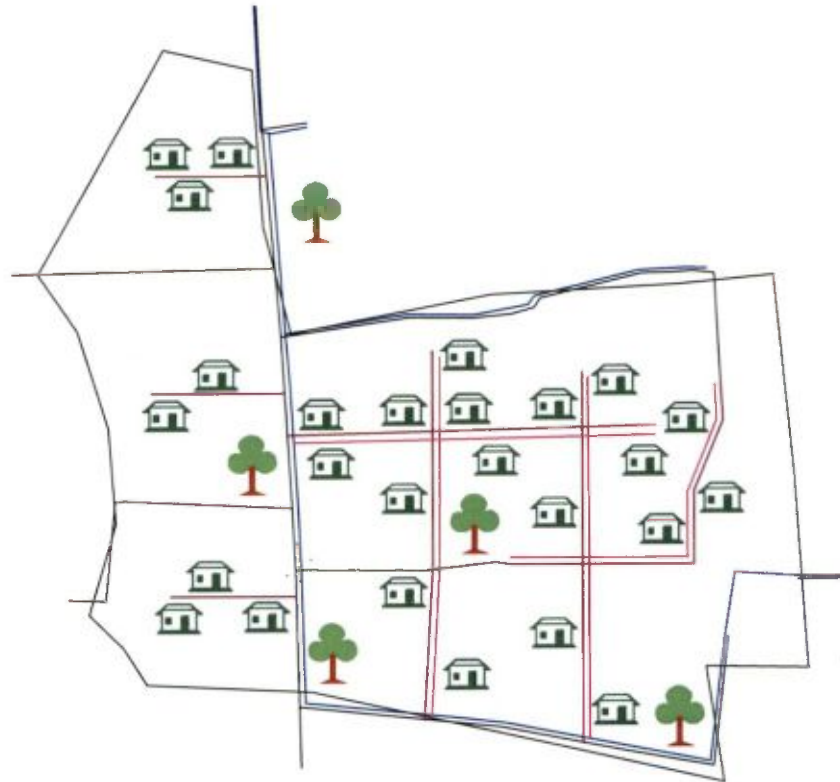
PROPOSED LAND USE				
SULM- Harekrishna Pally Bustee				
SULM CODE:- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PUCCA	SEMI PUCCA	KUCHHA	UNIT
	SYMBOL		SYMBOL	
DWELLINGHOUSE<NOS>				28NOS.
BLACK TOPPED ROAD <Sq.M.>				
PROPOSED CONCRETE ROAD <Sq.M.>				258<M>
DRAINAGE<M.>				229<M>
PIPELINE<M.>				



*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality



# Bijoy Garh Bustee



*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality

PROPOSED LAND USE				
SULM- Bijoy Garh Bustee				
SULM CODE:- 0				
BARRACKPORE MUNICIPALITY				
LEGEND				
ITEMS	PUCCA	SEMI PUCCA	KUCHHA	UNIT
	SYMBOL		SYMBOL	
DWELLINGHOUSE(NOS)				26NOS.
BLACK TOPPED ROAD (Sq.M.)				
PROPOSED CONCRETE ROAD (Sq.M.)				250(M)
DRAINAGE(M.)				206(M)
PIPELINE(M.)				

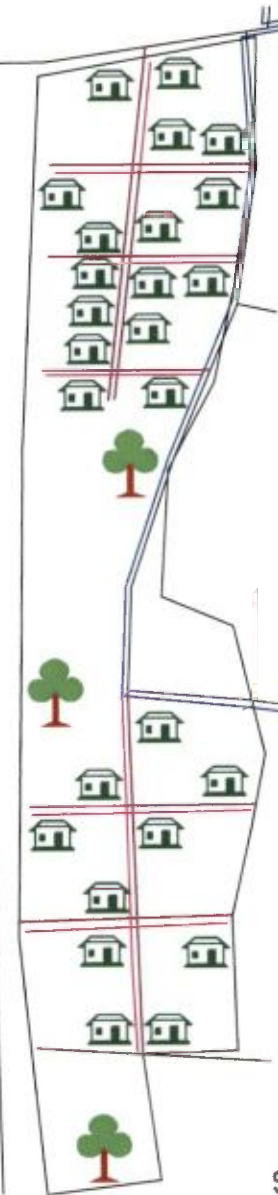




# Bhooth Nath Bustee



RAILWAY TRACK



*Supriya Halder*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*Uttam Das*  
Uttam Das  
Chairman  
Barrackpore Municipality

