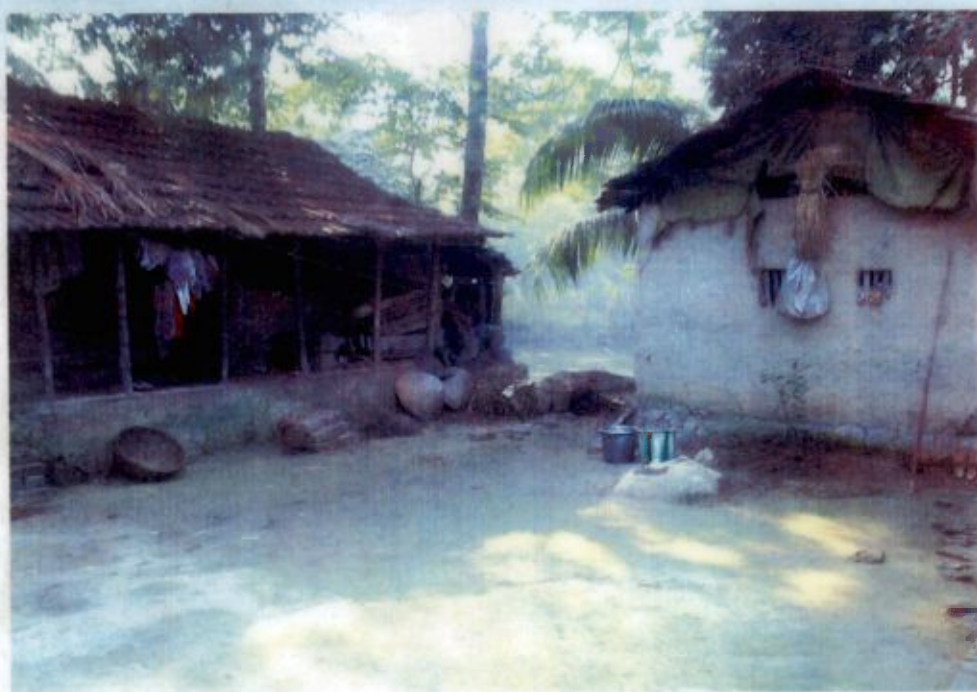


# **Project Report** *on* **HOUSING FOR ALL** **2015-16**



## **BHATPARAMUNICIPALITY**

**Beneficiary Led Construction**

*Prepared by :*

**Municipal Engineering Directorate  
Department of Municipal Affairs  
Government of West Bengal  
November, 2015**







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Engineer  
Bhatpara Municipality

  
Chairman  
Bhatpara Municipality

### Introductory Note by Chairman



On the outset I would like to take this privilege to let know you that Halisahar Municipality has finished the preparation of **Housing for All Plan of Action for the time frame 2015-16 to 2021-22**. 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 **Housing for All Plan of Action** is the outcome of the series of Demand survey workshops, FGDs, Consultations and meetings. It has been compiled by the technical persons of Bhatpara Municipality which have eventually become the **Housing for All Plan of Action** of Bhatpara Municipality. The respected citizens expressed their valuable opinions and views. Again those views have been duly incorporated in the **Housing for All Plan of Action**.

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 **Housing for All Plan of Action**. 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 **Housing for All Plan of Action** 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  
Bhatpara Municipality

  
Chairman  
Bhatpara Municipality

  
Engineer  
Bhatpara Municipality



**a. Planning Core Team:**

1. Mr. Arjun Singh, Chairman, Bhatpara Municipality
2. Mr. Tapan Kumar Karmakar, E.O, Nodal Officer Bhatpara Municipality
3. Mr. Janab Maqsood Alam, C-In-C, (P.W.D), Bhatpara Municipality
4. Mr. D.N.Banerjee, Engineer, Bhatpara Municipality
5. Mr. Swapan Barua, A.E, Bhatpara Municipality
6. Mr. Supriya Aich, Urban Planner, Bhatpara Municipality
7. Mr. Nilmoni Das, A.P.O, Bhatpara Municipality
8. Mr. Santu Ghosh, S.A.E, Bhatpara Municipality
9. Mr. Sumanta Kumar, S.A.E, Bhatpara Municipality
10. Mr. Surajit Das, Surveyor, Bhatpara Municipality

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## e. Abbreviation

A&OE	Administrative and Other	LIG	Low Income Group
AHP	Affordable Housing in	MD	Mission Directorate
AIP	Annual Implementation Plan	MoA	Memorandum of
BMTPC	Building Materials &	MoHUPA	Ministry of Housing
CDP	City Development Plan	MoU	Memorandum of
CLS	Credit linked subsidy	NA	Non Agricultural
CNA	Central Nodal Agencies	NBC	National Building
CPHEEO	Central Public Health and	NHB	National Housing
CSMC	Central Sanctioning and	NOC	No Objection
DIPP	Department of Industrial	NPV	Net Present Value
DPR	Detailed Project Report	PLI	Primary Lending
EMI	Equated Monthly Installment	RWA	Residents' Welfare
EWS	Economically Weaker Section	SECC	Socio Economic and
FAR	Floor Area Ratio	SFCPoA	Slum Free City Plan
FSI	Floor Space Index	SLAC	State Level
HFA	Housing for All	SLNA	State Level Nodal
HFAPoA	Housing for All Plan of Action	SLSMC	State Level
IEC	Information Education &	TDR	Transfer of
IFD	Integrated Finance Division	TPQMA	Third Party Quality
IIT	Indian Institute of	ULB	Urban Local Boday
IS	Indian Standard	UT	Union Territory

  
Engineer  
Bhatpara Municipality

  
Chairman  
Bhatpara Municipality



<b>f. Working Definitions</b>	
Affordable Housing Project:	Housing Projects where 35 % of the houses are constructed for EWS category
Beneficiary	A 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
Carpet Area	Area enclosed within the walls, actual area to lay carpet. This area does not include the thickness of the inner walls.
Central Nodal Agencies	Nodal Agencies identified by Ministry for the purposes of implementation of Credit Linked subsidy component of the mission
Economically Weaker Section(EWS)	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
EWS House	An all-weather single unit or a unit in a multi storeyed super structure having carpet area of upto 30 sq.m. with adequate basic civic services and infrastructure services like toilet , water, electricity etc. States can determine the area of EWS as per their local needs with information to Ministry
"Floor Area Ratio" (FAR)/FSI	The quotient obtained by dividing the total covered area (plinth area) on all the floors by the area of the plot:

  
 Engineer  
 Bhatpara Municipality

  
 Chairman  
 Bhatpara Municipality

Implementing Agencies	Implementing agencies are the agencies such as Urban Local Bodies, Development Authorities, and Housing Boards etc. which are selected by State Government / SLSMC for implementing Housing for All Mission.
Low Income Group (LIG)	LIG households are defined as households having an annual income between Rs.3, 00,000 (Rupees Three Lakhs One) up to Rs.6, 00,000 (Rupees Six Lakhs). States/UTs shall have the flexibility to redefine the annual income criteria as per local conditions in consultation with the Centre.
Primary Lending Institutions (PLI)	Scheduled Commercial Banks, Housing Finance Companies, Regional Rural Banks (RRBs), State Cooperative Banks, Urban Cooperative Banks or any other institutions as may be identified by the Ministry
Slum	A compact area of at least 300 population or about 60-70 households of poorly built congested tenements, in unhygienic environment usually with inadequate infrastructure and lacking in proper sanitary and drinking water facilities.
State Land Nodal Agencies (SLNAs)	Nodal Agency designated by the State Governments for implementing the Mission
Transfer of Development Rights (TDR)	TDR means making available certain amount of additional built up area in lieu of the area relinquished or surrendered by the owner of the land, so that he can use extra built up area himself in some other land.

  
 Engineer  
 Bhatpara Municipality

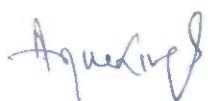
  
 Chairman  
 Bhatpara Municipality



### **Brief History Bhatpara Municipality.**

Bhatpara Municipality is one of the 41 Urban Local Bodies in the Kolkata Metropolitan Area. Bhatpara Municipality is one of the largest Municipalities in West Bengal within Kolkata Metropolitan Area. In the British era and afterwards it had become an important industrial hub on Hooghly river bank mainly for the high density of jute processing plants. It is one of the oldest municipalities in West Bengal and it was constituted a municipality in 1899, when it was separated from the Naihati municipality. At the beginning of 20th century; the British had constructed mills, especially Jute mills on the riverfront of Hooghly and hired labour mainly from Bihar & Uttar Pradesh with the help of local Mukhias. In the British era and afterwards it had become an important industrial hub on Hooghly river bank mainly for the high density of jute processing plants. It is a town in the district of North 24 Parganas. It is bounded on south by South 24 Parganas, on west by Hooghly district, on north by Nadia district and on east by Bangladesh. The township covers an Area of 32.44 square km. The whole area is divided into 35 wards for the purpose of municipal administration. The main town is sandwiched between the Hooghly River in the west and railway track linking Sealdah and Krishnanagar in the east. It's located on the Northern side of KMA area about 36 Km from Kolkata. As per provisional reports of Census India, population of Bhatpara in 2011 is 390,467; of which male and female are 207,876 and 182,591 respectively. The sex ratio of Bhatpara city is 878 per 1000 males. Bhatpara has a rail station named 'Kankinara' which connects it to Kolkata through Sealdah main line to Krishnanagar and Ranaghat. It also has boat services to the other bank of Hooghly River, connecting it to Chinsura and Chandannagar. The municipality is very thickly populated compared to other municipalities within North 24 Parganas district due to the existence of industries, Government establishments, Housing complex etc. The town is well connected by roads (Kalyani Barrackpore Expressway) and rail with the state capital. The distance between Kolkata and Bhatpara is 36 Kms Inclusion of four GPs including Madral-Panpur, Narayanpur, Rahuta II & I etc. in the year 1995 with total area further increased to 32 sq. km. The municipal town is characterized with rich historical footprints with the genesis of erstwhile village moujas like Bhatpara, Kankinara, Jagatdal Authpur and Shyamnagar can be traced back to the Mohammedans period. In the 17th & 18th century Jagatdal was an important commercial place where German capitalists had their Kutirs, known as Bankibazar. Bhatpara area was once abode of Sanakrit and Nayay Shastra learning.

  
Engineer  
Bhatpara Municipality

  
Chairman  
Bhatpara Municipality

### 3.PROJECT AT A GLANCE (7C)

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	BHATPARA
3	Project Name	HOUSING FOR ALL
4	Project Code	19801695014
5	State Level Nodal Agency	SUDA
6	Implementing Agency / ULB	BHATPARA MUNICIPALITY
7	Date of approval by State Level sanctioning and Monitoring Committee (SLSMC)	
8	Project Cost (Rs in Lakhs)	1169.43
9	No of Beneficiaries covered in the project	Gen SC ST OBC Minority Total
10	(i) No of Beneficiary	196
	(ii) No of Beneficiary	63
	(iii) No of Beneficiary	2
11	Whether selected beneficiaries have rightful ownership of the	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 ) (	433.5
	(ii) State grant if any (Rs. in lakhs)	610.52
	(iii) ULB grant if anybody (Rs. in lakhs)	53.16
	(iv) Beneficiary Share (Rs. in lakhs)	72.25
	(v) Total (Rs. in lakhs)	1169.43
14	Whether technical specification / design for housing have been	Yes
15	Whether disaster (earth quake, flood, cyclone, land slide etc.)	Yes
16	Brief of project including any other information ULB/State would	Yes

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

city and 'K' is project component code i.e. 'K' will be i-for in situ -slum redevelopment 2 -for Relocation 3 for AHP and 4-for Beneficiary -led-Construction

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.

Chief Engineer  
M E Directorate  
Deptt. of Municipal Affairs  
Govt. of West Bengal

Executive officer  
BHATPARA MUNICIPALITY  
(Nodal Officer)

BHATPARA MUNICIPALITY  
(Chairman/ Chairperson)

Chairman  
Bhatpara Municipality

Engineer  
Bhatpara Municipality



## 4. Executive Summary

## Project Details

1	State	
2	City	West Bengal
3	Project Name	Bhatpara Municipality
4	Project Cost	1069.42
5	Central Share	(Rs. In Lacs)
6	State Share	(Rs. In Lacs)
7	ULB Share	(Rs. In Lacs)
8	Beneficiary Share	(Rs. In Lacs)
9	Total Infrastructure cost	(Rs. In Lacs)
10	Percentage of Infrastructure cost of Housing Cost	10.00 %
11	Infrastructure cost per	1.6382
12	Year of Implementation	2015-16
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 (Lac/D.U.)	State Govt. Share (Lac/D.U.)	ULB Share (Lac/D.U.)	Beneficiaries Share (Rs. 0.25)
1	New in-situ										
	Single storied units		289	Nos.	367858.00	1063.11	1063.11	433.50	557.36	0.00	72.25
	Total Housing Cost Sub Total (A)										
						1063.11	1063.11	433.50	557.36	0.00	72.25

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 (in lakh)	ULB Share (in lakh)	Beneficiaries Share (in lakh)
1	Roads										
i	BT Roads	Bituminous	00	Sqm	00.00	00.00	00.00	0.00	0.00	00.00	0.00
ii	CC Roads	Cement Concrete	4620	Sqm	1736.00	80.20	80.20	0.00	40.10	40.10	0.00
2	Water Supply										
i	Pipeline (Dist.)	100 mm dia. Dist (DI)	00	Mtr	100.00	00.00	00.00	0.00	00.00	00.00	0.00
3	Storm Water Drains										
i	Surface drain	Brick Masonry	1028	Mtr	2540.00	26.11	26.11	0.00	13.06	13.06	0.00
	Total Infrastructure Cost Sub Total (B)										
						106.31	106.31	0.00	53.16	53.16	0.00
	Grand Total (A+B)										
						1169.42	1169.42	433.50	610.52	53.16	72.25

Signature of the ULB Level Competent

Signature of the ULB Level Competent Technical

Name &amp; Designation:

Name &amp; Designation: Municipal Engineer, Govt. of West Bengal

Address:

Address: Bikanish Bhawan, South Block, 1st Floor, Salt Lake, Kolkata - 7000 91

Fax No: +91-33-

Fax No: +91-33-23375474

Telephone No: +91-33-

Telephone No: +91-33-23371331

Mobile No:

Mobile No: (0)9475825219

E-mail:

E-mail: ce.medite@yahoo.com

Signature of the State Level Nodal Officer

Signature of the Chairman / CEO/Commissioner of ULB/

Name &amp; Designation: Sri M.N. Pradhan, IAS

Name &amp; Designation: Chairman, Birnagar Municipality

Address: State Urban Development Agency

Address:

Fax No: 91-33-23585767

Fax No:

Telephone No: +91-33-23585767

Telephone No:

Mobile No: (0) 9830031488

Mobile No:

E-Mail: wbsudadir@gmail.com

E-mail No:

**5. SLUM WISE DETAILS OF FUND**

SLUM WISE DETAILS OF DU AND INFRASTRUCTURE COST OF 2015-16									
Slum No.	Name of Slum	Slum Code	Area SqKm	Population	Dwelling Units (@ Rs. 3.67858 Lakh/ each)		Drainage (M) (Rs.2540.00/M) (Section - 400x400)		Pipe Line @ Rs.1066.00 /M
					Qty.	Amt. (in Lakh)	Qty.	Amt. (in Lakh)	Qty.
1	1 No. Kabin P	37	0.098673	1106	70	257.5	249	6.32	0
2	Kewtia Palpa	95	0.294605	1438	147	540.75	523	13.28	0
3	Sthirpara	120	0.365	4625	72	264.86	256	6.5	0
<b>Total</b>			<b>0.76</b>	<b>7169</b>	<b>289</b>	<b>1063.11</b>	<b>1028</b>	<b>26.11</b>	<b>0</b>

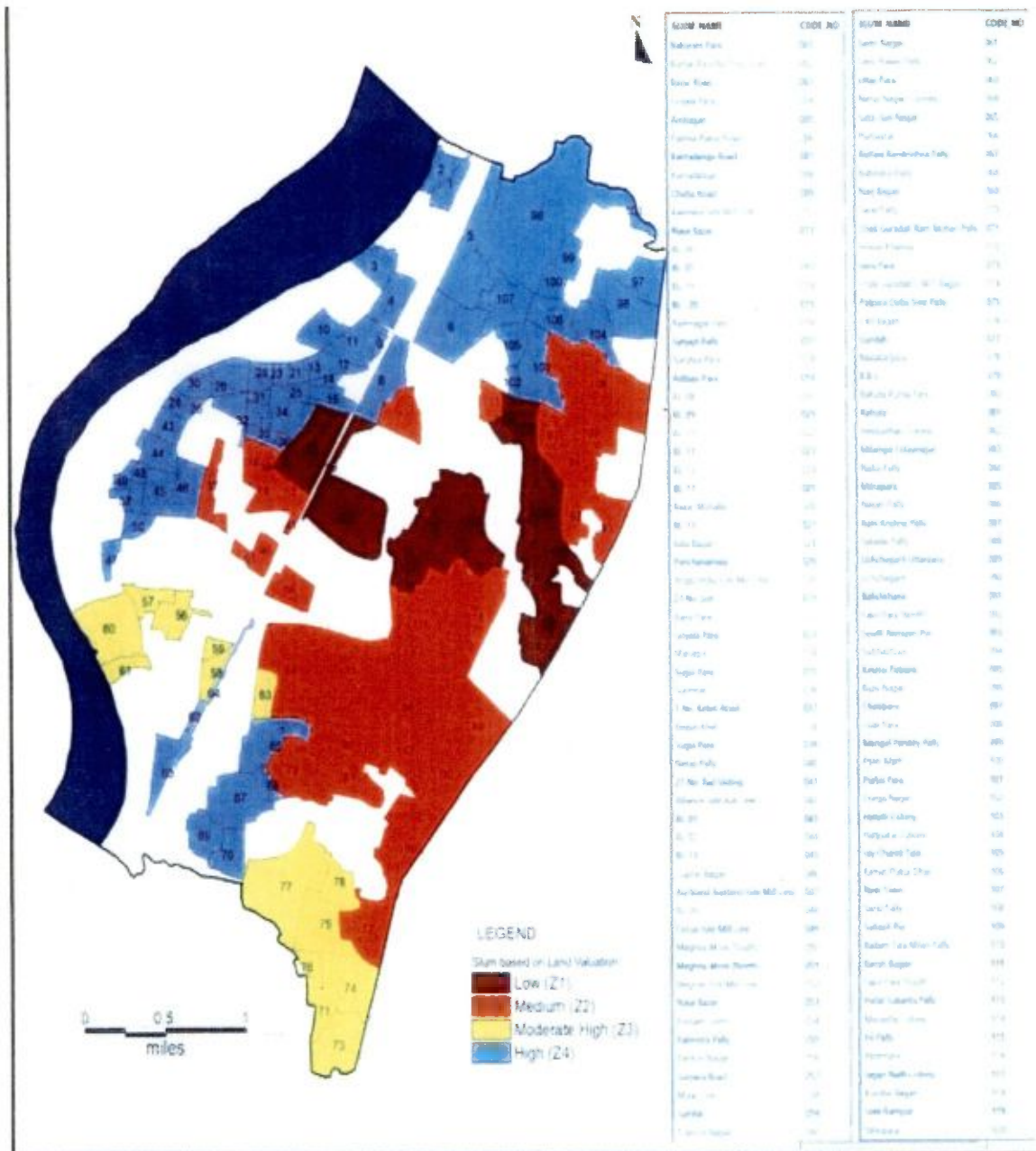
**6. INFRASTRUCTURE COST**

SLUM WISE DETAILS OF INFRASTRUCTURE COST OF 2015-16									
Slum No.	Name of Slum	Slum Code	Area SqKm	Population	Drainage (M) (Rs.2540.00/M) (Section - 400x400)		Pipe Line @ Rs.1066.00 /M		Bituminous Roads (@ Rs. 612.00/Sq.M)
					Qty.	Amt. (in Lakh)	Qty.	Amt. (in Lakh)	Qty.
1	1 No. Kabin P	37	0.0986732	1106	249	6.32	0	0	0
2	Kewtia Palpa	95	0.294605	1438	523	13.28	0	0	0
3	Sthirpara	120	0.365	4625	256	6.5	0	0	0
<b>Total</b>			<b>0.76</b>	<b>7169</b>	<b>1028</b>	<b>26.11</b>	<b>0</b>	<b>0</b>	<b>0</b>

  
 Engineer  
 Bhatpara Municipality

  
 Chairman  
 Bhatpara Municipality



**7. MAP OF BHATPARA**

  
 Engineer  
 Bhatpara Municipality

  
 Chairman  
 Bhatpara Municipality

## 8. CITY PROFILE

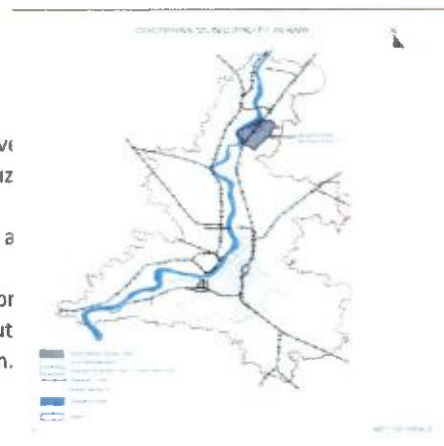
### City Overview

Constituted in 1899 with the de-merger of part of municipal area (consisting of Bhatpara, Jagatdal, Authpur and Shyamnagar, together with the village Kankinara) falling under erstwhile Naihati Municipality, Bhatpara Municipality is one of the oldest municipalities in West Bengal. It is one of the northern most towns of North 24 Parganas District of West Bengal and Kolkata Metropolitan Area (KMA). The municipality falls under Jagatdal PS jurisdiction of Barrackpore subdivision. The name 'Bhatpara' originates from the ancient name "Bhatta-Palli", where "Bhatta" denotes the section of Brahmin Sanskrit pandits and "Palli" denotes locality or village.