## PROPOSED LAND USE

**SULM- Bhooth Nath Bustee**

**SULM CODE:- 0**

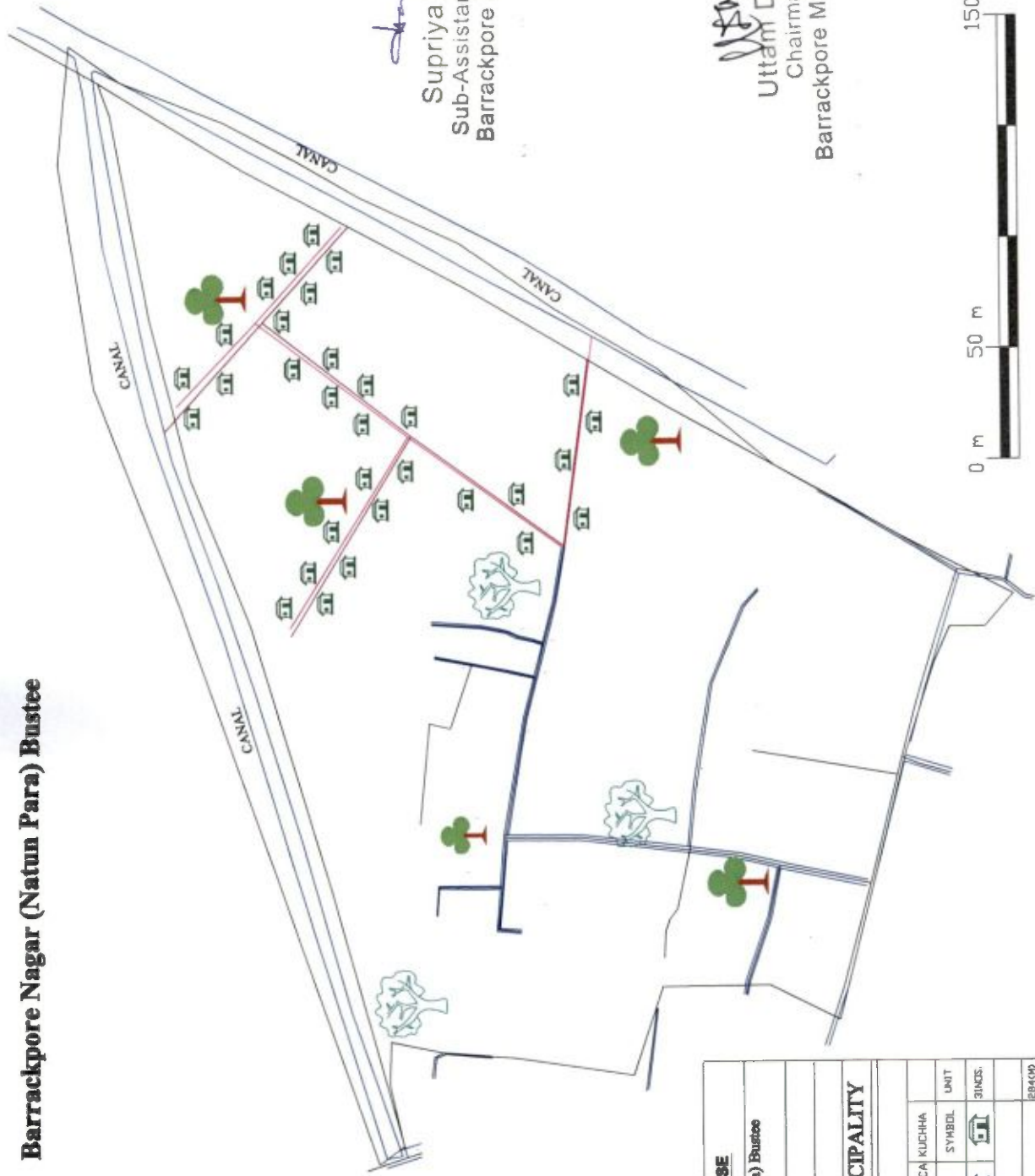
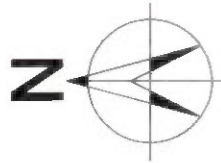
**BARRACKPORE MUNICIPALITY**

## LEGEND

ITEMS	PUCCA	SEMI PUCCA	KUCHHA	UNIT
	SYMBOL		SYMBOL	
DWELLINGHOUSE(NOS)				26NOS.
BLACK TOPPED ROAD (Sq.M.)				
PROPOSED CONCRETE ROAD (Sq.M)				23100
DRAINAGE(M.)				21900
PIPELINE(M.)				

0 m 50 m 150 m

# Barrackpore Nagar (Natun Para) Bustee



*[Signature]*  
Supriya Halder  
Sub-Assistant Engineer  
Barrackpore Municipality

*[Signature]*  
Uttam Das  
Chairman  
Barrackpore Municipality

PROPOSED LAND USE			
SULM- Barrackpore Nagar (Natun Para) Bustee			
SULM CODE:- 0			
BARRACKPORE MUNICIPALITY			
LEGEND			
ITEMS	PUCCA SYMBOL	SEMI PUCCA SYMBOL	KUCHHA SYMBOL UNIT
DWELLINGHOUSE (NO. OF SQ.M)			3INCH.
BLACK TUPPED ROAD (SQ.M)			28400
PROPOSED CONCRETE ROAD (SQ.M)			25500
DRAINAGE (M)			
PIPELINE (M)			