Owing to strategic location of the town with bank of river Hooghly bordering the town along the western side of the town, Bhatpara Municipality is home to number of water intensive industries (mainly Jute milling units) all located along the river bank. These jute mills drew in large pool of labour forces mainly from the Bihar & Uttar Pradesh who gradually settled at Coolie lines just nearest to the mills or in the vicinity of the mills. Over the years, with the economic downturn coupled with stiff overseas competition some of Jute Mills discontinued their operations in Bhatpara leading to gradual transformation from an industrial hub to a city with mere existence of handful of jute mills.

### History and Evolution of Bhatpara

Since the incorporation of the municipality in 1899 slicing out the southern part of Naihati Municipality admeasuring an area of 11.65 Square Kms. Bhatpara Municipality is observed to have constantly evolve and grown in area with the inclusion of part or full adjacent village mouz afterwards. Following are the additions to the jurisdiction of the municipality in a chronological order: Inclusion of whole village Sundia, a portion of Sthirpara Mouza and Chalkgurdah Mouza on 8th July 1924 leading to rise in municipal area to 14.24 Sq. km with effect from 1st Apr 1925. Inclusion of four GPs including Madral-Panpur, Narayanpur, Rahut II & I etc. in the year 1995 with total area further increased to 32 sq. km.



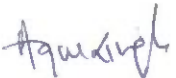
The municipal town is characterized with rich historical footprints with the genesis of erstwhile village moujas like Bhatpara, Kankinara, Jagatdal Authpur and Shyamnagar can be traced back to the Mohammedans period. In the 17<sup>th</sup> & 18<sup>th</sup> century Jagatdal was an important commercial place where German capitalists had their Kutirs, known as Bankibazar. Bhatpara area was once abode of Sanakrit and Nayay Shastra learning.

### Location of Bhatpara

Bhatpara Municipality is located at the northern part of Kolkata Metropolitan Area with its i) latitude position being 22°53'00" latitude North, 22°48'34" latitude South and ii) longitude position at 88°26'00" longitude East and 88°22'08" longitude West. The Town has an average elevation of 12 metres (39 feet) from west to east direction.

The municipality is bordered by the river Hooghly along the western side of the town, while the Barrackpore Kalyani Expressway defines the eastern boundary of the municipality. The municipality is surrounded by rural areas in the South and Eastern side with villages namely Kawgachi Gram panchayat located in the South and Panpur & Abhirampur Gram panchayat towards East. In terms of proximity to other major towns, the municipality is bounded by Naihati Municipality towards North and Garulia Municipality to the South. The city is connected with the railway line from Sealdah (Kolkata) and railway line cuts across the length of the city into eastern and western parts.

  
Engineer  
Bhatpara Municipality

  
Chairman  
Bhatpara Municipality

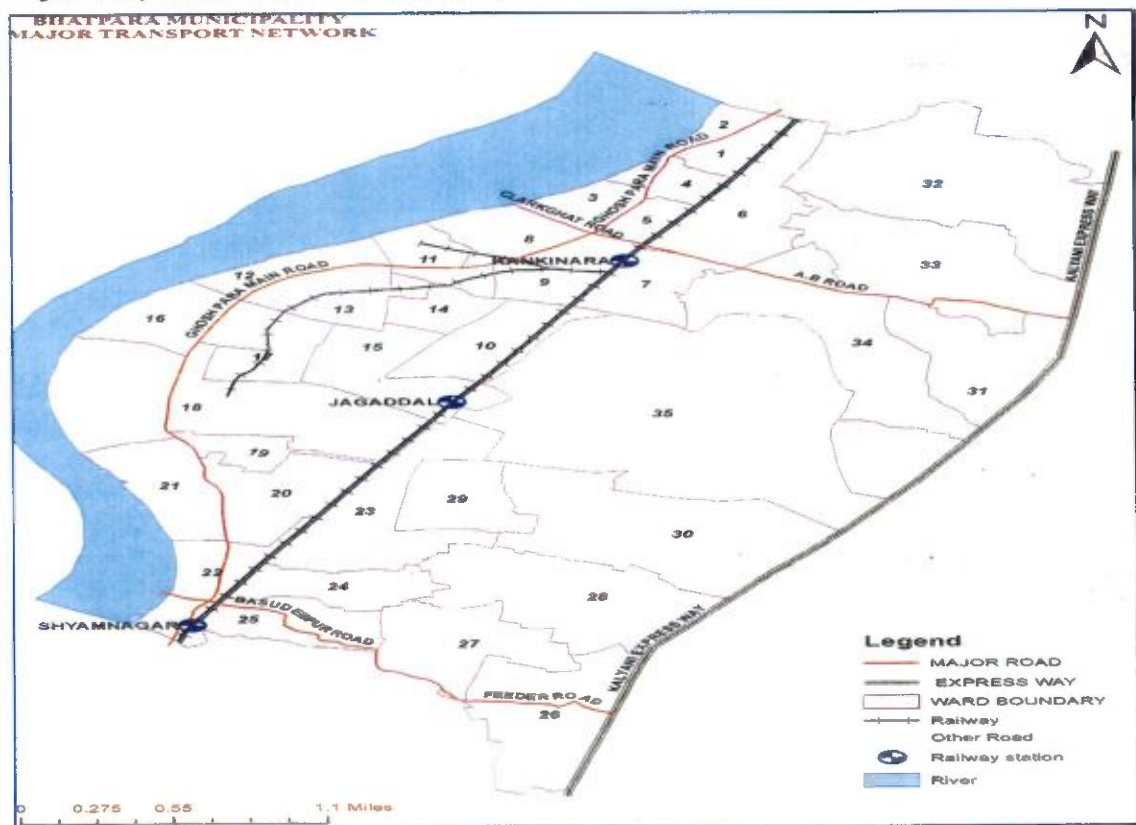


### Physical Linkages

Bhatpara is located 37 Km North of Kolkata-the state capital and it is linked by both modes of transportation viz. Road and Rail, state highway and a number of district Roads have linked the town with Kolkata, other important towns and places of North 24 Parganas and other district HQs mainly through Barrackpur Trunk Road and Barrackpore Kalyani Expressway. Other major roads including Ghosh Para main road, A.B Road, Basudevpur Road, Clarkghat Road etc. serve different parts of the town in connecting them with state highway and Barrackpur Trunk Road.

The town is well connected with remaining parts of the state by railway. There are 3 railway stations Kankinara, Shyamnagar, and Jagatdal within the municipality area and they connect the town.

Figure 2 Transportation Network in Bhatpara Municipality



through Sealdah (Kolkata) main line supporting movement of the daily passengers using a suburban railway services for coming down at Kolkata for work. It also caters for the daily movement of the majority of goods to Kolkata and other areas.

In addition, number of regular ferry services is operating on Hooghly River and the services connect the town to Hoogly-Chinsurah, Chandernagar, and Bhadreswar - towns on other bank of Hooghly river. The images below present transportation network of Bhatpara Municipality and entire Bhatpara Municipal area in Satellite Image

  
**Engineer**  
 Bhatpara Municipality

  
**Chairman**  
 Bhatpara Municipality

BHATPARA MUNICIPALITY



Map 1 Bhatpara Municipality on satellite image

Engineer  
Bhatpara Municipality

Chairman  
Bhatpara Municipality



## 9. EXISTING CENTRAL GOVT. PROJECT OF BHATPARA MUNICIPALITY.

In the areas of slum development, housing and infrastructural development projects have been taken up in the last 7 years under BSUP. Projects have been undertaken in four phases in Bhatpara and a total of 4577 DUs have been allotted till December 2013. The following table presents the details of the 4 phases of BSUP scheme carried out in Bhatpara Municipality till March 2014.

**Table 2 Details of BSUP implemented in Bhatpara Municipality**

Sl. No.	Phase	Total Investment for Housing and Basic Amenities (in Lakhs)	Total no. of DUs allotted	Total No. of DUs occupied
1.	Phase I	1791.38	797	797
2.	Phase II	6955.58	1947	1911
3.	Phase III	4318.77	1034	705
4	Phase IV	3811.26	799	648
<b>Total</b>		<b>16876.99</b>	<b>4577</b>	<b>4061</b>
5	Rajiv Awash Yojana	849.98	798	
6	Construction of Modern Abotoir	796		

Source: Bhatpara Municipality

Apart from this, drains, roads, pathways, street lights and community centres have also been commissioned under this scheme.

Recently a Pilot Project of PMAY at 1 No. Kebin Road, Kewtia Palpara & Sthirpara slum with a project cost of Rs. 9.18 Crores (target completion date March 2015) has been initiated and has reached an advanced stage of construction in a very short period of time.

## 10. Physical Infrastructure profile

From the very inception of Bhatpara as municipality, the main source for the supply of drinking water was from river Hooghly. Water was treated at vintage water treatment plants run by jute mills and distributed through pipeline network covering a small part of the town. Over the years, municipality has taken up number of water supply augmentation, including i) laying piped water supply distribution network by drawing funds from its own budget and other sources like CUDP III, 10<sup>th</sup> Finance commission etc., ii) rolling out 24x7 water supply scheme, a Rs. 250 crores project (2010-2014) implemented by KMDA under JNNURM, involving construction of a new 23 MGD Water Treatment Plant at Jagatdal, 18 overhead reservoirs and further spreading out of surface water pipeline network in other parts.

Currently, the town has a total of 330 km of surface water pipeline network catering to 96% of total population of the city and providing direct water connections to 31,000 households, of which 110 km runs within wards 1-22 and the remaining in the other 13 wards. Post the implementation of JNNURM project, daily piped water supply of the town has reached at 70 MLD.

Despite the existence of surface water supply network and coverage, municipality has to resort to ground water to meet the supply at some parts of the town. As per ULB records, 10% of the entire water supply is dependent on groundwater through deep tube wells and hand pumps, mainly in the ward nos. 06, 07, 25, 32 and 35.

The table below presents a service level standard of Bhatpara in terms of coverage of the city with respect to water supply.

  
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Table 3: Water Supply Benchmarks for Bhatpara Municipality

S/No	Indicator	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Coverage of Water Supply Connection	100%	100%	82%	92%
2	Per Capita available of Water at consumer end	135 Lpcd	135 Lpcd	105 Lpcd	135 Lpcd
3	Extent of metering of Water Connections	100%	100%	0%	0%
4	Extent of Non-Revenue Water	20%	20%	20%	20%
5	Continuity of Water Supply	24/7 Hrs/Day	24/7 Hrs/Day	10 Hrs./Day	18 Hrs/Day
6	Efficiency in redressal of customer complaints	80%	80%	82%	90%
7	Quality of Water supplied	100%	100%	80%	95%
8	Cost recovery in water supply service	100%	100%	22%	35%
9	Efficiency in collection of water supply related charges	90%	90%	60%	70%

Source: MoUD, Gof and Bhatpara Municipality, 2014

**Storm water Drainage**

Mukterpur canal starting from Tinshukia to river Hoogli (5 km in length) is the main channel for waste water outlet of the town. Other two main drains, namely, Rishi Bankimkhal and Shyam Nagar Khal, run through the northern and southern boundary area feeding canals of Mukterpur and Barti Beel respectively. These channels now have been silted. The banks of the channel are fairly high with respect to the intermediate spread of land. Bhatpara has 107 km of pucca drains and 125kms of katcha drains.

Due to lack of maintenance and heavy siltation these channels are not adequate for drainage in current form. As a result, a large number of low lying pockets, which remains water logged in the rainy seasons, have been created. The land in the municipal area is generally flat and the slope is towards intermediate field from the riverbanks.

Table 4: Storm water Drainage Benchmarks for Bhatpara Municipality

Indicator	Central Level Benchmark	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1 Coverage of Storm Water Drainage	100%	100%	80%	85%

**Sewerage & Sanitation**

The sewerage network has only 15% coverage in the entire city. The network has primarily evolved in three stages, which are:

  
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- **Stage I (1931-1973):** It started with laying of initial drainage network in 1931, which was further extended by the PHE in 1973. This led to laying of total 20.42 km of drainage network at this stage. Also a STP of capacity 10 MLD was constructed which is presently functional.
- **Stage II (1987-1993):** Bhatpara was brought under the purview of Ganga Action Plan (GAP) in the period 1987-1993, during which the old drains and outfall points were intercepted and 5 lifting stations and 2 pumping stations were constructed for better collection and transmission. A total of 15 km of pipeline was constructed during this phase in wards 1-22.
- **Stage III (2013- 2017 Projected):** Further improvement of the sewerage system is being implemented under NGRBA since 2013. Scheduled to be completed by 2017, this project is focused on eastern wards of the municipality, which has no sewerage system currently. As part of this Rs. 332 crores project, key envisaged outcomes include:
  - Laying of 125 km of Sewerage Pipeline
  - Setting up of 23 lifting stations
  - Setting up of 3 Pumping Stations
- Setting up of 3 STPs at a) Jagatdal ward No 15, b) Dipali Math ward No 23 and c) Rabindra Pally ward No 6 with a total capacity of 61 MLD

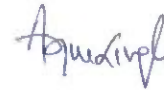
As on June, 2014 the project is running on time and 27% of the project work is already completed.

In addition to sewerage and sanitation works carried out in above three stages, municipality had underwent annual repair and maintenance work for the existing pipelines leveraging own fund of the municipality based on as-is-where-is basis.

The table below presents a service level standard of Bhatpara in terms of coverage of the city with respect to sanitation and sewerage. Table clearly shows though toilet coverage of the town is reasonably good, but lot of interventions are required to improve sanitation and sewerage facilities as there is no household level drainage facility leading to unhygienic environment in slums.



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**Table 5: Sewerage and Sanitation Benchmarks for Bhatpara Municipality**

1	Coverage of Toilets	100%	100%	85%	90%
2	Coverage of wastewater network services	100%	100%	25%	45%
3	Collection Efficiency of Waste Water Networks	100%	100%	60%	65%
4	Adequacy of Waste water treatment capacity	100%	100%	45%	55%
5	Extent of Reuse and recycling of treated wastewater	20%	20%	3%	15%
6	Quality of Waste Water Treatment	100%	100%	94%	95%
7	Efficiency in redressal of customer complaints	80%	80%	60%	75%
8	Extent of cost recovery in Waste Water Management	100%	100%	4%	7%
9	Efficiency in collection of sewerage charges	90%	90%	0%	0%

Source: MoUD, Gol and Bhatpara Municipality 2014

### Solid Waste Management

Bhatpara Municipality generates approximately 6050 MT/month of solid waste. Presently there is no proper solid waste management in the municipality and it is dumped in open landfill sites. There are two spots which currently the municipality uses as dumping grounds. They are: i) Madral low cost treatment plant (in use for last 10 years) and ii) Fingapara Ward 29-35 border (in use for last 4 years). The waste is collected mostly by Handcarts and then dumped by tractors and trailers. Recently, a SWM pilot project (Rs. 28 Crore approx.) is being implemented under NGRBA.

The table below presents a service level standard of Bhatpara in terms of coverage of the city with respect to Solid Waste Management. In terms of household level coverage solid waste management and segregation of municipal solid waste, the municipality is not at a good stage.

**Table 6: SWM Benchmarks for Bhatpara Municipality**

S/NO	Indicators	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Household level coverage of solid waste management services	100%	100%	25%	45%
2	Efficiency of collection of municipal solid waste	100%	100%	90%	92%
3	Extent of segregation of municipal solid waste	100%	100%	15%	20%
4	Extent of municipal solid waste recovered	80%	80%	80%	85%
5	Extent of scientific disposal of municipal solid waste	100%	100%	15%	40%
6	Extent of cost recovery in solid waste management services	100%	100%	10%	15%
7	Efficiency in collection of solid waste management charges	90%	90%	10%	11%
8	Efficiency in redressal of customer complaints	80%	80%	85%	90%

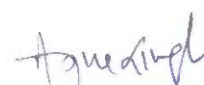
Source: MoUD, Gol and Bhatpara Municipality 2014

### Road Coverage and Condition

As per the Land Use map of Bhatpara, only 2.7% of the entire municipal area is dedicated to roads. This indicates a very high density of settlement and less developed vehicular network within the city. The settlement and concentration of the activities in this town was originally centered on the rail lines. B.K. Expressway and Ghoshpara Main Road both run along the length of Bhatpara Municipality Connecting Kolkata, Barrackpore, Barasat and Kalyani. A number of state Highways and District Roads link with the municipality, district head quarter and Kolkata, the state capital. Road network in Bhatpara has grown to a total of 1089.67 Km. While only 36% of roads are black topped and concrete, remaining 64% of the road network is still katcha. Most of the existing arterial roads are narrow with two lane carriageways and needs to be widened to cater for the increasing vehicular traffic. Due to lack of proper maintenance, the surface conditions of the roads are not good which in turn reduces the speed of moving traffic.



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### 11. The Project slums and existing scenario of Infrastructure

The various indicators and their score to assess infrastructure deficiency are provided in the table below:

#### Indicators for assessing Infrastructure deficiency

		1	2	3
1.	<b>Water:</b> Percentage of Households without Individual tap connection	0-30	30-60	60-100
2.	<b>Sanitation:</b> Percentage of Households without access to individual latrine	0-30	30-60	60-100
3.	<b>Drains:</b> Whether the slum is connected, not connected or partially connected to city wide storm water drainage system	Connected	Partially Connecte	Not Connected
4.	<b>Roads:</b> Percentage of Households with Non Motorable Katcha and Non Motorable Pucca Roads	0-30	30-60	60-100

**Note:** 0-30 means less than equal to 30, 30-60 means more than 30 but not more than 60, 60-100 means more than 60

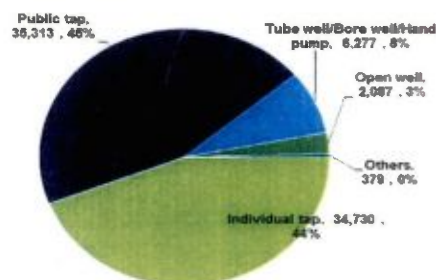
Status of all the 120 slums in terms of infrastructure is listed in Annexure-B9 and the deficiency parameters are analysed as follows:

#### Water

The slum households of Bhatpara have reasonably good access to drinking water, either from individual taps or from public taps. The figure alongside reveals that:

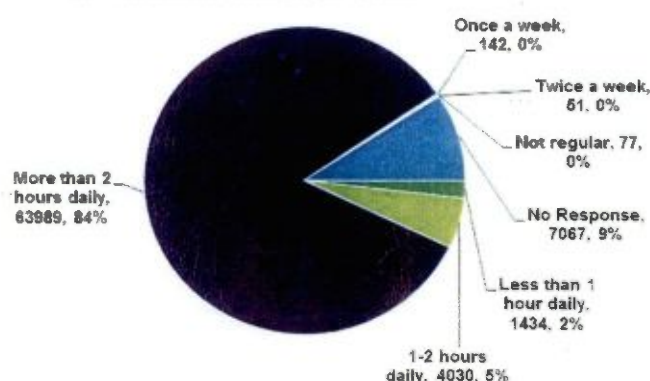
Around 44% of the total slum households (34,730 in number), have individual tap connection in their own premises. Out of these, majority of the households (30,000 in total) stay in notified slums,

Figure 3 Sources of Drinking water available in



Around 45% of slum households are dependent on public tap and about 8% in aggregate, resort to Tube well/Bore well/Hand pump for collection of drinking water.

Figure 4 Duration of Water Supply in Slums



Remaining 3% households (2450 in number) are dependent on open well, tank/pond, canal, water tanker etc. Majority of the slum households in Bhatpara have a decent duration of water supply with about 84% of the slum households having water supply for more than two hours. Only 2% of slum households, are reported to have access to drinking water for less than one hour daily. Only 193 HHs receive water only once or twice a week.

37 slums have a score of "1", that is, slums with less than 30% households having individual tap connection. Number of slums getting scores of "2" and "3" are 37 and 46 respectively indicating around 38% slums have more than 60% households without individual tap connection.

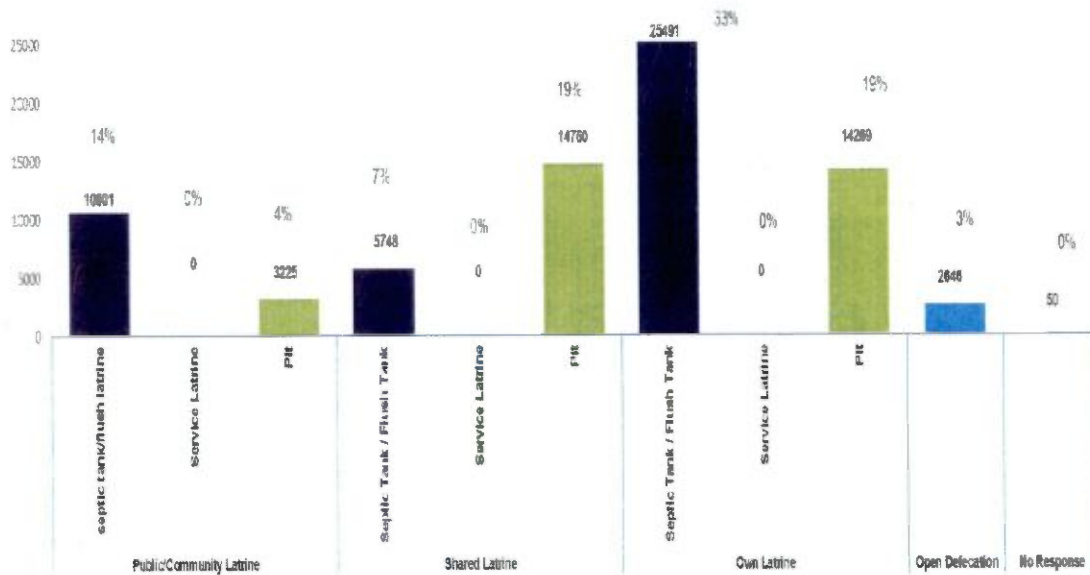
  
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## Sanitation

## Sanitation

In terms of access to sanitation facilities, 33% of the households have their own latrines, 7% households have shared latrines and 14% avail community toilets. Figure below shows households living in slums of Bhatpara have a pit inside their premises with their share accounting for 19% of total slum households. A total of 42% of the population avail these pits. A small percentage of about 3% households resort to open defecation.



Majority of the slums (66 slums) have been given the score "1", that is, slums having less than 30% households without access to individual latrine. Moreover, of the 66 slums given the score of "1", it is observed that 31 slums have less than 10% households who do not have access to latrine facilities inside their premises.

In comparison, out of the 32 slums having more than 60% households without individual latrine facilities, in 9 slums more than 90% households do not have facilities inside their houses. Significant among them include i) Alliance Jute Kuli Line (S.C.-042), ii) Auckland Jute Mill Line(S.C.-047), iii) Circus Jute Mill Line(S.C.-049), iv) Kankinara Jute Mill Line(S.C.-010) etc.

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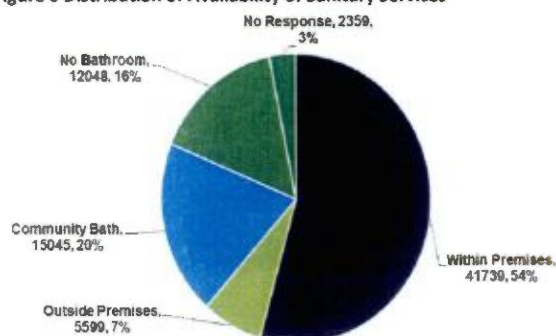
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**Figure 5 : Distribution of Types of Sanitation Facilities  
Access to Bathroom facility**

\* In terms of access to bathroom facilities, 54% of the households have bathrooms within their premises, of which more than 80% households are from notified slums  
\* 16% households do not have bathrooms within their premises, of which 71% households are from notified slums. Significant slums coming under this category are Naya Bazar (S.C.-011), B L.06(S.C.-012), B L.11 (S.C.-045), Uttar Para(S.C.-063) etc.

**Figure 6 Distribution of Availability of Sanitary Services**



#### Drains

The lack of proper drainage system is a critical issue in Bhatpara. The topography of the town varies mostly based on the proximity to the river and also the large number of ponds on the eastern part and a canal cutting across the town. All these above factors contribute to the drainage problems of Bhatpara. The following table shows status of storm water drainage connectivity of the slums.

**Table 7 Status Connectivity of Drains in Slums**

Category	Connectivity							% Slums	% total	
		Notified Slums			Non-Notified Slums					
		No. of Slums	No. of HHs	Population	No. of Slums	No. of HHs	Population			
Fully Connected		1	428	1850	0	0	0	1%		1%
Partially		58	45,451	1,77,715	17	10,890	42,128	63%		73%
Not Connected		30	12,793	49,513	14	7,228	28,070	37%		26%
TOTAL		89	58,672	2,29,078	31	18,118	70,198	100%		100%

From the table above we can observe that:

Only 1% of the slums HHs are fully connected to the drainage system, while 37% slums with 20,000 households are not connected to drainage system at all. 63% slum are partially connected to the drainage system, covering more than 56,000 households

Most of the slums which are not connected to the drainage system are located on the Eastern Fringe of the municipality and are close to the Kalyani Expressway.

On account of absence of household level details on connectivity status to the drainage system in slums, partially connected slums have been scored "2" for all the slums falling under this category.

Fringe of the Municipality are close to Kalyani Express Way.

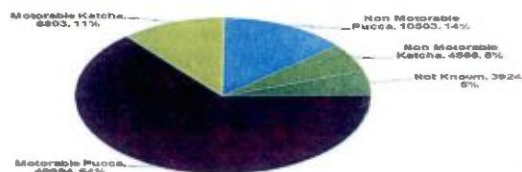
#### Roads

One of the most important physical criteria that determine the condition of a slum is the condition of roads. From the figure alongside, following key things can be ascertained

About 64% households in slums have access to motorable pucca road and another 14% households have access to non-motorable pucca road

17% of the slum households have no direct access to pucca road.

**Figure 7: Distribution of Roads in Slums**



  
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76 slums (63% of total) have scored "1" as they have less than 30% Households in their slums with access to Non Motorable Katcha and Non Motorable Pucca Roads, of which 35 slums have less than 5% households. 56 slums have less than 10% households with access to Non Motorable Katcha and Non Motorable Pucca Roads. 10 slums have scored "3" as they have more than 60% households with access to Non Motorable Katcha and Non Motorable Pucca Roads.

### Vulnerability

The various indicators and their score to assess vulnerability is provided in the table below

#### Indicators for assessing vulnerability

		1	2	3
1.	<b>Housing:</b> Percentage of Households with Katcha and Semi Pucca Houses	0-30	30-60	60-100
2.	<b>Income Level:</b> Percentage of HH having income < Rs.3000/- per month	0-30	30-60	60-100
3.	<b>Caste Status:</b> Percentage of SC , ST and OBC in slum	0-30	30-60	60-100
4.	<b>Minority Population:</b> Percentage of Minority Population in a slum	0-30	30-60	60-100

(0-30 means less than equal to 30, 30-60 means more than 30 but not more than 60, 60-100 means more than 60)

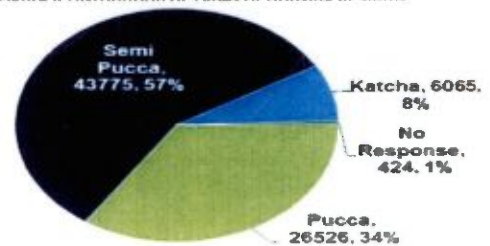
Status of all 120 slums in respect of the four vulnerability parameters is detailed below:

#### Housing

The condition of housing in the slums is one of the key determinants of the condition of the slum and also one of the most compelling issues to be addressed. In Bhatpara, slums comprise mostly of semi-permanent structures or slums with permanent structures in dilapidated conditions. From the figure alongside, following observations can be derived:

Out of 76,790 households, majority of the households (57% of total HHs) stay in semi-pucca houses followed by households staying in pucca houses, which constitute another 34% of total households. (Refer Annexure B-6 for photographs of slum structures)

Figure 8 Distribution of Types of Housing in Slums



Katcha and semi pucca houses taken together accounts to about 65% of the total houses. Out of these total 49,840 houses[1], around 6,000 houses are katcha with four slums [Chalta Road (S.C No. 9), 27 No Railway Station Siding (S.C No. 41), B.R.S (S.C No. 79) and 1 No. Kebin Road, Kewtia Palpara & Sthirpara having more than 50% households staying in katcha houses. Moreover, maximum concentration of katcha houses is observed in ten slums, which accounts for 35% of total katcha houses in slums of Bhatpara

As evident from the above, only 4 slums have score of "1" which means less than 30% Households stay in Katcha and Semi Pucca Houses. Maximum concentration of slums (63 Nos.) have score of "3" and out of these 63 slums, 13 slums have more than 90%

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## 12. National poverty Alleviation Programmes and PMAY

[1] Total number of katcha and semi pucca houses shall be lower than 49,840 by 298 houses as slum development work has been initiated in 1 No. Kebin Road, Kewtia Palpara & Sthirpara slum (196 katcha and semi pucca houses) and hence, it should be excluded. DPR prepared of this slum has been sanctioned from MoHUPA, Gol in September, 2013.

## 12. 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.
- ii. 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.

- iii. It is increasing 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 descent 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.

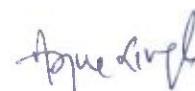
### National Missions for Slum Development and Poverty Reduction

- 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 & Rajiv Awas Yojana). More recently it has also launched the Pradhan Mantri Awas Yojana [PMAY] for affordable housing for the poor for inclusive, sustainable and equitable urban development and to address the 'problem of slums in a definitive manner' (PMAY guidelines).



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- 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 lacs 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.

### 13.HFAPoA and Pradhan Mantri Awas Yojana(PMAY)

**Slum Free City Plan of Action and Pradhan Mantri Awas Yojana [PMAY]** To make cities Slum-free is currently on the global agenda. One of the Millennium Development Goals (MDGs) is to 'achieve significant improvement in the lives of at least 100 million slum dwellers, by 2020 (UNDP, 2003). Similar goals are set forth by Pradhan Mantri Awas Yojana [PMAY] , to create a Slum-free India.

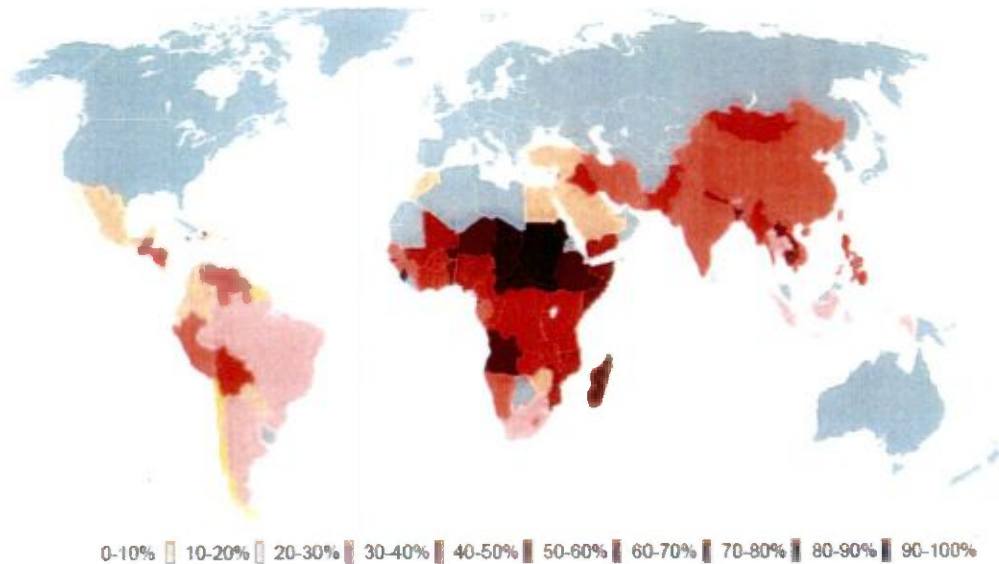
All urban development initiatives have an impact on the poor within the city. It is now recognised that the past process of urban development and city planning has not been sufficiently inclusive. The process of preparing and implementing Slum Free City Plan of Action will involve 'learning by doing' in partnership with slum communities themselves. The HFAPOA will contain a holistic and temporal view of how the city could develop planning processes and projects targeted at the urban poor and improving living conditions in slums. The plan while being developed with a 10-15 year perspective will need to be updated and modified at regular intervals so as to remain relevant. The slum free city planning exercise will help the city to take a holistic view of slum settlements and the urban poor, by systematic data gathering and analysis at zone, ward and slum level which would help it to address policy / regulatory constraints in the access to affordable shelter solutions for the urban poor in the city.

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



The preparation of HFAPoA Plan 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;

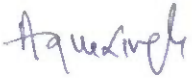
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4. Inventory of all possible vacant lands in each zone of the urban agglomeration that could be used for slum development/ rehabilitation development purposes;
5. Development of Slum Map of every slum within the city and its fringes using GIS with 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 /cavassers and canvassing. It would be helpful for community mobilization to pick as many cavassers 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);
12. For each slum identified, Slum Development Plan to be decided based on models like PPP development, infrastructure provision only, community-based development through Rajiv Awas Housing Societies, etc. This decision-making should necessarily be done with the involvement of the community after community mobilization and dialogue for deciding the model to be adopted. Each slum development plan should have the timeline against each of the activities; and
13. Preparation of HFAPoA 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



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**14. Introduction to Pradhan Mantri Awas Yojana (PMAY)**

i. Pradhan Mantri Awas Yojana [PMAY] a path breaking scheme for the slum dwellers and urban poor envisages a 'Slum-free India' 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.

**ii. PMAY envisages the following**

- Development of 'city-wide' slum free city plans that can then get integrated at the state level through a broad State wide slum free action plan
- 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.

**iii. The duration of Pradhan Mantri Awas Yojana [PMAY] will be in the following two phases:**

- (2015-2022) – covering innovative and projects and initial set of cities ready with City –wide plans.

iv. **Eligible Components of the PMAY:** In each slum, an integrated approach will be taken, with provision of infrastructure, basic civic and social amenities and decent housing, with attention to planning the layout (after reconfiguration of plots, if possible), total sanitation (with provision of individual toilets and water supply to each household) and provision of adequate green spaces as per (modified, if necessary) town planning norms.

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

1. Power generation
2. Telecom
3. Employment generation programs and
4. Staffing

**15. The duration of Pradhan Mantri Awas Yojana [PMAY] 2015 TO 2022****ii. The duration of Pradhan Mantri Awas Yojana [PMAY] will be in the following two phases:**

- (2015-2022) – covering innovative and pilot projects and initial set of cities ready with City –wide plans.

  
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## 16. Need for Projects

This 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 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

Pradhan Mantri Awas Yojana envisages a 'Housing For All' with inclusive and equitable cities in which every citizen has access to basic civic and social services and decent shelter. It aims to achieve this vision by encouraging States/Union Territories to tackle the problem of slums in a definitive manner, by a multi-pronged approach focusing on:

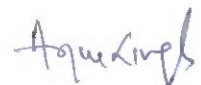
- Bringing all existing slums, notified or non-notified within the formal system and enabling them to avail of the same level of basic amenities as the rest of the town;
- Redressing the failures of the formal system that lie behind the creation of slums; and tackling the shortages of urban land and 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.

Thus, the main focus of Pradhan Mantri Awas Yojana [PMAY] is an integrated approach aimed at bringing within the formal system those who are forced to live in extra-formal spaces and in denial of right to services and amenities available to those with legal title to city spaces, and at correcting the deficiencies of the formal system of urban development and town planning that have failed to create conditions of inclusiveness and equity; so that, henceforth, new urban families, whether by way of migration or natural growth of

population, have recourse to housing with municipal services, and are not forced to create encroachments and slums and live extralegal lives in conditions of deprivation of rights and amenities.



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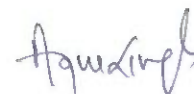


**17. Funding Pattern of PMAY**

FUND FLOW PATTERN						
Rupees in lakhs						
NAME_OF THE SCHEME	ESTIMATED COST	YEAR 2015-16				TOTAL
		GOI	GOWB	ULB	Benificia ries	
PMAY project - , Bhatpara Municipality	1169.87	433.5	610.95	53.18	72.25	1169.87
PHASING OF FUND						
Rupees in lakhs						
YEAR 2015-16	RELEASE OF FUND					
	GOI	GOWB	ULB	Beneficiaries	TOTAL	
1st Installment @ 40%	173.4	244.38	21.27	72.25	511.3	
2nd Installment @ 40%	173.4	244.38	21.27	0	439.05	
3rd Installment @ 20%	86.7	122.19	10.64	0	219.52	
TOTAL	433.5	610.95	53.18	72.25	1169.87	
REQUIREMENT OF FUND						
Rupees in lakhs						
SL. NO	NAME_OF THE SCHEME	YEAR 2015-16			TOTAL	
1	PMAY project - , Bhatpara Municipality	1169.87			1169.87	
	Total	1169.87			1169.87	



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### 18. Demographic features of the Bhatpara Municipality

Social and demographic profile of Bhatpara Municipality builds upon analysis of recent and past Census data of the district of North 24 Parganas and Bhatpara Municipality. Census records show that district of North 24 Parganas has recorded a high growth of urban population recording around 18.2% during 2001-2011 period. This has led the district to become 2<sup>nd</sup> largest district of India and largest in state in terms of population size in 2011. It has rightly been represented by district wise number of municipalities as North 24 Parganas is highest among all districts with 27 municipalities in the district spread across five subdivisions. Bhatpara Municipality is one of the key municipalities in the North 24 Parganas district. .

Population of Bhatpara constitutes only 4% of total district population and the total urban population of North 24 Parganas it comes around 57% of district's population. Bhatpara Municipality comes among the top three municipalities[1] of the district ranked in terms of population size with its population recording around 6.8% of the urban population of the North 24 Parganas. Demographic overview of the municipality over the decades has been presented in the table below.

**Table 8 Overview of the Bhatpara municipality**

No.	Indicators	2001	2011	2014 (P)
1.	Population (In Lakhs)	4.42	3.84	4.1
2.	Decadal Population Growth Rate	45.07%	-13.25%	5.11%
3.	No of HHs	80,005	87,076	91,700
4.	Average Household Size	5.53	4.41	4.41
5.	Population Density (Persons per Sq. Km)	16,556	14,362	15,097
6.	Overall Male-Female Ratio	55:45:00	53:47:00	--

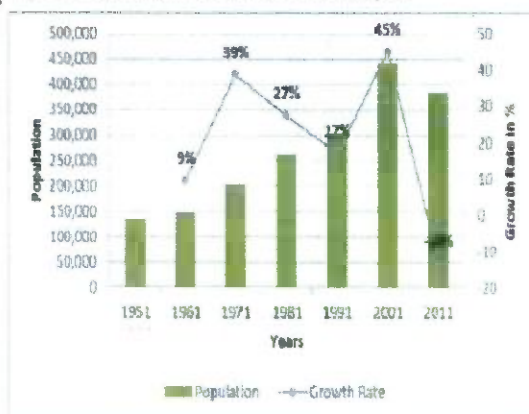
Source: Census, DDP, USHA survey and validation under [PMAY], Population Projection

Following observations can be inferred from the above table:

•

Bhatpara municipality witnessed a steep decline in population during 2001-2011 period with a negative growth rate at 13.25%, as compared to growth trend recorded in West Bengal and North 24 Parganas at 14% and 12% respectively during the same period. Growth rate of Urban Population of North 24 Parganas was about 18% during 2001-2011. .

**Figure 9 Population & Growth Rates of Bhatpara**



• After analysing population data of the previous census records, it reveals that population growth trend for Bhatpara was upward and consistent between 1961-2001 period with highest growth rate recorded during 1991-2001 at 45% (see Figure 6). Based on feedback received from Bhatpara Municipality we are given to understand that this sudden trend fluctuation coupled with increase in number of households during 2001-2011 period may be attributed to outmigration or temporary absence of house members during the period of enumeration.

• The projected population of Bhatpara as on 2014 is expected to be about 410809[2] with number of households estimated at 91700.

  
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[1] Other densely populated Municipalities are South Dum Dum, Rajarhat Gopalpur with share of their population recording more than 7% of total urban population.

[2] The population for 2014 has been projected assuming an average annual growth rate based on the decadal growth rate observed since 1961-71.

The analysis of the ward wise population growth over the last decade reveals a distinct pattern of the direction of growth of the town. From the figures above it can be concluded that:

Figure 10 Ward wise Population Growth of Bhatpara Municipality (2001-2011)

Wards located in the western side of the town are comparatively more populated with 8 wards appearing in top 10 wards of the town in terms of population size. On

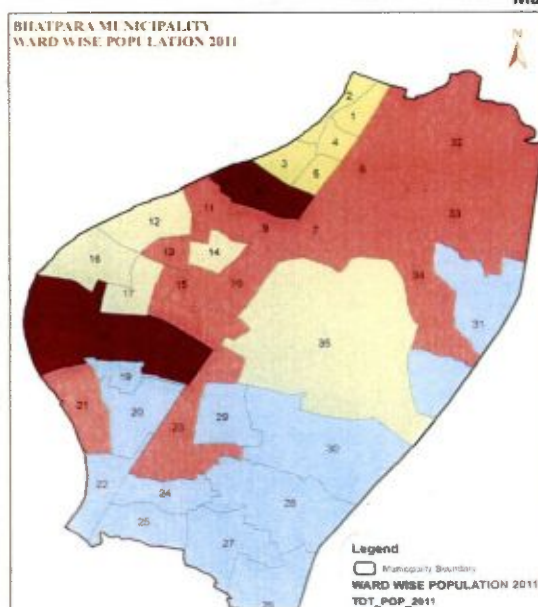


the contrary, 9 wards located in eastern part of the town come in top 10 wards ranked in respect of population growth rate during 2001-2011. Ward no. 15 located in central-eastern part of the town is the only ward which comes in top 10 wards of the municipality with respect to population size and population growth

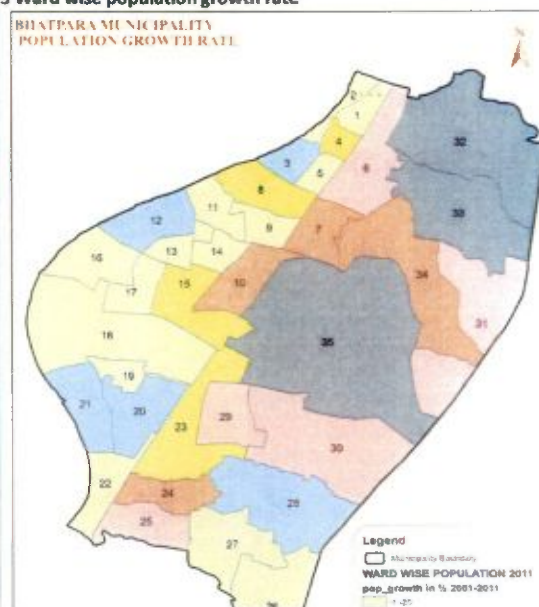
- Further analysis of the negative population growth of the town during 2001-2011 period reveals that 23 out of total 35 wards have recorded negative population growth rate during that period and except for ward no. 23 recording negative 2.9% growth, remaining 22 wards are located at the western side of the railway track. Further, around 98% of downfall in town population is observed to be driven by reduction of population in only 10 wards of which 5 wards (13, 14, 16, 17 and 18) account for 63% of total decline (around 37,000) and all these wards are jute mill zones.
- More specifically, all the 8 most densely populated wards located on western side of railway track have registered negative growth rate with growth rates of four of them (16, 17, 18 and 9) recording more than negative 20% growth during 2001-2011.
- In comparison, north western part of the Municipality (ward no. 32, 33 and 34) have registered substantial positive growth with growth rate more than 15%, since it is the newer region and has vacant land to offer for newer developments.

These are rightly represented in figures below showing ward wise population size and growth in Bhatpara municipality.

Map 2 Ward wise Population



Map 3 Ward wise population growth rate



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Population density of Bhatpara is on a higher side, though density is observed to have decreased from 16,556 persons/sq. km in 2001 to 14,362 persons/sq km in 2011. This is much higher than the district level density figure, however, unlike Bhatpara, district level density has increased from 2,182 persons/sq. km in 2001 to 2,445 persons/sq. km in 2011. Ward wise analysis reveals following key observations:

1

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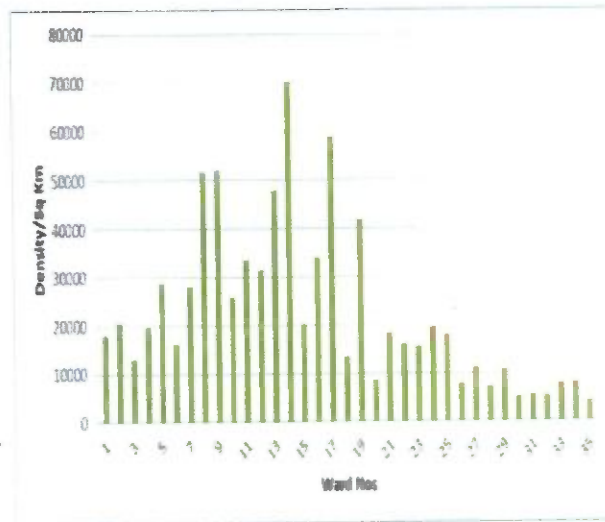
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Population density varies substantially across the wards with four wards (14,17,9 and 8) recording population and household densities recording of more than 50,000 persons/ sq. km and more than 9500 HHs/sq.km respectively. Wards ranked based on population density sizes reveal that all the top 10 wards are located on the western part of the town, Whereas all the thirteen (13) wards located in eastern part of the town are relatively lesser dense with average population and household densities recording around 9,600 persons/sq. km. and 2425 HHs/sq.km. Low population density of the wards located along the eastern part railway track vis-à-vis rest of the wards is attributed to presence of large chunk of vacant land in majority of these wards (26, 28, 30, 31, 32, 33, 34, 35 etc.).

Figure 11 Ward wise Population Density of Bhatpara,2011



- Low population density of the eastern side wards coupled with high rate of population growth is leading to the growth in the eastern side.

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## Spatial Growth Patterns

### Existing pattern of Development

Based on variation in intensities of growth across wards, development pattern of Bhatpara carves out into three distinct zones with varying intensities of growth as depicted in figure alongside. The zones are:

- **Western Periphery (W):** The older part of the city with the jute mills situated along the banks of river Hooghly. This zone lies between the banks of Hooghly River and the Ghoshpara Main Rd. This area is characterized with presence of number of industrial units leading to high rate of residential growth and population density..
- **Core (C):** The central core area of the city with dense built-up area and road network on the immediate east and west of the railway track.
- **Eastern Periphery (E):** Most of it is newly added area comprising of settlements having low density and residential growth, large chunk of open land and a number of water bodies.



### Growth Direction of City

With the inclusion of the mouzas in the eastern periphery of town in 1995, trend towards sub urbanization and urban sprawl (low density, spatially dispersed and segregated land use) have gradually started to impact the mobility of the town and growth direction. This has further been compounded by enormous population pressure in the core and western periphery of town characterized with shrinking space for habitation. However, the growth movement was lopsided till Barrackpur Kalyani Expressway bordering the eastern part of the town was constructed. Barrackpur Kalyani Expressway has played a key role in shaping the growth pattern toward the eastern direction which is mainly in the ward nos. 23-35. A noticeable growth is visible in most of these wards driven by potential growth drivers like availability of vacant land, and road connectivity for real estate development

Table below presents the list of most promising wards in terms of growth as measured by the municipality along with the underlying reason behind the growth in these wards.

**Table 9 Growth Patterns in Bhatpara Municipality**

Ward No.	Nature of Growth			Growth Drivers		
	Residential	Commercial	Industrial	Population Growth	Road Connectivity	Vacant Land availability
25	✓				✓	✓
26			✓	✓	✓	✓
28			✓	✓	✓	✓
30			✓	✓	✓	✓
32	✓		✓	✓	✓	✓
33	✓			✓	✓	✓
34	✓			✓	✓	✓
35	✓			✓	✓	✓

Source: Bhatpara Municipality


From the above table it is clearly evident that ward nos. 32-35 and 25 have witnessed the significant real estate projects primarily on account of i) availability of large parcels of vacant land, ii) road-rail connectivity and iii) inward migration from adjacent rural areas leading to residential growth. In comparison, some north-western and western wards (Nos. 8, 9, 11, 12, 15-20) of the town witness limited but sporadic real estate developments over the years took place primarily on account of demolition of old structures thereby creating vacant space.

  
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**19. List of slums under Bhatpara Municipality**  
**List of slums under Bhatpara Municipality**


Sl.No	Slum Code	Slum Name
1	191106850049.00	Naba Pally(S.C.-1)
2	191106850072.00	Kankinara Jute Mill Line(S.C.-1)
3	191106850086.00	Malakarpara(S.C.-002)
4	191106850106.00	Naya Bazar(S.C.-002)
5	191106850017.00	B L.11(S.C.-3)
6	191106850075.00	Gopi Krishna Goswami(S.C.-3)
7	191106850060.00	Rahuta(S.C.-4)
8	191106850073.00	East Ghosh Para Road(S.C.-4)
9	191106850061.00	Rahuta Purba Para(S.C.-5)
10	191106850047.00	Meghna More(S.C.-6)
11	191106850014.00	B L.01(S.C.-7)
12	191106850032.00	B L.11(S.C.-7)
13	191106850035.00	B L.09(S.C.-8)
14	191106850066.00	South Narayan Pur(S.C.-9)
15	191106850080.00	Sastri Nagar(S.C.-10)
16	191106850055.00	Pramod Nagar(S.C.-11)
17	191106850079.00	Alliance Jute Kuli Line(S.C.-11)
18	191106850051.00	Netaji Nagar Colony(S.C.-12)
19	191106850076.00	Uttar Para(S.C.-12)
20	191106850074.00	Santi Niwas Pally(S.C.-13)
21	191106850081.00	Mitrapara(S.C.-013)
22	191106850040.00	Kela Bagan(S.C.-14)
23	191106850107.00	House Khana(S.C.-014)
24	191106850005.00	B.R.S.(S.C.-15)
25	191106850077.00	Jana Para(S.C.-15)
26	191106850089.00	Satyajit Pally(S.C.-016)
27	191106850109.00	Chak Guradah Ram Mohan Pally(S.C.-016)
28	191106850083.00	Kewtia Palpara(S.C.-017)
29	191106850110.00	Chak Guradah C.M.D. Bagan(S.C.-017)
30	191106850053.00	Palpara Deba Sree Pally(S.C.-18)
31	191106850117.00	Chasipara(S.C.-018)
32	191106850057.00	Purbasha(S.C.-19)
33	191106850111.00	Milangar Udyanagar(S.C.-019)
34	191106850041.00	Hindustan Colony(S.C.-20)
35	191106850091.00	Ram Krishna Pally(S.C.-020)
36	191106850008.00	Bakar Muhalla(S.C.-21)
37	191106850108.00	Uchhegarh Uttarpara(S.C.-021)
38	191106850003.00	Abantipur(S.C.-22)
39	191106850118.00	Uchhegarh(S.C.-022)
40	191106850030.00	Hatat Sukanta Pally(S.C.-23)
41	191106850114.00	Balishkhana(S.C.-023)
42	191106850031.00	Hatpukur Colony(S.C.-24)
43	191106850067.00	Subhashpur(S.C.-24)
44	191106850056.00	Purba Para(S.C.-25)
45	191106850063.00	Sarat Pally - Ward (33) (S.C.-25)
46	191106850028.00	Guptar Bagan(S.C.-26)
47	191106850078.00	New Town(S.C.-26)
48	191106850112.00	Manasha Colony(S.C.-027)
49	191106850122.00	Nayan Pally(S.C.-027)
50	191106850113.00	Sthirpara(S.C.-028)
51	191106850115.00	Kamar Pukur Dhar(S.C.-28)
52	191106850100.00	Jay Chandi Tala(S.C.-029)

  
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53	191106850120.00	Auckland Jute Mill Line(S.C.-029)
54	191106850059.00	Rabindra Pally - Ward (15) (S.C.-30)
55	191106850119.00	Meghnas Jute Mill Line(S.C.-030)
56	191106850045.00	Mangal Pandey Pally(S.C.-31)
57	191106850121.00	Circus Jute Mill Line(S.C.-031)
58	191106850029.00	Gurdah(S.C.-32)
59	191106850046.00	Meghna More(S.C.-33)
60	191106850123.00	Nn(S.C.-033)
61	191106850094.00	Paler Math(S.C.-034)
62	191106850124.00	N.N(S.C.-034)
63	191106850064.00	Satadal Pally(S.C.-35)
64	191106850024.00	B L.08(S.C.-36)
65	191106850102.00	Dule Para(S.C.-037)
66	191106850044.00	Kundur Bagan(S.C.-38)
67	191106850105.00	Sree Rampur(S.C.-039)
68	191106850036.00	Goyala Para - Ward (13) (S.C.-40)
69	191106850027.00	Durga Nagar(S.C.-41)
70	191106850101.00	Bijay Nagar(S.C.-042)
71	191106850098.00	Rustam Gumti(S.C.-043)
72	191106850104.00	Badam Tala Milan Pally(S.C.-044)
73	191106850018.00	B L.12(S.C.-45)
74	191106850103.00	Fakir Para(S.C.-046)
75	191106850116.00	Manikpir(S.C.-047)
76	191106850082.00	Bansh Bagan(S.C.-048)
77	191106850068.00	Sugia Para - Ward (15) (S.C.-49)
78	191106850015.00	B L.02(S.C.-50)
79	191106850006.00	Baburani Para(S.C.-51)
80	191106850043.00	Kumar Para Burning Ghat(S.C.-52)
81	191106850097.00	Hatath Colony(S.C.-053)
82	191106850021.00	B L.19(S.C.-54)
83	191106850023.00	B L.07(S.C.-55)
84	191106850025.00	B L.20(S.C.-56)
85	191106850087.00	Ukil Bagan(S.C.-057)
86	191106850022.00	B L.06(S.C.-58)
87	191106850099.00	64 Pally(S.C.-059)
88	191106850001.00	1 No. Kebin Road(S.C.-62)
89	191106850095.00	Fakir Para(S.C.-063)
90	191106850069.00	Sugia Para - Ward (14) (S.C.-64)
91	191106850004.00	Ambagan(S.C.-65)
92	191106850013.00	Begun Khet(S.C.-66)
93	191106850020.00	B L.13(S.C.-67)
94	191106850092.00	Ramnagar East(S.C.-068)
95	191106850090.00	Bl-17(S.C.-069)
96	191106850084.00	Kela Bagan(S.C.-070)
97	191106850062.00	Sarat Pally - Ward (25) (S.C.-71)
98	191106850039.00	Kantadanga Road(S.C.-73)
99	191106850037.00	Goyala Para - Ward (5) (S.C.-74)
100	191106850050.00	Naya Bazar(S.C.-75)
101	191106850016.00	B L.10(S.C.-76)
102	191106850052.00	Padma Pukur Road(S.C.-77)
103	191106850010.00	Barui Para(S.C.-78)
104	191106850054.00	Panchanantala(S.C.-79)
105	191106850088.00	Sundiya Para(S.C.-080)
106	191106850065.00	Satin Sen Nagar(S.C.-81)
107	191106850042.00	Jagan Nath Colony(S.C.-82)
108	191106850033.00	B L.09(S.C.-83)

  
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109	191106850026.00	Chalta Road(S.C.-84)
110	191106850038.00	Kantadanga(S.C.-85)
111	191106850058.00	Rabindra Pally - Ward (24) (S.C.-86)
112	191106850071.00	Surpara Road(S.C.-87)
113	191106850048.00	Mula Zore(S.C.-88)
114	191106850012.00	Bazar Road(S.C.-89)
115	191106850085.00	21 No Goli(S.C.-090)
116	191106850093.00	Nag Bagan(S.C.-091)
117	191106850009.00	Bankim Nagar(S.C.-92)
118	191106850011.00	Battala Ramkrishna Pally(S.C.-94)
119	191106850070.00	Sundia(S.C.-95)
120	191106850125.00	Suormari(S.C.-096)



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**20. List of Non slums under Bhatpara Municipality**

List of Non-Slums under Bhatpara Municipality is given below:-

S/ No	Name of Non-Slum
1	Bhatpara Area from Ward No-01 to 05
2	Rathtala Fingapara Kantadanga Area from Ward No-06, 07 & 34
3	Kankinara Area from Ward No-08 to 14
3	Jagatdal Area from Ward No-15 to 18
4	Shyamnagar Area from Ward No-19 to 30
5	Madra Subashpur Area from Ward No-31 to 33
6	Sthirpara Area in Ward No-35

Land of total Non-Slum Area is 21.1 Sq.Km.

**21. Project Justification**

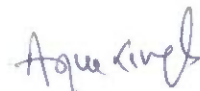
Bhatpara Municipality selected the slum 1 No. Kebin Road, Kewtia Palpara & Sthirpara slum for the following reasons as project for preparation of DPR under slum free city plan – PMAY/HFA.

1. The condition of living in the slum is unhygienic since majority of the slum dwellers rear pigs.
2. Land belongs to the Private Ownership..
3. 40 years old settlement
4. The State Highway - 1 is only 1.8kms away
5. Major population is living in huts, made of darma / bricks with tin sheets and asbestos/tiles on roof.
6. No sewerage system
7. Majority portion of roads are brick paved or Katcha roads.
8. Habitation pattern in the slums is congested with insufficient open space
9. Land belongs to Private Ownership.

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



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## 22. Existing Slums Details

The environmental condition in the slums is poor. It lacks basic civic amenities mainly drainage, thereby leading to water logging, mainly during rainy season. Majority of the residents are involved daily labour in their rearing. This has led to an unhygienic living condition in the slum. Most of the roads within slums are brick paved or kutcha road. Though there are no 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

#### Income and Expenditure Pattern of Households (HH)

The average monthly income of most of the Household varies between Rs 2000 – Rs 3000.

Average Monthly Income of Household(in Rs.)					
<2000	2000-3000	3000-4000	4000-6000	6000-9000	>9000
9	189	0	0	0	0

Average Monthly Expenditure of Household(in Rs.)					
<2000	2000-3000	3000-4000	4000-5000	5000-8000	>8000
10	187	1	0	0	0



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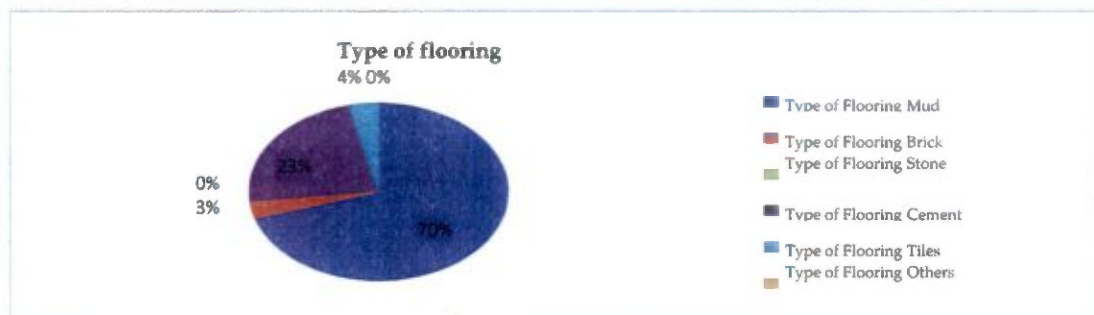
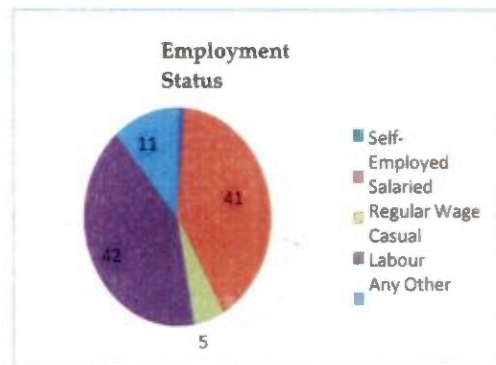
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**Employment Status**

It is observed that only 25% of the total population constitute of earning family members and their employment status is as follows:

Self-Employed	Salaried	Regular Wage	Casual Labour	Any Other
3	94	12	96	26

41% of the people are salaried workers most of whom works under Bhatpara Municipality



  
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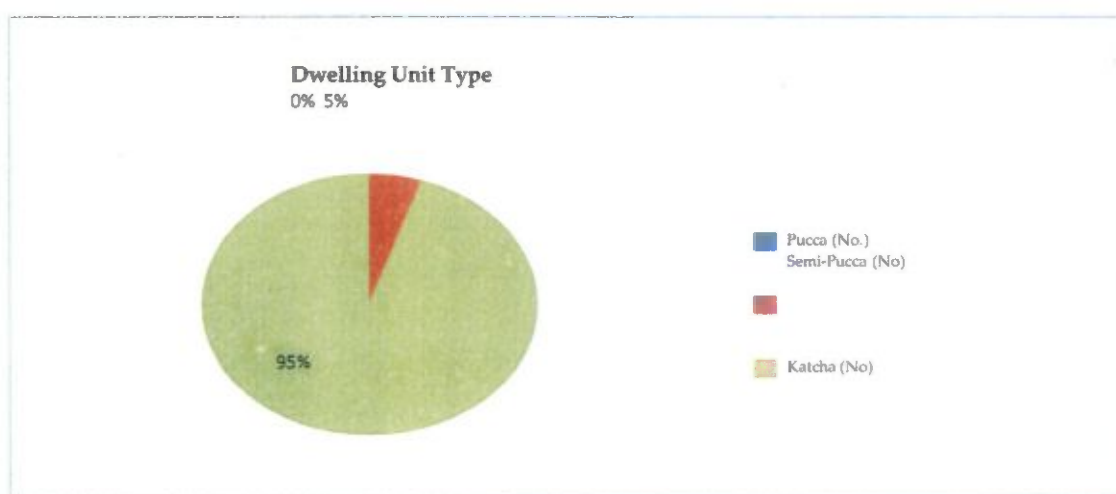
### Migration

Maximum dwellers have migrated from rural areas due to lack of employment in agriculture sector. Out of 198 Household about 191 household had migrated from rural to urban area. Majority of the population of this slum is living for more than 40 years in this slum. Hence, dwellers are now permanently depending on 1 No. Kebin Road, Kewtia Palpara & Sthirpara slums. This justifies as a parameter on the importance of Slum for Insitu 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.

The total number of dwelling units in the slum is 196 of which 10 are semi-pucca houses and 186 kutchha houses. It is observed that some dwelling units have multiple partitions holding more than 1 family.

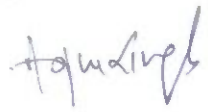


All 196 dwelling units have Raniganj tiles on roof

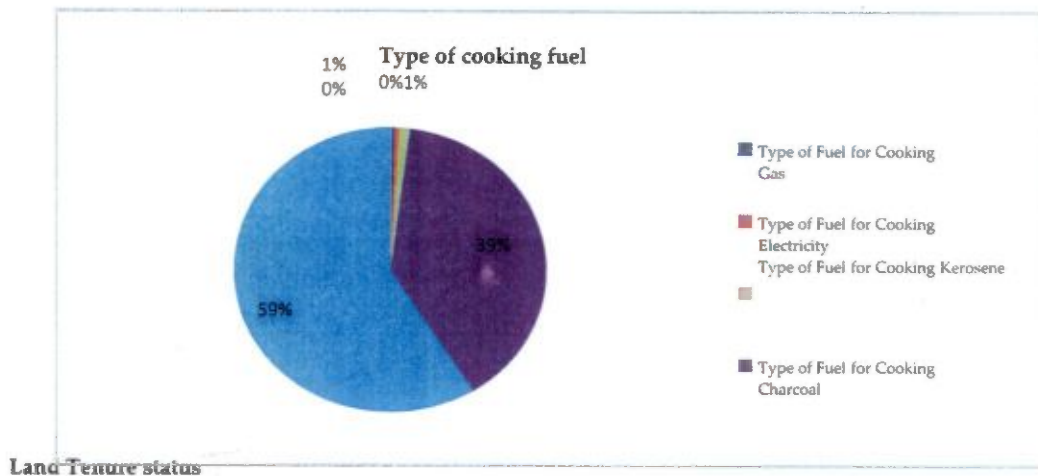
House by Type/Structure		
Pucca(Dilapidated)	Semi-Pucca	Katcha
0	10	186

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.

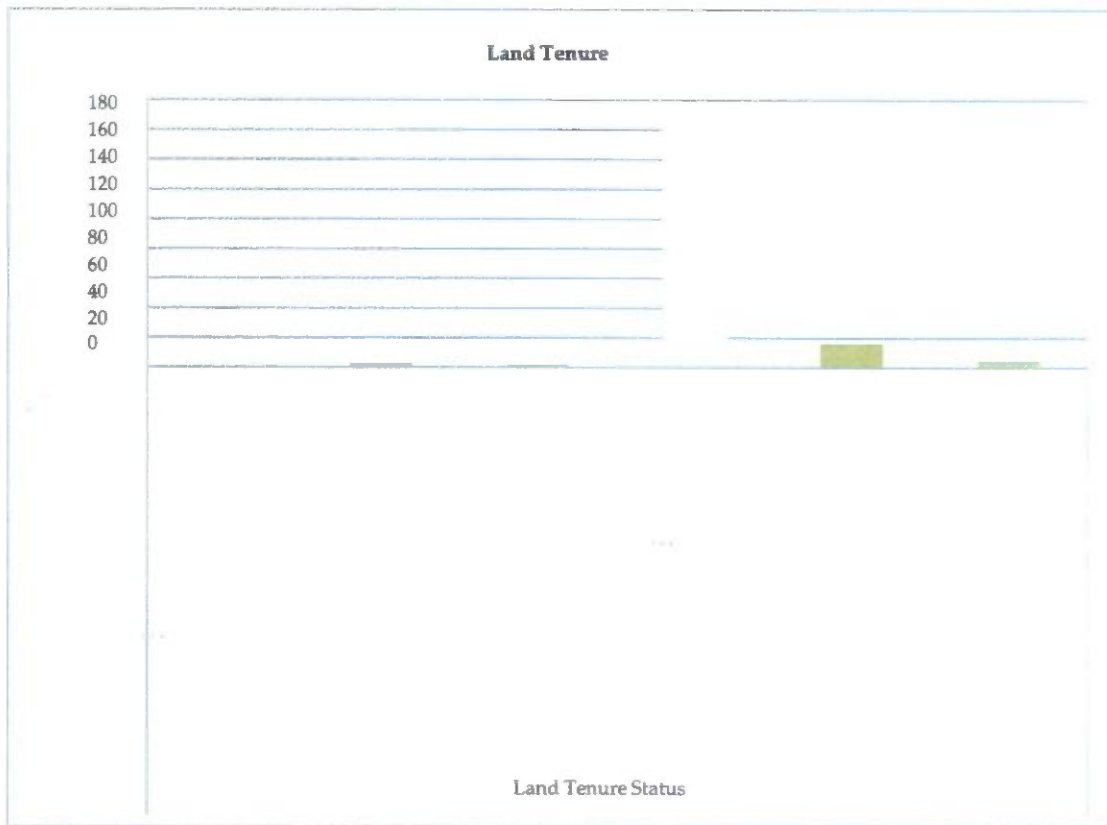
  
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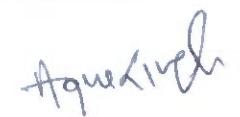




Majority of the existing household are encroachment on public land.



  
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**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, Sewerage and drainage, Solid waste, Roads, Electricity

**Social infrastructure:** Health, School, Community Hall, Post Office

**Status of Physical Infrastructure**

Sl. No.	Physical Infrastructure	Status
1	Connectivity to City-wide Water Supply System	Partially Connected
2	Connectivity to City-wide Storm-water Drainage 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	Daily
6	Arrangement for Garbage Disposal	Municipal staff
7	Frequency of Clearance of Open Drains	Once in 2 days
8	Approach Road/Lane/Constructed Path to the slum	Motorable Kaccha
9	Distance from the nearest Motorable Road	Less than 0.5KM.
10	Internal Road	Non-Motorable Kaccha
11	Whether Street light facility is available in the slum	No


**Water Supply****Existing condition of water supply**

1 No. Kebin Road, Kewtia Palpara & Sthirpara Slum is Partially Connected City-wide Water Supply System

Source of Drinking Water							
Within Premises			Outside Premises				
Individual tap	Tube well/Bore well/Hand pump	Open well	Public tap	Tube well/Bore well/Hand pump	Open well	Tank/ Pond	River/Canal/Lake/Spring
2	0	2	193	0	0	0	0

Majority of the household uses public taps for water supply. The situation of water supply in the slum is poor. There is presently only one water tank (ESR) but the slum is not connected to its supply. 194 households replied that they receive water supply more than 2 hours while, 2 households replied they receive 1 to 2 hours daily.

  
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### Sewerage and Storm Water Drains

Drains, sewerage system is available is poor. The slum dwellers are heavily into rearing of pigs as result of which the living condition is unhygienic. Disposal of storm water/ Sullage disposal drain/ culverts are not available. Stagnant water has been observed at many places in and around the slum. 66% of the household uses community septic tank/flush latrine, 24% uses community dry latrines, 9% use shared septic tank/flush latrine, and open defecation doesn't prevails. The existing toilet facilities in the slum are of poor condition.

Other sanitary facilities used latrine	Shared Septic Tank/Flush Latrine	Shared Septic Tank/Flush Latrine	Shared Septic Tank/Flush Latrine	Community Septic Tank/Flush Latrine	Community Dry Latrine	Open Defecation
0	1	18	0	127	46	0

Majority of the population (89%) use community bath while 10% household doesn't have bathroom.

Bath Room Facilities available			
Within Premises	Outside Premises	Community Bath	No Bathroom
2	1	172	19

### 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 2 days.

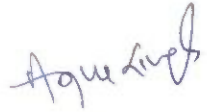
### Roads

Approach road to the slum which is less than 0.5 KM far from the slum is a kaccha non- motorable road. 53% the existing roads in front of the houses are non-motorable pucca road,

1% the existing roads in front of the houses are motorable kaccha road, 37% of the existing roads in front of the houses are non motorable kaccha road and only 9% the existing roads in front of the houses are motorable pucca roads.

Roads in front of house			
Motorable Pucca	Motorable Katcha	Non Motorable Pucca	Non Motorable Katcha
16	2	95	65

  
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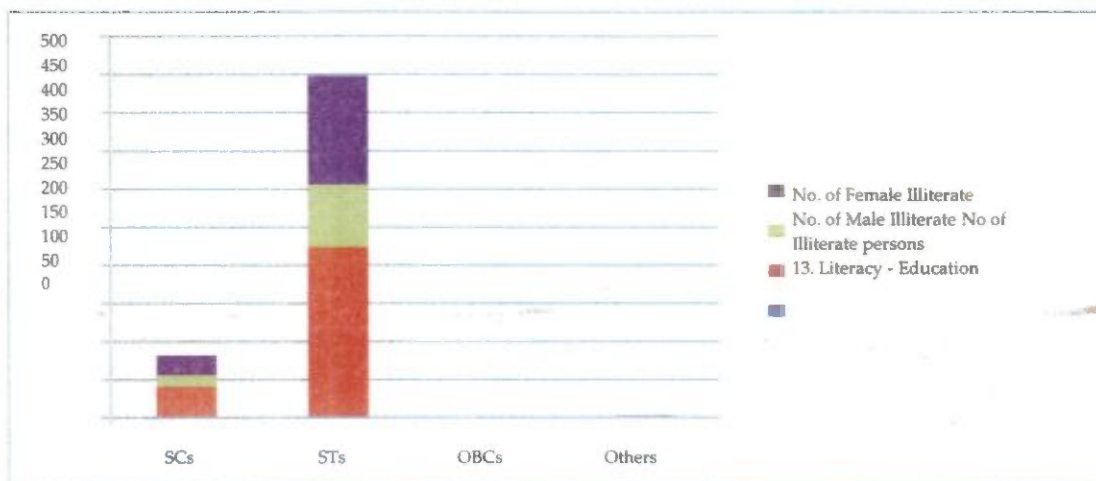


### Electricity

Majority of the household (99%) have electricity connections, 1% of households are using kerosene for lighting their houses. The condition of street lighting is poor in the slum.

### Literacy level

It is observed that majority of the population is illiterate. Literacy of the female population is more than that of the male.



### Details of Social Infrastructure at a glance:

Education Facilities	
Pre-primary School	NA
Anganwadi under ICDS	With distance less than 0.5 kms
Municipal pre-school	0
Private pre-school	0
Primary School	
Municipal	NA
State Government	With distance less than 0.5 kms
Private	NA
High School	
Municipal	NA
Private	NA
State Government	With distance less than 0.5 kms
Adult Education Centre	NA
Health Facilities	
Urban Health Post	NA
Primary Health Centre	With distance less than 0.5 kms
Government Hospital	1.0 to 2.0 kms
Maternity Centre	0.5 to 1.0 kms
Private Clinic	With distance less than 0.5 kms
Registered Medical	With distance less than 0.5 kms
Ayurvedic Doctor/Vaidya	1.0 to 2.0 kms

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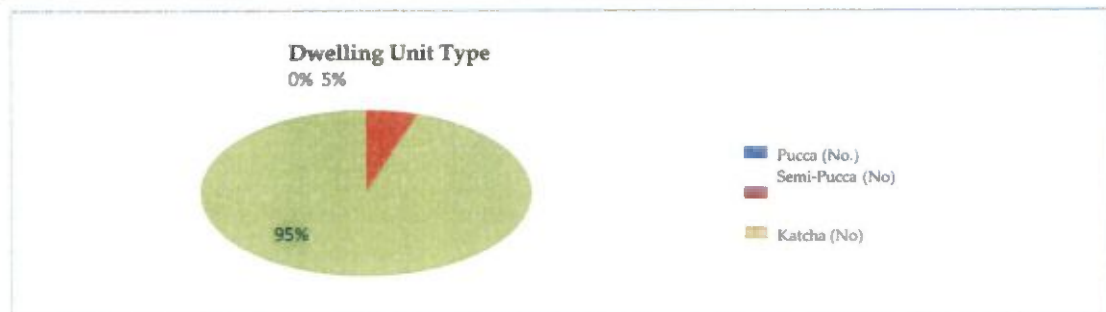
Social Development/Welfare	
Community Hall	NA
Livelihood/Production Centre	NA
Vocational training/Training-cum-	1.0 to 2.0 kms
Street Children Rehabilitation	0
Night Shelter	0
Old Age Home	2.0 to 5.0 kms
Self Help Groups/ DWCUA Groups	0
No. of Neighbourhood	0
Slum-dwellers Association	0
Youth Associations	1
Women's Associations/Mahila	0

### 23. Housing Status

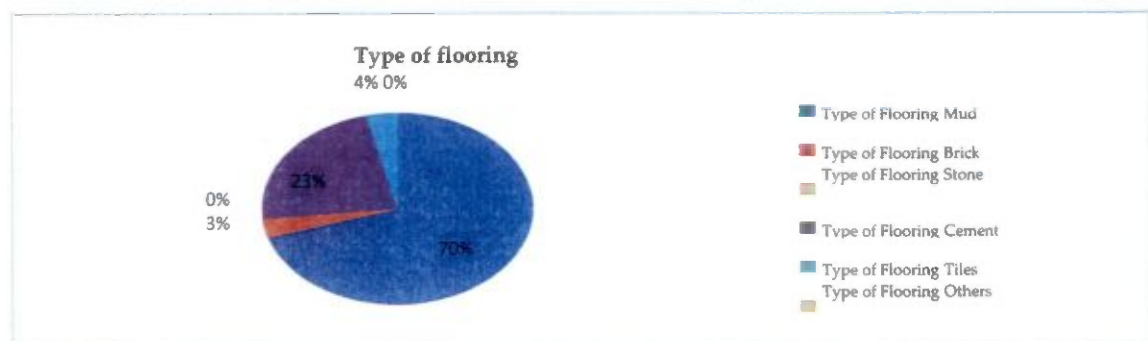
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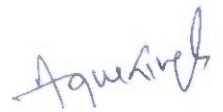
House by Type/Structure		
Pucca(Dilapidated)	Semi-Pucca	Katcha
0	10	186



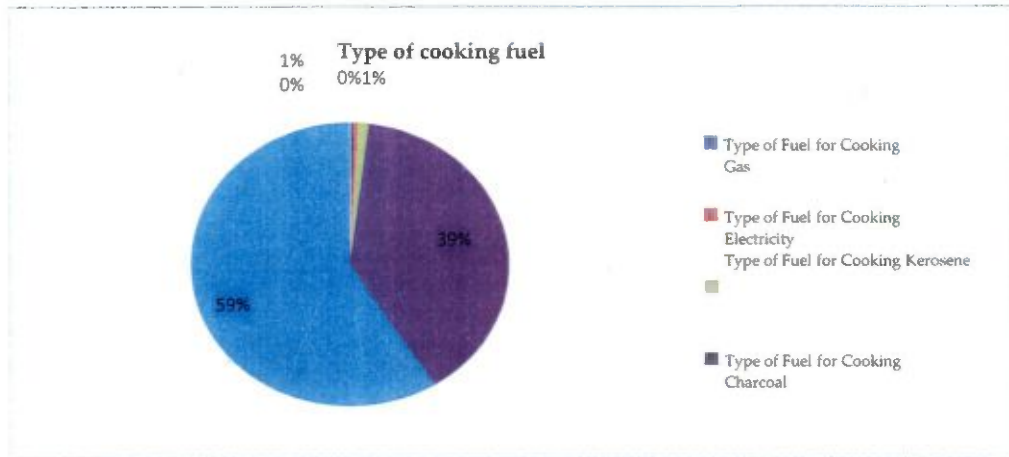
All 196 dwelling units have Raniganj tiles on roof



  
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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.



#### 24. Social infrastructure

Education Facilities	
Pre-primary School	NA
Anganwadi under ICDS	With distance less than 0.5 kms
Municipal pre-school	0
Private pre-school	0
Primary School	
Municipal	NA
State Government	With distance less than 0.5 kms
Private	NA
High School	
Municipal	NA
Private	NA
State Government	With distance less than 0.5 kms
Adult Education Centre	NA
Health Facilities	
Urban Health Post	NA
Primary Health Centre	With distance less than 0.5 kms
Government Hospital	1.0 to 2.0 kms
Maternity Centre	0.5 to 1.0 kms
Private Clinic	With distance less than 0.5 kms
Registered Medical Practitioner(RMP)	With distance less than 0.5 kms
Ayurvedic Doctor/Vaidya	1.0 to 2.0 kms
Social Development/Welfare	

  
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Community Hall	NA
Livelihood/Production Centre	NA
Vocational training/Training-cum-production centre	1.0 to 2.0 kms
Street Children Rehabilitation centre	0
Night Shelter	0
Old Age Home	2.0 to 5.0 kms
Self Help Groups/ DWCUA Groups in Slum	0
No. of Neighbourhood Groups(NHGs) in slum	0
Slum-dwellers Association	0
Youth Associations	1
Women's Associations/Mahila Samithis	0

## 25. The Supply Demand Gap and Requirements

### The Supply Demand Gap and Requirements

Particulars	Requirements
Housing:	Dwelling Unit provision for 198 Households with <ul style="list-style-type: none"> <li>• 1 Multipurpose Room</li> <li>• 1 Bed Room</li> <li>• 1 Kitchen</li> <li>• 1 Toilet</li> <li>• 1 W.C</li> <li>• 1 Balcony</li> </ul>

Physical Infrastructure Requirement:	Standard Infrastructure Provision for <ul style="list-style-type: none"> <li>• Water Supply</li> <li>• Sewerage &amp; Drainage</li> <li>• Electricity/ Power</li> <li>• Roads</li> </ul>
Requirement:	Provision for- <ul style="list-style-type: none"> <li>• Informal Market</li> <li>• Community centre</li> <li>• Piggery</li> </ul>

  
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**Physical Infrastructure required**

Water supply, Sewerage, Drain, Electricity

**Social Infrastructure required**

Community centre, Informal market complex

**Project Development Option**

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

**26. Financial Implementation**

The following models can be adopted:

**Community Partnership:** implies development of housing by involvement of community

**PPP:** the market existing can be redeveloped through PPP for providing livelihood means to the slum dwellers

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

**Public Consultations:**

Public consultations play a key role in the success of project. To make the system transparent and to create awareness among the slum dwellers, consultations are required. Through the regular interaction with the slum dwellers, the following can be known in greater details which are the prime points for the success of the project.

- Composition of beneficiaries
- Socio-economic profile
- Benefits incurred viz., social, economic, etc.
- Perception on the implementation of the Scheme
- Knowledge of PMAY

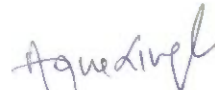
This is an innovative technique which increases the success rate of the project, assess the appropriateness of the scheme concept and design and its effectiveness in meeting objectives and the extent to which it have contributed towards achieving the goal.

**27. Post Project Monitoring**

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.

  
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## 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



## Municipal Corporation

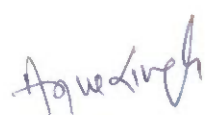
The Municipal Corporation shall act as the implementation agency for the project. Keeping in mind the criticality of the project, a dedicated '**Bustee Works Management Committee (BWMC)**' has been set up for implementation and operation & maintenance (O&M) of the proposed infrastructure under the scheme.

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.

  
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- 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 Ward 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

  
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### 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:

#### 28. Water Supply, Drainage and Solid waste management

From the very inception of Bhatpara as municipality, the main source for the supply of drinking water was from river Hooghly. Water was treated at vintage water treatment plants run by jute mills and distributed through pipeline network covering a small part of the town. Over the years, municipality has taken up number of water supply augmentation , including i) laying piped water supply distribution network by drawing funds from its own budget and other sources like CUDP III, 10<sup>th</sup> Finance commission etc., ii) rolling out 24x7 water supply scheme, a Rs. 250 crores project (2010-2014) implemented by KMDA under JNNURM, involving construction of a new 23 MGD Water Treatment Plant at Jagatdal, 18 overhead reservoirs and further spreading out of surface water pipeline network in other parts.

Currently, the town has a total of 330 km of surface water pipeline network catering to 96% of total population of the city and providing direct water connections to 31,000 households, of which 110 km runs within wards 1-22 and the remaining in the other 13 wards. Post the implementation of JNNURM project, daily piped water supply of the town has reached at 70 MLD.

Despite the existence of surface water supply network and coverage, municipality has to resort to ground water to meet the supply at some parts of the town. As per ULB records, 10% of the entire water supply is dependent on groundwater through deep tube wells and hand pumps, mainly in the ward nos. 06, 07, 25, 32 and 35.

The table below presents a service level standard of Bhatpara in terms of coverage of the city with respect to water supply.


  
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Table 10: Water Supply Benchmarks for Bhatpara Municipality

S/No	Indicator	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Coverage of Water Supply Connection	100%	100%	82%	92%
2	Per Capita available of Water at consumer end	135 Lpcd	135 Lpcd	105 Lpcd	135 Lpcd
3	Extent of metering of Water Connections	100%	100%	0%	0%
4	Extent of Non-Revenue Water	20%	20%	20%	20%
5	Continuity of Water Supply	24/7 Hrs/Day	24/7 Hrs/Day	10 Hrs./Day	18 Hrs/Day
6	Efficiency in redressal of customer complaints	80%	80%	82%	90%
7	Quality of Water supplied	100%	100%	80%	95%
8	Cost recovery in water supply service	100%	100%	22%	35%
9	Efficiency in collection of water supply related charges	90%	90%	60%	70%

Source: MoUD, GoI and Bhatpara Municipality, 2014

  
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**Storm water Drainage**

Mukterpur canal starting from Tinshukia to river Hoogli (5 km in length) is the main channel for waste water outlet of the town. Other two main drains, namely, Rishi Bankimkhal and Shyam Nagar Khal, run through the northern and southern boundary area feeding canals of Mukterpur and Barti Beel respectively. These channels now have been silted. The banks of the channel are fairly high with respect to the intermediate spread of land. Bhatpara has 107 km of pucca drains and 125kms of katcha drains.

Due to lack of maintenance and heavy siltation these channels are not adequate for drainage in current form. As a result, a large number of low lying pockets, which remains water logged in the rainy seasons, have been created. The land in the municipal area is generally flat and the slope is towards intermediate field from the riverbanks.

**Table 11: Storm water Drainage Benchmarks for Bhatpara Municipality**

S/No	Indicator	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Coverage of Storm Water Drainage Network	100%	100%	80%	85%

**Sewerage & Sanitation**

The sewerage network has only 15% coverage in the entire city. The network has primarily evolved in three stages, which are:

- **Stage I (1931-1973):** It started with laying of initial drainage network in 1931, which was further extended by the PHE in 1973. This led to laying of total 20.42 km of drainage network at this stage. Also a STP of capacity 10 MLD was constructed which is presently functional.
- **Stage II (1987-1993):** Bhatpara was brought under the purview of Ganga Action Plan (GAP) in the period 1987-1993, during which the old drains and outfall points were intercepted and 5 lifting stations and 2 pumping stations were constructed for better collection and transmission. A total of 15 km of pipeline was constructed during this phase in wards 1-22.
- **Stage III (2013- 2017 Projected):** Further improvement of the sewerage system is being implemented under NGRBA since 2013. Scheduled to be completed by 2017, this project is focused on eastern wards of the municipality, which has no sewerage system currently. As part of this Rs. 332 crores project, key envisaged outcomes include:
  - Laying of 125 km of Sewerage Pipeline
  - Setting up of 23 lifting stations
  - Setting up of 3 Pumping Stations
  - Setting up of 3 STPs at a) Jagatdal ward No 15, b) Dipali Math ward No 23 and c) Rabindra Pally ward No 6 with a total capacity of 61 MLD

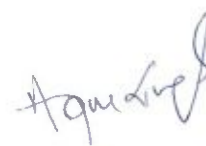
As on June, 2014 the project is running on time and 27% of the project work is already completed.

In addition to sewerage and sanitation works carried out in above three stages, municipality had underwent annual repair and maintenance work for the existing pipelines leveraging own fund of the municipality based on as-is-where-is basis.

The table below presents a service level standard of Bhatpara in terms of coverage of the city with respect to sanitation and sewerage. Table clearly shows though toilet coverage of the town is reasonably good, but lot of interventions are required to improve sanitation and sewerage facilities as there is no household level drainage facility leading to unhygienic environment in slums.



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Table 12: Sewerage and Sanitation Benchmarks for Bhatpara Municipality

	Indicator	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Coverage of Toilets	100%	100%	85%	90%
2	Coverage of wastewater network services	100%	100%	25%	45%
3	Collection Efficiency of Waste Water Networks	100%	100%	60%	65%
4	Adequacy of Waste water treatment capacity	100%	100%	45%	55%
5	Extent of Reuse and recycling of treated wastewater	20%	20%	3%	15%
6	Quality of Waste Water Treatment	100%	100%	94%	95%
7	Efficiency in redressal of customer complaints	80%	80%	60%	75%
8	Extent of cost recovery in Waste Water Management	100%	100%	4%	7%
9	Efficiency in collection of sewerage charges	90%	90%	0%	0%

Source: MoUD, GoI and Bhatpara Municipality 2014

**Solid Waste Management**

Bhatpara Municipality generates approximately 6050 MT/month of solid waste. Presently there is no proper solid waste management in the municipality and it is dumped in open landfill sites. There are two spots which currently the municipality uses as dumping grounds. They are: i) Madral low cost treatment plant (in use for last 10 years) and ii) Fingapara Ward 29-35 border (in use for last 4 years). The waste is collected mostly by Handcarts and then dumped by tractors and trailers. Recently, a SWM pilot project (Rs. 28 Crore approx.) is being implemented under NGRBA.

The table below presents a service level standard of Bhatpara in terms of coverage of the city with respect to Solid Waste Management. In terms of household level coverage solid waste management and segregation of municipal solid waste, the municipality is not at a good stage.

  
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Table 13: SWM Benchmarks for Bhatpara Municipality

	Indicators	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Household level coverage of solid waste management services	100%	100%	25%	45%
2	Efficiency of collection of municipal solid waste	100%	100%	90%	92%
3	Extent of segregation of municipal solid waste	100%	100%	15%	20%
4	Extent of municipal solid waste recovered	80%	80%	80%	85%
5	Extent of scientific disposal of municipal solid waste	100%	100%	15%	40%
6	Extent of cost recovery in solid waste management services	100%	100%	10%	15%
7	Efficiency in collection of solid waste management charges	90%	90%	10%	11%
8	Efficiency in redressal of customer complaints	80%	80%	85%	90%

### 29. 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:

**'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.

### 30. Proposed Intervention & Building Plan

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. DUs have been designed after required calculations. The following table provides the breakup of the building units based on its type:

  
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### Building Plan

The buildings are proposed to cover an area of approximate 30 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-25 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

- 2
  - 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 225 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.

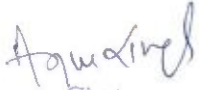
### Design data

- 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>

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.

  
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The details of proposed roads provide are as follow:

- Terrace finish: 1.5 kN/m<sup>2</sup>
- Earthquake load: As per IS-1893 (Part 1) - 2002
- Depth of foundation below ground: 1.5 m
- Walls: 230 mm thick brick masonry walls at external and 115mm 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)

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.

Construction of open Drains with 250 and 300 size are proposed by using 1st class bricks masonry in CM 1:4 over a bed of 100mm thick C.C. 1:3:6, filling of edged with 1:2:4 artificial stone flooring, 12mm cement plaster (1:4.), drain 1.5x1.5m size up to existing RCC pipe Culvert. The drains have been planned in matter that they shall have an outfall on connecting drains. The playground has drains running on both side, one on the internal side along the road and the other on the external side. The boundary wall along the playground will be provided with weep-holes.



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### **31. Summary of Investment**

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.

*Social infrastructure :* Cost for the social infrastructure (like community halls, Balwadi / School, common toilet & bath etc. Market/ Shopping, Play area/ park and parking) should also be calculated in a similar manner prescribed above.

*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 :* There should not generally be any cost for land unless the land needs to be purchased/ acquired for the scheme implementation, where necessary.

*Operation & Maintenance Costs :* Costs 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.

#### ***GOI Contribution:***

PMAY scheme guidelines stipulate that, fifty percent (50%) of the cost of provision of basic civic and social infrastructure and amenities and of housing, including rental housing and transit housing for in-situ redevelopment in slums, would be borne by the Centre. However, for the North Eastern and Special Category States the share of the Centre would be 90% including the cost of land acquisition, if required.

The Central share would be available as per milestones set out in Memorandum of Agreement (MoA). GoI would also extend overall support to the implementation of the HFA which would include (a) Technical guidance and assistance to the States/cities and funds for preparatory activities (b) Supporting community education/mobilisation through engagement of non-governmental organizations

  
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**State Contribution:**

The decision would be left to the State/UT as to the sharing of the amount given by the Centre as explained above, between infrastructure costs and shelter subsidy, and the means of raising their matching share. However, it is mandated that state share should be a minimum of 20% of the cost of provision of infrastructure and civic amenities, to ensure their financial and monitoring stake in the works.

**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 5% of total cost . As per PMAY guidelines no contribution from the beneficiaries is expected in infrastructure improvements.

The ability of these beneficiaries to access formal affordable credit in case of housing is difficult, hence enabling structures/frameworks would need to be evolved. The beneficiaries would need to actively participate in the process of accessing formal credit. Options such as aggregation of loans to a community of beneficiaries wherever feasible, should be examined and encouraged.

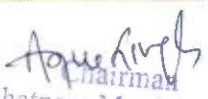
**ULB Contribution:**

The remaining share would have to be arranged by the ULBs out of its resources. ULBs would need to continue fiscal reforms that have already been initiated under PMAY and other schemes. Approach to financing of the ULB contribution will be a combination of initiatives that ring-fence and maximise internal accruals, and developing a framework for sustainable community participation.

The phased financial projections would then be compared with the investments to assess the adequacy. In case the finances are inadequate, the investments would need to be reassessed for phasing and prioritization.

Bhatpara Project Cost						
S/No	Scheme	Units	Qty. In Nos	Rate( in Rs/ Unit)	Amt (In Lakhs)	Sub Total in Lakhs
1	Housing					
	Dwelling Unit	Nos	289	367858	1063.11	
	Total Housing Cost Sub Total (A)				1063.11	1063.11
	B.Infrastructure					
2	Roads					
	C.C.Road	Sq/Mtr.	4620	1736	80.20	80.20
3	Storm Water Drain					
	Sec: 100mmX300mm	Mtr	1028	2540	26.11	26.11
	Total Infrastructure Cost Sub Total (B)				106.31	106.31
	Total (A+B)				1069.42	1069.42

  
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## 32. Convergence of Health and Education

### Health

Development Objectives for the Health Care Service Delivery Improvement Plan. Some of the development objectives, which the Bhatpara 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 municipality 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.

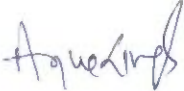
#### Theme 2: Reproductive and Child Health Care Services:

- 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.

#### Theme 3: 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.

  
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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 Municipality 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 Municipality.
- 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.

  
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**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.

### 33. Environment Impact Assessment

IMPACT & REMEDIES		
1	Utilization of alternative material characteristic and availability of alternative material	Locally available bricks etc will be used.
2	Rehabilitation of water bodies and measures for maintaining surface runoff smoothly	No water body is affected by the alignment of road. The roadside 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	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	
	c) Possible measures of avoidance	
	(i) Identification of alternative routes	
	(ii) Relocation of cultural property in consultation with local	
	(iii) Common property	
		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	The construction materials require for the project shall be procured from:
	a) Sourcing of materials from quarries	a) Stone metal: from the existing quarry
	b) Lead from various existing quarries	b) Bricks: from the existing brick fields, nearby the project site
	c) Adequacy of materials for the project in these quarries	

  
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### 34. 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 Mayor-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.

  
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- 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.

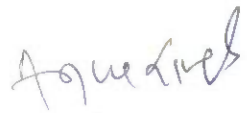
### Maintenance:

#### Water Supply:

##### Routine maintenance

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

  
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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.

  
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**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.

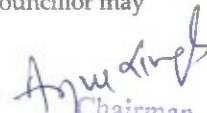
2. They will maintain an attendance Register for the persons attending duties. They should also maintain a register of income (collection) and expenditure.

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.

  
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- 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.

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.

### 35. Institutional Capacity

**Bhatpara 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 29.14 square kilometres is comprised of 20 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.

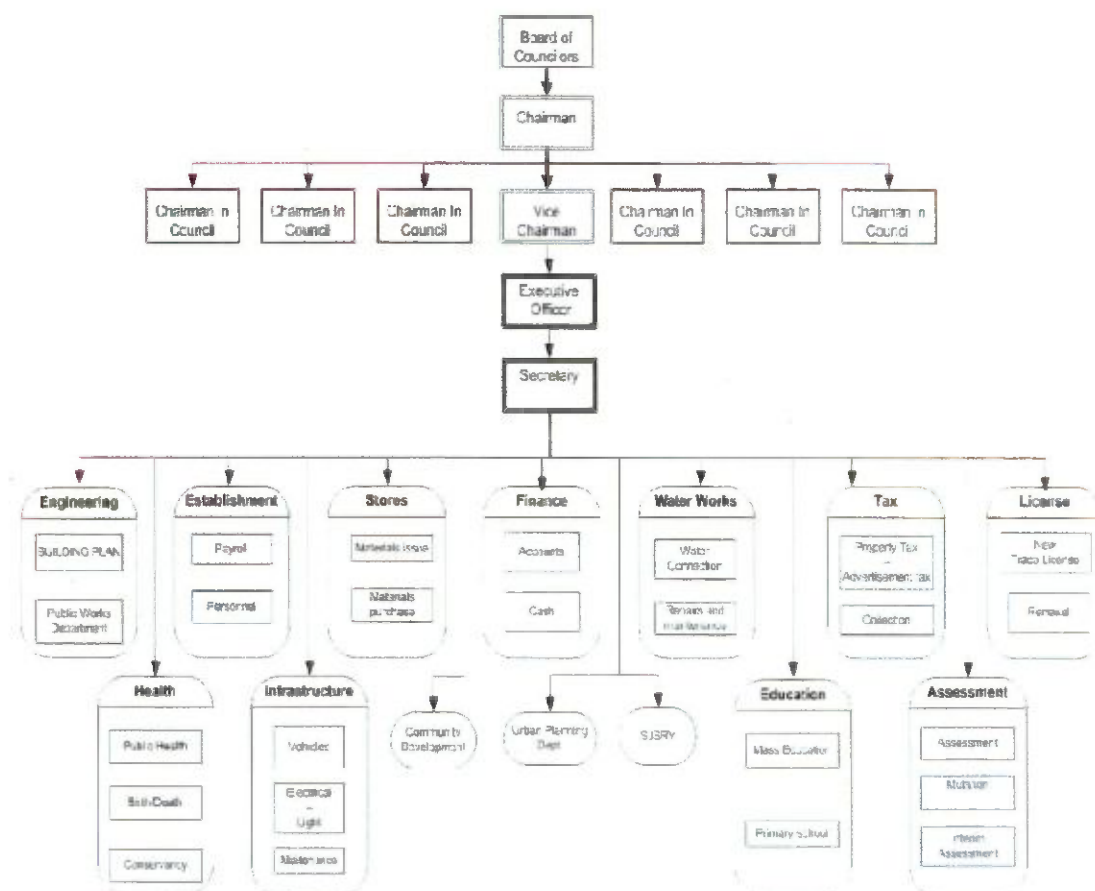
A brief profile of the municipality is provided here below:

- ◆ **Chairman:** Sri Arjun Singh
- ◆ **Area of Operation:** 32.55 square kilometers
- ◆ **Number of Wards:** 35
- ◆ **Population:** 390,467 (2011-12)
- ◆ **Roads:** 1049.57 km
- ◆ **Sewage Line:** Coverage upto 30% of total household
- ◆ **Drain Line:** 232 km
- ◆ **Water Line:** 165.5 km
- ◆ **Number of Street Lights:** 7474

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

• <b>Solid Waste Management</b>	• <b>Markets</b>
• <b>Birth and Death Registration</b>	• <b>Storm Water Drainage and Flood</b>
• <b>Crematoria and burial ground</b>	• <b>Parks and Playgrounds</b>
• <b>Prevention of food adulteration</b>	• <b>Plantations</b>
• <b>Preventive Health Care and Health Care</b>	• <b>Town Planning</b>
• <b>Roads and its development</b>	• <b>Slum Improvement and Urban</b>
• <b>Widening &amp; improvement to roads</b>	• <b>Education</b>
• <b>Street Lighting</b>	• <b>Water</b>
• <b>Bus Stands, Public Urinals</b>	• <b>Beautification</b>
	• <b>Auditoriums</b>

  
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**36. Estimate & Drawing**

DETAILED ESTIMATE FOR THE CONSTRUCTION OF SINGLE UNIT DWELLING HOUSE					
Pradhan Mantri Awas Yojana Housing For All (Urban)					
Total Covered Area- 32.18 sq.m (With Electrical Works)					
Reference of Schedule of Rates : PWD (W.B.), Schedule of Rates Building & Sanitary w.e.f-01.07.2014 & Corrigenda					
Floor Area 25.37 sqm					
SL NO	Description of Works	Quantity	Unit	Rate	Amount (Rs.)
1	Earthwork in excavation in foundation trenches or drains, in all sorts of soil ( including mixed soil but excluding laterite or sandstone) including removing spreading or stacking the spoils within a lead of 75 m as directed including trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water etc. as required complete.	13	%cu.m.	12047	1566.11
	a) Depth of excavation not exceeding 1500mm .				
	<b>SOR, PWD, P-1, I -2 a</b>				
2	Earth work in filling in foundation trenches or plinth with good earth in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete.( Payment to be made on the basis of measurement of finished quantity of work )				
	a) With earth obtained from excavation of foundation.	11.12	%cu.m.	7831	870.81
	<b>SOR, PWD, P-1, T/3 a</b>				
3	Supplying Laying Polithin Sheets etc. <b>SOR, PWD, P-45, T - 13</b>	22	sqm	25	550
4	Cement concrete with graded Stone ballast (40 mm.) excluding shuttering.a) In ground floor and foundation.6 : 3 : 1 proportion Pakur variety	3.5	cu.m.	5823	20380.5
	<b>SOR, PWD, Page 24 ; Item -10 a</b>				
5	25 mm. thick damp proof with cement concrete (4:2:1) (with graded stone aggregate 10 mm. Normal size) and painting the top surface with a coat of bitumen using 1.7 kg. per sq.m. including heating the bitumen and cost and	6.81	sqm,	297	2022.57
	<b>SOR, PWD, P-45, T-12</b>				
	Brick work with 1st class bricks in cement mortar (6:1)				
	a) In foundation and plinth.	10.43	cum	5719	59649.17
6	b) In super structure	15.24	cum	5943	90571.32
	<b>SOR, PWD, P-29, T -22(a), (b)</b>				
7	125mm thick brick work with 1st. class bricks in cement mortar (4:1). a) In	23.22	sq.m.	783	18181.26
	<b>SOR, PWD, P-73, I -29</b>				
8	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes.	3.94	cu.m.	6851.66	26995.54
	(i) Pakur Variety				

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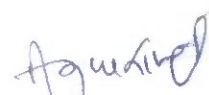
9	Reinforcements for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16G black annealed wire at every inter-section. complete as per				
	(a) For works in foundation, basement and upto roof of ground floor / upto 4m.	0.309	MT	60705.93	18775.74
	(i) Tor steel/Mild steel. <b>SOR, PWD, P-27, T -15(i)</b>				
10	Hire and labour charges for shuttering with centring and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of				
	(When the height of a particular floor is more than 4 m. the equivalent floor ht. shall be taken as 4 m. and extra for works beyond the initial 4 m. ht. shall be allowed under 12(e) for every 4 m. or part thereof.) <b>SOR, PWD, P-66, T -12(a)</b>				
	25 mm. to 30 mm. thick wooden shuttering as per decision & direction of Engineer-in-charge. Ground Floor	37.063	M <sup>2</sup>	360	13342.68
11	Plaster ( to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface, including throating, nosing and drip course where necessary . In ground floor.	116.94	sq.m.	181	21166.14
	A) With 6:1 cement mortar.				
	a) Inside wall 20 mm thick plaster				
	<b>SOR, PWD, P-151, T -2 (i)(b)</b>				
	b) Out side Wall, 15mm th.	111.95	sq.m.	156	17464.2
	<b>SOR, PWD, P-151, I -2 (i)(c)</b>				
	B) 10mm th ceiling plaster (4:1)	23.33	sq.m.	140	3266.2
	<b>SOR, PWD, P-151, I -2 (i)(c)</b>				
12	Neat cement punning about 1.5mm thick in wall, dado, window, sills, floor, drain etc.	26.7	sq.m.	38	1014.6
	<b>SOR, PWD, P-152, I -8</b>				
13	Artificial stone in floor, dado, staircase etc. with cement concrete (4:2:1) with stone chips laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (2:1) including smooth finishing and rounding off corners and including application of cement slurry before flooring works, using cement @	26.49	sq.m.	265	7019.85
	In ground floor.				
	3 mm. thick topping (High polishing grinding on this item is not permitted) with ordinary cement.				
	20mm thick				



	<b>SOR, PWD, P-40, I -3 (i)</b>				
14	Supplying, fitting & fixing MS clamp for fixing door and window frame made of flat bent bar, end bifurcated, fixed in cement concrete with stone chips (4:2:1) a fitted and fixed complete as per direction. 40mm x 6mm x 125 mm length. (Cost of cement concrete will be paid separately)	34	each	22	748
	<b>SOR, PWD, P-90, I -18 (c)</b>				
15	Wood work in door and window frame fitted and fixed complete including a protective coat of painting at the contact surface of the frame other Local wood	0.213	cu.m.	46171	9834.42
	<b>SOR, PWD, P-85, T -1(i)</b>				
16	Panel Shutter of door & Window (each Panel Consisting Of single Plan without Join) 25 mm thick shutter with 12 mm thick Panel of size 30 to 45 cm. Other Local wood	8.52	sq.m.	1567	13350.84
	<b>SOR, PWD, P-105, I -84 (iv)c</b>				
17	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. a) 75mm x 47mm x 1.70mm	32	each	34	1088
	<b>SOR, PWD, P-91, T -20(iv)</b>				
18	Iron Socket Bolt of approved quality fitted and fixed complete. i) 150 mm long x 10 mm dia	11	each	71	781
	<b>SOR, PWD P-93, I-25,c</b>				
19	White washing including cleaning and smoothening surface thoroughly (5 parts of stone lime and 1 part of shell lime should be used in the finishing coat). Two Coats	124.96	%sq.m.	1887	2358
	<b>SOR, PWD, P-155, I -3 (b)</b>				
20	Colour washing with ella with a coat of white wash priming including cleaning and smoothening surface thoroughly external surface One Coat	100.56	%sq.m.	1514	1522.48
	<b>SOR, PWD, P-155, I -4(ii)(a)</b>				
21	Priming one coat on timber, plastered or on steel or other metal surface with synthetic enamel/oil bound primer of approved quality including smoothening surfaces by sand papering etc.				
	1) On timber surface <b>SOR, PWD, P - 162, I - 7(a)</b>	21.69	sq.m.	41	889.29
	2) On Steel Surface <b>SOR, PWD, P - 162, I - 7(b)</b>	2.7	sq.m.	31	83.7




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22	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary.				
	With super gloss (hi-gloss)-With any shade except white.				
	a) On timber or plastered surface Two Coats	21.69	sq.m.	89	1930.41
	b) On Steel surface Two Coats	2.7	sq.m.	86	232.2
	<b>SOR, PWD, P - 162, - 8A(ail),(bil)</b>				
23	Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with				
	16 mm diad with center bolt and round fitting. 300 mm long	2	each	193	386
	<b>SOR, PWD, P-93, I - 27c</b>				
24	Precast piered concrete jally work as per design and manufacture's specification including moulding etc. with stone chips and necessary reinforcement shuttering complete including fitting, fixing in position in all floors.(a) 37.5 mm th. panels	1.69	sq.m.	351	593.19
	Cement & steel required for this item <b>will not be</b> issued by deptt.				
	<b>SOR, PWD, P-32, I - 38 (b)</b>				
25	Supplying, fitting and fixing UPVC down pipes A type and fittings conforming to IS 13592-1992 with necessary clamps nails including making holes in walls, etc. and cutting trenches in any soil, through masonry concrete structure etc. if necessary and mending good damages including jointing with jointing materials ( Spun yarn, valamoid / bitumen / M. seal etc.) complete.				
	<b>P-173, I-21 A (ii), C(ii), D(ii)</b>				
	<b>SOR, PWD, P173, I - 21 A (ii), C(ii),</b>				
	i) UPVC Pipe 110 mm dia	3	Mtr.	291	873
	ii) UPVC Bend 87.5 degree 110 mm dia	2	each	162	324
	iii) UPVC Shoe 110 mm	1	each	128	128
26	M.S.or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor. Grill weighing 10 kg/sq m to16 kg/m2. <b>SOR, PWD, P - 76, I - 10 (i)</b>	0.284	Qntl	8247	2342.15
	<b>(2.70sqm @ 10.5kg per sqm = 28.35 kg)</b>				
27	Shallow water closet Indian pattern(I.P.W.C.) of approved make in white vitreous chinaware supplied ,fitted and fixed in position (excluding cost of concrete for fixing).450 mm long	1	each	1062	1062
	<b>SOR, PWD, (Sanitary) P - 65, I - 1</b>				

  
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28	Foot rest for water closet of size 275 mm X 125 mm with Artificial stone(4:2:1) with 6 mm stone chips and chequered including adding colour as necessary.	1	Pair	70	70
	<b>SOR, PWD, (Sanitary) P - 66, I - 9</b>				
29	Supplying,fitting and fixing cast iron 'P' or 'S' trap conforming to I.S. 3989 / 1970 and 1729 / 1964 including lead caulked joints and painting two coats to the exposed surface. S Trap 100 mm	1	each	923	923
	<b>SOR, PWD, (Sanitary) P - 54, I - 14(B-</b>				
30	Supplying, fitting fixing CI Round Gratings 150mm dia.	1	Each	100	100
	<b>SOR, PWD, (Sanitary) P - 55, I -</b>				
	Construction of 2 circular leach pit of inside diameter 1000 mm. & a depth of 1000 mm. With a layer of 250 mm. Thick brick work with cement mortar (6:1) & honeycombed brick wall (4:1) at every alternate layer upto a height of 925 mm. From bottom and then 125 mm. thick brick wall (4:1) for a height of 300 mm. and covered with 75m. RCC slab (4:2:1) with 8mm tor steel @ 150 mm. centre to centre both ways including plastering and neat cement punning on top of the slab and making hooking arrangment on slab for lifting of the slab if require as well as jointing the connection with the inspection pit (450 x 450) covered with 50mm thick RCC slab (4:2:1) with stone chips and necessary reinforcement and connected with 100 mm dia PVC pipe laid over rammed earth and then covered the pipe properly with powder earth including supplying fitting fixing fibre glass pan P-tap & polythene pipe as per requirement to connect with the inspection pit complete with all respect as per direction	1	Item	7544	7544
<b>TOTAL AMOUNT</b>				<b>Rs.</b>	<b>350000.4</b>
<b>Say</b>				<b>Rs.</b>	<b>350000</b>
<b>Add for Electrical Works (ANNEXURE-I)</b>				<b>Rs.</b>	<b>17858</b>
<b>TOTAL AMOUNT</b>				<b>Rs.</b>	<b>367858</b>
<b>(Rupees Three lakh Sixty seven thousand Eight hundred &amp; Fifty eight only)</b>					

  
Engineer  
Bhatpara Municipality

  
Chief Engineer  
M E Directorate  
Deptt. of Municipal Affairs  
Govt. of West Bengal

  
Chairman  
Bhatpara Municipality



Cost Estimate for 2 Nos Leach Pit for single unit Dwelling Unit					
P.W.D Schedule of Rates effect from 1st July 2014					
(ANNEXURE-II)					
Sl No	Description of Items	Quantity	Unit	Rate	Amount
1	Earth work in excavation of foundation trenches or drains in all sorts of soil (including mixed soil but excluding or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches leveling dressing and ramming the bottom boiling out water aqs required complete. Depth of exavation not existing 1500mm <b>P.No-1, I-2(a)</b>	2.5	%Cu.M	12047	301.18
2	Cement concrete with graded jhama Khoa ballast (30 mm size) excluding shuttering. In ground floor and foundation (a) 6:3:1 proportion.	0.05	Cu.M	5803.06	290.15
3	Brick work with 1st class bricks in cement mortar (6:1). a) In foundation & Plinth <b>P.no-29, I-21(a)</b>	0.01	Cu.M	5719	57.19
4	125 mm. thick brick work with 1st class bricks in cement mortar (4:1) G.Floor <b>P.no-31, I-29</b>	3	SqM	714	2,142.00
5	Controlled Cement concrete with well graded stone chips (20 - mm nominal size) excluding shuttering and reinforcement with complete design of concrete as per I : 456 and relevant special publications submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in charge Consumption of cement will not be less than 300 Kg of cement -with Super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on- the basis of preliminary test and job mix formula. -I n ground floor and foundation. [Using concrete mixture] M 20 Grade <b>P.no-12, I-6(a)</b>	0.145	Cu.M	6871.54	996.37
6	Reinforcemnet for reinforced concrete work in all sorts of structures incl. Distribution bars, stirrups, binder etc. incl. supply of rods, initial straightening & removal of loose rust (if necessary), cutting to requisite length, hooking etc <b>P.no-27, I-15(a)(i)</b>	0.01	M.T	68508	685.08
7	Supplying, fitting and fixing UPVC down pipes A type and fittings conforming to IS 13592-1992 with necessary clamps nails including making holes in walls, etc. and cutting trenches in any soil, through masonry concrete structure etc. if necessary and mending good damages including jointing with jointing materials ( Spun yarn, valamoid / bitumen / M. seal etc.) complete.				
	i) UPVC Pipe 110 mm dia <b>P.no-173, I-21(A)(ii)</b>	4	Mtr	291	1,164.00
	ii) UPVC Bend 87.5 degree 110 mm dia <b>P.no-174, I-21(B)C(ii)</b>	2	Each	162	324
8	Jaffri brick work 125 mm. thick with 1st class bricks in cement mortar (4:1) including 12 mm. thick cement plaster (4:1) in all faces in ground floor. <b>P.no-32, I-35</b>	2	SqM	792	1,584.00
Cost of 2 no leach pit					7,543.97
Total					7,544.00

  
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ESTIMATE FOR ELECTRICAL WORKS FOR ONE DWELLING UNIT UNDER PMAY (ANNEXURE-I)					
Sl.No.	Item of works	Unit	Rate	Quantity	Amount
1	Supplying & fitting polythene pipe complete with fittings as necessary. Under ceiling /beam/bound with 22SWG GI wire inclusive S & Drawing 1x18 SWG GI wire as fish wire inside the pipe & fittings and providing 55 mm dia disc of MS sheet (20SWG) having colour paint at one face first ended at the load point end of the polythene pipe with fish wire (synchronizing with roof/beam casting work of building construction) 19 mm dia 3 mm thick polythene pipe	RM	39	25	975
2	Powerckt wiring supplying and drawing 1 ; 1KV grade single core stranded FR PVC insulated & unseathed single core stranded Copper wire (Finolex make) 2 x 2.5 sqmm (PH & N) +1x1.5 sqmm (ECC) per laid polythene pipe and by the prelaid GI fish wire & making necessary connections as required.	RM	76	50	3800
3	Concealed Distribution wiring in in 2x1.5 sqmm single core standard "FR" insulated and unseathed cop per wire Finolex make & 1x1.5 sq mm single core stranded PVC insulated and unseathed cop per (Finolex make) wire used as ECC in 19 mm bore 3 mm thk. polythene pipe complete with all accessories embedded in wall smooth run to light / fan/call bell point with pino key type switchb (6 Amps) (Anchor make) fixed on sheet metal (16 SWG) Switch Board with bakelite/ perspex (wall matching colour) Top cover (3 mm thick) flushed in wall including mending all good damages to original finish Average per point 6.00 mt.	points	828	10	8280
4	Deistribution concealed wiring with 2x1.5 sq mm (PH & N) single core stranded FR PVC insulated & unseathed single core stranded 1.1 KV grade Copper Wire (finolex) & 1x1.5 sq mm (ECC) single core stranded (PH & N) 1.1 KV grade cu wire (finolex) & 1 x 1.5 sq mm single core stranded PVC insulated & unseathed cu wire (finolex) used as ECC in 19 mm bore, 3 mm thick polythene pipe complete with all accessories embedded in wall 250 volt 5 amp 3 pin plug point including S & F 250 Volt 5 amp 3 pin flush type plug socket & piano key type swich (Anchor make) on existing switch board as mentioned sl. no.3	points	76	2	152
5	Supplying & drawing 1.1 KV grade single core stranded FR PVC insulated & unseathed single core stranded cu Wire 3x2.5 sq mm (finolex make) in the prelaid polythene pipe & by the prelaid GI fishwire & making necessary connection as required (CESC supply to consumer DP near to CESC & inside the room another DP near CESC & inside the room another DP of dwelling units)	RM	86	15	1290
6	Supplying Delivery & instalation on wall of 30/32 amp DP MCB of Havel's make with enclosed box along with all its necessary connection complete.(Anchor)	nos	808	2	1616
7	Earthing in soft soil with 50 mm dia GI pipe (TATA make Medium ) 3.64 mm th. X 3.04 Mtr long and 1 x 4 SWG GI ( hot dip) wire (4 m long) 13' mmdia x 80 mm long GI bolts, double nuts, double washer including S & F 15 mm dia GI protection (1 mtr long) to be filled with bitumen partly under the ground level & partly above GL driven to an average depth of 3.65 m below the GL & restoring surface duly rammed.	each	1715	1	1715
8	Connecting the equipment to earth BUSbar inclusive S&F 10 SWG (Hot Dip) GI wire on wall /floor with a staples buried inside wall /floor as required & making connection to equipments with bolt, nut, washer, cable lugs etc. as required & mending good damages.	M	6	5	30
TOTAL					17858
Rupees Seventeen Thousand Eight Hundred Fifty Eight Only					17858

Engineer  
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Chairman  
Bhatpara Municipality


Detailed Estimate for Single Dwelling unit							
	C/L of main outer wall				125 mm Partition wall		Varandah C/L
		4.65			3.375		1.275
		0.8			1.15		0.9
		1.15			1.15	2.3	2.175
		3.45			2.187		
		1.15			1.9		
		1.7			1.387	5.474	
		3.375			11.149		
		1.275					
		2.825					
		3.125					
		23.5					
	X wall	1.25					
Sl.no.							
1	Earth work in excavation						
	250 mm wall						
	1	23.5	0.75	0.7	12.34		
			0.875	0.7	0.46		
		24.375			12.8	mv	
	125 mm Wall						
		2.625	0.4	0.225	0.24		
	WC	0.4	0.4	0.225	0.04		
	Bath	0.65	0.4	0.225	0.06		
	5.474	0.75		0.225			
		4.724	0.4	0.225	0.43		
	Varanda	1.425	0.4	0.225	0.13		
					0.88		
	Step	0.5	0.9	0.075	0.034		
					13.715	mv	
2	Soling						
		24.375	0.75		18.281		
		11.45	0.4		4.58		
					22.861		
3	Polythene sheet						
		2.575	3.125		8.047		
		2.875	2.625		7.547		
		2	1.65		3.3		
	passage	0.625	2.375		1.484		
	Bath & WC	2.7	0.9		2.43		
	Varandah	1.025	0.6		0.615		
	step	0.9	0.5		0.45		
					23.873		
4	Jhama concrete						
			18.28	0.075	1.371		
			4.58	0.075	0.344		
			23.93	0.075	1.795		
					3.51		
5	Earth work in filling 1/5 excavation						
			13.715	5	2.743		
			23.48	0.375	8.805		
					11.548	mv	

  
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 Chairman  
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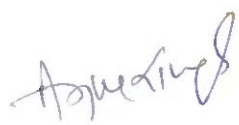
6	B.W (6:1) in Foundation of plinth							
		23.5	0.625	14.6875				
		23.5	0.5	11.75				
		23.5	0.375	8.8125				
				35.25	0.15	5.288		
		23.5	0.25		0.525	3.084		
	X wall	0.938	0.625	0.586				
		1	0.5	0.5				
		1.063	0.375	0.399				
				1.485	0.15	0.223		
		1.125	0.25		0.525	0.148		
	125mm	3.125	0.25		0.525	0.41		
	Bath&WC	2	0.9	0.25	0.523	0.235		
	Kit	5.224	0.25		0.525	0.686		
	Vard	1.925	0.25		0.525	0.253		
	Steps	0.5	0.9		0.15	0.068		
		0.25	0.9		0.15	0.034		
						10.427	mu	
7	DPC	23.5						
		1.125						
		24.625		0.25		6.156		
		3.125						
		1.8						
		5.224						
		10.149		0.125		1.269		
						7.425		
	Less	0.9		0.25	0.225			
		0.9		0.125	0.113			
	3	0.75		0.125	0.281			
						0.619		
						6.806	sqm	
8	BW in super structure (6:1)							
		23.5						
		1.125						
		24.625	2.75	0.25	16.93			
	Parapet	23.8	0.075	0.25	0.446			
						17.376		
	Less opens							
	1	0.9	2.1	1.89				
	4	0.9	0.9	3.24				
	1	0.75	0.9	0.675				
	3	0.75	0.75	1.688				
				7.493	0.25	1.873		
	Lintel							
	1	1.525	1.525					
	4	1.2	4.8					
	1	1.05	1.05					
			7.375	0.25	0.1	0.184		
	Wo2							
	1	3.05	3.05	0.25	0.1	0.076		
					(-)	2.134		
	Net brick work					15.242	mu	

  
 Engineer  
 Bhatpara Municipality

  
 Chairman  
 Bhatpara Municipality

9	125 th. Brick work (6:1)							
	room		3.125	2.6	8.125			
	kit		2.125	2.75	5.844			
			1.65	2.75	4.5375			
			1.45	2.65	3.8425			
	2		0.9	2.1	3.78			
						26.12875		
	Less opening							
	1	0.9	0.9					
	3	0.75	2.25					
			3.15	2.1	6.615			
	Lintel							
	1	1.3	1.3					
	1	1.025	1.025					
			2.325	0.1	0.2325			
					6.8475			
						19.28125		
	Parapet							
		23.5		0.15		3.525		
						22.806		
	pasage	0.75		0.55		0.4125		
						23.219	sqm	
10	Conc M-20							
	Roof slab							
		1.1475	31.003		0.1	3.1		
	Beam		3.625	0.25	0.15	0.136		
			2.575	0.25	0.1	0.064		
	Lintel						3.301	
	D1	1	1.525	1.525				
	W1	4	1.2	4.8				
	W2	1	1.05	1.05				
	WO2	1	3.05	3.05				
				10.425	0.25	0.1	0.261	
	D1	1	1.39	1.39				
	D2	1	1.025	1.025				
	D2	2	1.4	2.8				
	O2	1	0.875	0.875				
	D2	2		6.09	0.125	0.1	0.076	
	Chaja							
	W1	4	1.2	4.8				
	W2	1	1.03	1.03				
	D1	1	1.275	1.275				
	WO2	1	3.05	3.05				
				10.155	0.3	0.075	0.228	
							3.866	mt
11	Reinforcement							
		3.866	0.80%	1	7850	0.243	MT	
12	Shuttering							
	31	23.5	1.125					
			24.63	0.25				
	31			6.156	24.844			
	Side beam	2	3.125	0.15	0.9375			
		2	2.325	0.1	0.465			
	side slab	1	25.3	0.1	2.53			

  
 Engineer  
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 Chairman  
 Bhatpara Municipality


	Lintel	1	0.9	0.25	0.225				
		1	1.525	0.1	0.153				
		1	1.275	0.35	0.446				
		1	0.3	0.05	0.015				
						29.615	sqm		
	4W1	4	0.9	0.25	0.9				
		4	1.2	0.1	0.48				
		4	1.2	0.35	1.68				
	2	4	0.3	0.05	0.12				
	1W2	1	0.75	0.25	0.188				
		1	1.05	0.1	0.105				
		1	1.05	0.35	0.368				
	2	1	0.3	0.05	0.03				
	WO2	3	0.75	0.25	0.563				
	1	1	3.05	0.1	0.305				
		1	3.05	0.35	1.068				
	2	1	0.3	0.05	0.03				
	Lintel 125 Wall								
	D1	1	0.9	0.125	0.113				
		2	1.3	0.1	0.26				
	D2	2	0.75	0.125	0.188				
	2	2	1.15	0.1	0.46				
	D2	2	0.75	0.125	0.188				
		2	1.9	0.1	0.38				
						7.423			
						37.038	sqm		
13	Plaster (6:1)								
	Out side 15 mm th.								
			2.85	1.125	0.45				
		25.3			4.425	111.953	sqm		
	Inside 20 mm th.								
	2	2.7	3.125	2.75	32.038				
	2	2.875	2.625	2.75	30.25				
	2	2	1.65	2.75	20.075				
	2	2.075		2.75	11.413				
	Above lintel								
	1	0.75		0.65	0.488				
	Bath								
	2	0.9		2.75	4.95				
	WC								
	1	2.95		2.75	8.113				
	1	2.25		2.75	6.188				
	4	2.2		0.9	7.92				
	T. 125 wall								
	2	0.9		0.125	0.225				
						121.658			
	Open out side less								
	3	0.75		2.1	4.725				
					(-)	4.725			
						116.933	sqm		
	Ceiling Plaster				24.47				
	Less				1.14				
						23.33	Sqm		
14	Neat cement punning								
	Out side	Plinth							
		25.3	0.45			11.385	Sqm	11.385	

Engineer  
Bhatpara Municipality

Chairman  
Bhatpara Municipality



	Inside		2.7	3.125					
		2		5.825	0.1	1.165	Sqm		
			2.875	2.625					
		2		5.5	0.1	1.1	Sqm		
	Kitchen		2	1.65					
		2		3.65	0.45	3.285	Sqm		
		1		1.65	0.45	0.743	Sqm		
		2		2.075	0.1	0.415	Sqm		
	Varanda			1.775	0.1	0.178	Sqm		
	step WC	1		3	0.45	1.35	Sqm		
	Bath			3.5	2	7	Sqm		
				0.75	0.1	0.075	Sqm		
	In side punning						15.31	15.31	
	Total							26.695	Sqm
15	Art. Stone flooring								
	Floor area					25.37	sqm		
	Step	2	0.9	0.25		0.45			
	W1	4	0.9	0.1		0.36			
	W2	1	0.75	0.1		0.075			
	W3	3	0.75	0.1		0.225			
							26.48	Sqm	
16	Ms Clamp for door & window								
	D1+D2	4	6			24			
	W1+W2	5	2			10			
							34	nos.	
17	Wood work in Door & window frame								
	D1	2	5.1	10.2					
	D2	2	4.95	9.9					
	W1	4	3.6	14.4					
	W2	1	3.3	3.3					
				37.8	0.075	0.075	0.213	no	
18	Z batten shutter								
	D1	2	0.775	2.025		3.139			
	D2	2	0.625	2.025		2.531			
	W1	4	0.775	0.775		2.403			
	W2	1	0.775	0.625		0.484			
							8.557	sqm	
19	Iron Butt Hinges								
	D1+D2					12			
	W1	4	4			16			
	W2	1	4			4			
							32	nos.	
20	Iron socket bolt								
	Door			6					
	Window			5					
							11	nos.	
21	White wash								
	Inside+Ceiling Plaster- inside punning								
			116.933	23.33	15.31		124.953	sqm	
22	Colour wash								
	Out side Plaster- out side punning								
			111.953	11.385			100.568	sqm	

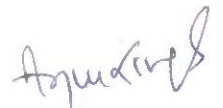
  
**Engineer**  
 Bhatpara Municipality

  
**Chairman**  
 Bhatpara Municipality

23	Priming on timber surface							
	2	2	0.9	2.1		7.56		
	2	2	0.75	2.1		6.3		
	4	2	0.9	0.9		6.48		
	1	2	0.75	0.9		1.35		
							21.69	sqm
24	Painting best quality on wooden surface							
	same sl.no. 23						21.69	sqm
25	MS ornamental grill....10Kg-16 Kg							
	W1	4	0.75	0.75	2.25			
	W2	1	0.75	0.6	0.45			
					2.7			
					@12Kg/sqm		32.4	Kg
26	Priming on Steel surface						2.7	sqm
27	Painting best quality on steel surface						2.7	sqm
	same sl.no. 24							
28	R.C.C. Shelf							
		1.75	0.5				0.875	sqm
29	Roof treatment with cow dang							
				32.18				
	Deduct	1.14	(varanda)	1.14				
	Cornice	25	0.125	3.125				
				27.915			27.915	sqm



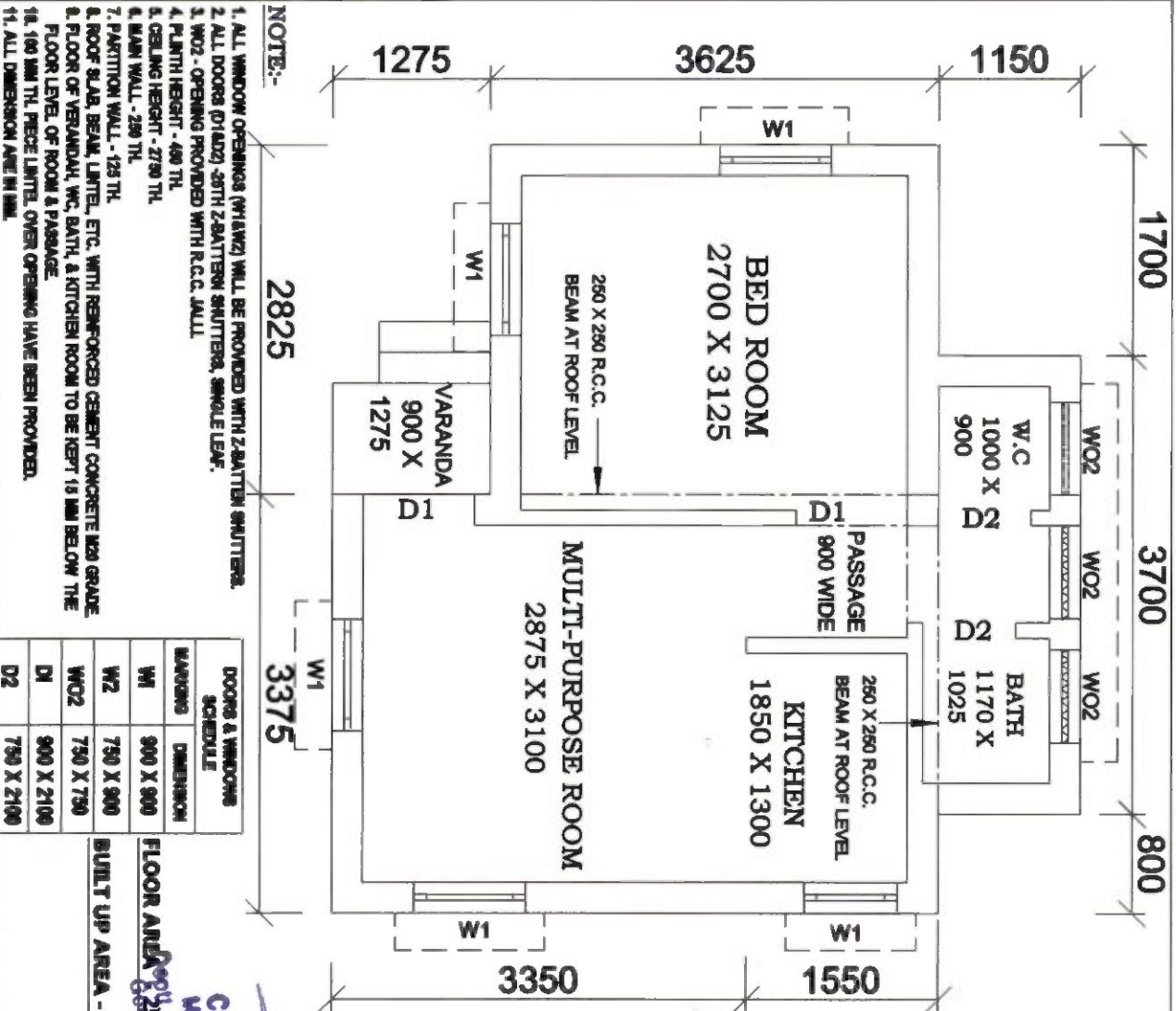
Engineer  
Bhatpara Municipality



Chairman  
Bhatpara Municipality

*Signature*

*Signature*



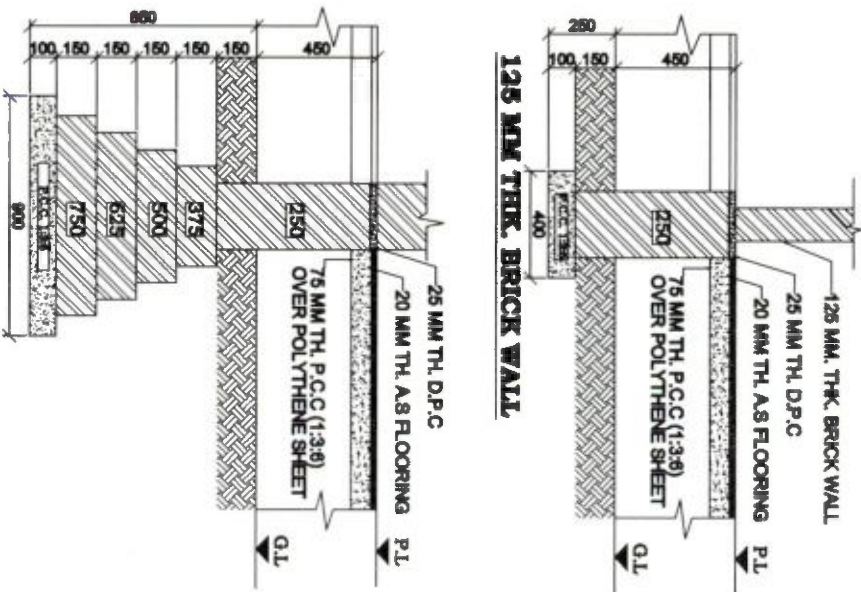
DOORS & WINDOWS SCHEDULE	
MARKING	DIMENSION
W1	900 X 900
W2	750 X 900
W02	750 X 750
D1	900 X 2100
D2	750 X 2100

**Chief Engineer**  
**Pradhan Mantri Awas Yojana**  
**M E Directorate of Municipal Affairs**  
**Bhatpara Municipality**  
**GOVT. OF WEST BENGAL**

**OFFICE OF THE CHIEF ENGINEER**  
**MUNICIPAL ENGINEERING DIRECTORATE**  
**GOVT. OF WEST BENGAL**

DWG. NO. SCALE :- 1:50 & 1:25

**FOUNDATION DETAILS**



**250 MM TH. BRICK WALL**

**125 MM TH. BRICK WALL**



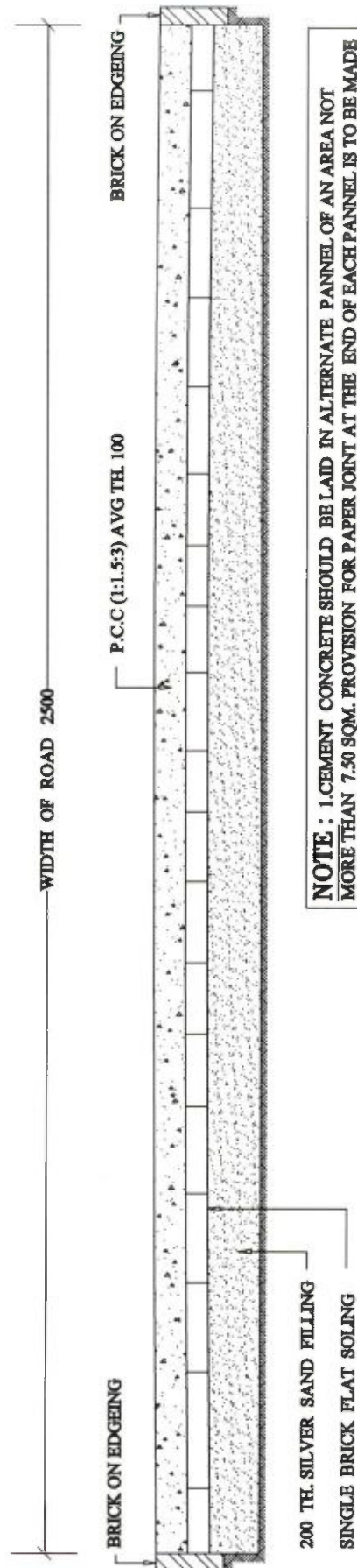
ESTIMATE OF CEMENT CONCRETE ROAD UNDER PMAY					
(UNIT LENGTH AND WIDTH 2.5m)					
Sl.No.	Description of item	Quantity	Unit	Rate	Amount
1	Surface Dressing of the ground in any kind of soil including removing vegetation inequalities not	2.5	m <sup>2</sup>	11	27.5
Pg.-1,1-1	exceeding 15 cm depth and disposal of the rubbish within a lead upto 75 m as directed.				
2	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom,	0.312	%m <sup>3</sup>	12047	37.59
Pg.-1,1-2	bailing out water as required complete. (a)				
3	Depth of excavation not exceeding 1,500 mm.				
3	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand.	2.5	m <sup>2</sup>	377	942.5
Pg.-11,1-1					
4	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with	0.2	m <sup>2</sup>	225	45
Pg.-26,1-12(f)	required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor)				
	(f) 25 mm to 30 mm shuttering without staging in foundation				
5	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes. a) Pakur Variety	0.25	m <sup>3</sup>	6111.98	1527.99
Pg.-11,1-5					
6	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)	0.312	%m <sup>3</sup>	7831	24.43
3(a)	(a) With earth obtained from excavation of				
	foundation.				
TOTAL					2605.01



Engineer  
Bhatpara Municipality



Chairman  
Bhatpara Municipality



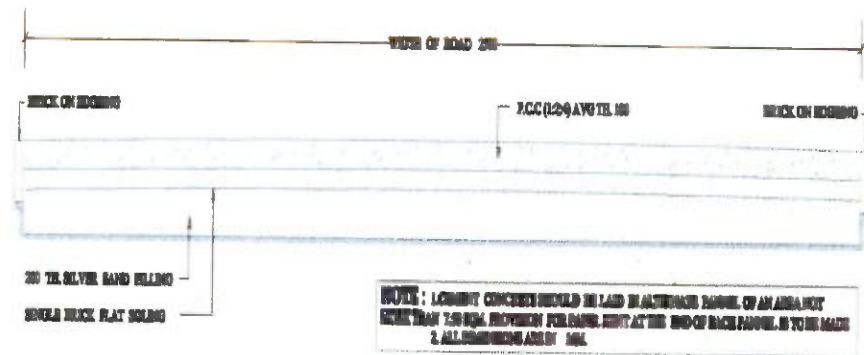
**NOTE :** 1. CEMENT CONCRETE SHOULD BE LAID IN ALTERNATE PANEL OF AN AREA NOT MORE THAN 7.50 SQM. PROVISION FOR PAPER JOINT AT THE END OF EACH PANNEL IS TO BE MADE  
2. ALL DIMENSIONS ARE IN MM.

### TYPICAL CROSS SECTION OF CEMENT CONCRETE ROAD

**PRADHAN MANTRI AWAS YOJANA**  
**HOUSING FOR ALL (URBAN)**

**OFFICE OF THE CHIEF ENGINEER**  
**MUNICIPAL ENGINEERING DIRECTORATE**  
**GOVT. OF WEST BENGAL**

DWG. NO.




**TYPICAL CROSS SECTION OF CEMENT CONCRETE ROAD**

**PRADHAN MANTRI AWAAS Yojana**  
**HOUSING FOR ALL (PMH)**

**OFFICE OF THE CHIEF ENGINEER**  
**MUNICIPAL ENGINEERING DEPARTMENT**  
**GOVT. OF WEST BENGAL**


FILE NO.

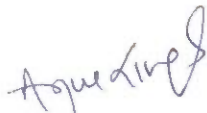
  
**Engineer**  
**Bhatpara Municipality**

  
**Chairman**  
**Bhatpara Municipality**




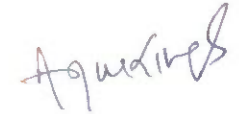
Abstract of Estimated Cost for Drain section of 400mmx400mm under Bhatpara Municipality.					
P.O.-Bhatpara Dist.- 24 Parganas (North)					
All rates are taken from P.W.D. Schedule 2014 Effective from 1st June 2014, and 7th Corrigenda effect from Length= 1.0 Mtr.					
Sl No	Description of Items	Quantity	Unit	Rate	Amount
1	Earth work in excavation of foundation trenches or drains. In all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, Spreading or stacking the spills within a lead of 75m. As directed. The item includes necessary trimming the sides of trenches, leveling dressing and ramming the bottom complete. a) Depth of excavation not exceeding 1500mm. Page-1, Item-2.	0.65	% Cum	12047	78.31
	1 1 1 0.65 0.65				
	Total- 0.65				
2	(A) Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity). Page-2, Item-4.	0.1	% Cum	68771	68.77
	1 1 1 0.1 0.1				
	Total- 0.1				
3	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand. Page-11, Item-1.	1	Sq.M	343	343
	1 1 1 1 1				
	Total- 1				
4	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, as per relevant IS codes. A) Pakur Variety. Page-11, Item-5.a a) Ground floor.	0.08	Cum.	6071.82	485.75
	1 1 1 0.075 0.08				
	Total- 0.08				
5	Brick work with 1st class bricks in cement mortar (4:1) (a) In foundation and plinth Page-29, Item No.-21.a	0.15	Cum.	5623	843.45
	1 1 1 0.25 0.4 0.1				
	1 1 1 0.25 0.2 0.05				
	Total- 0.15				
6	Earth work in filling in foundation trenches or plinth with good earth. In layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on basis of measurement of finished quantity of work). (a) With earth obtained from excavation of foundation. Page-1, Item No.-3.a	0.65	% Cum.	7831	50.90
	1 0.65 0.65				
	Total- 0.65				
7	125mm. Thick brick work with 1st class bricks in cement mortar (4:1) a) in ground floor. Page-31, Item No.-29.	0.2	Sq.M	728	145.60
	1 1 1 0.2 0.2				
	Total- 0.2				

  
Engineer  
Bhatpara Municipality

  
Chairman  
Bhatpara Municipality

8	Hire and Labour Charges for shuttering with hard wood for precast R.C. Slab curved, or stright and striking out the same including fitting, fixing the precast slab in position with necessary carriage and haulage, hosting etc. complete in all respect.					0.15	Sq.M	99	14.85				
	(only the area in contact with concrete to be measured.)												
	Page-27, Item No.-14												
	0.667	0.775	0.125	2	0.13								
	0.667	0.125	0.125	2	0.02								
			Total-	0.15									
9	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes.					0.01	Cum.	6811.63	68.12				
	(i) Pakur Variety												
	In ground floor, Page-14, Item No.-7												
	0.667	0.775	0.125	0.125	0.01								
				Total-	0.01								
10	Reinforcement for reinforced concrete work in the all sorts of structures including distribution bars, Stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and binding with 16 gauge black annealed wire at evrey intersestion complete as per drawing and direction.					0.0063	Qntl	6178.7	37.07				
	a)For works in foundation Basement and up to roof of ground floor/up to 4m												
	i)Tor steel/Mild steel Page-27, Item No.-15.a.1 & b.i.												
	Consideri ng @ 1.0%=78.5 kg/M3	1	0.008	0.785	0.0063								
11	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface]					1.58	Sq.M	171	270.18				
	(ii) with 1:4 cement mortar												
	Page-151, Item-2.ii.c & Page-152, Item-5.a												
	1	1	1.575		1.58								
				Total-	1.58								
12	Neat cement punning about 1.5mm thick in wall,dado,window sill,floor etc. Page-152, Item-8.					1.58	Sq.M	38	60.04				
	NOTE:Cement 0.152 cu.m per100 sq.m.												
	1	1	1.575		1.58								
				Total-	1.58								
Total								2466.03					
Add Contingency @ 3%								73.98					
Grand Total								2540.01					
Rate /Mtr Length								2540					

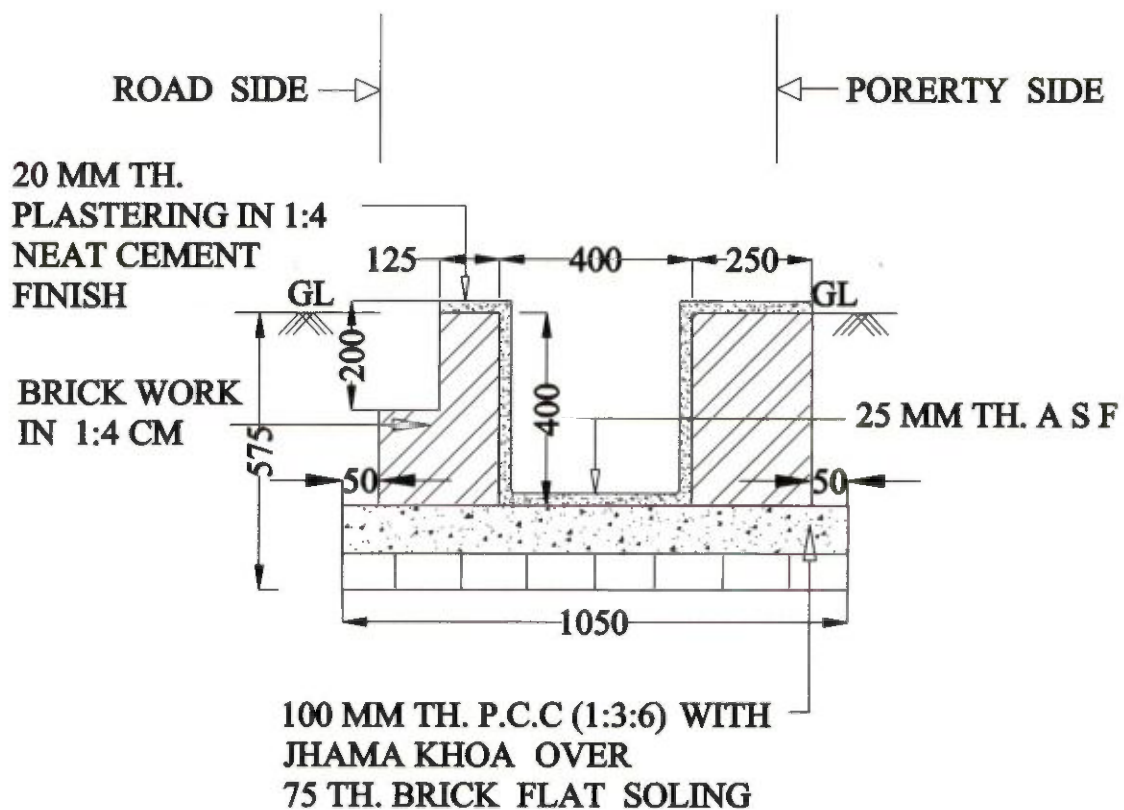
  
 Engineer  
 Bhatpara Municipality

  
 Chairman  
 Bhatpara Municipality

# BHATPARA MUNICIPALITY

PMAY (Housing for All): Bhatpara Municipality

## CROSS SECTION OF DRAIN ( 400 x 400 ) ( SCALE - 1:50 )



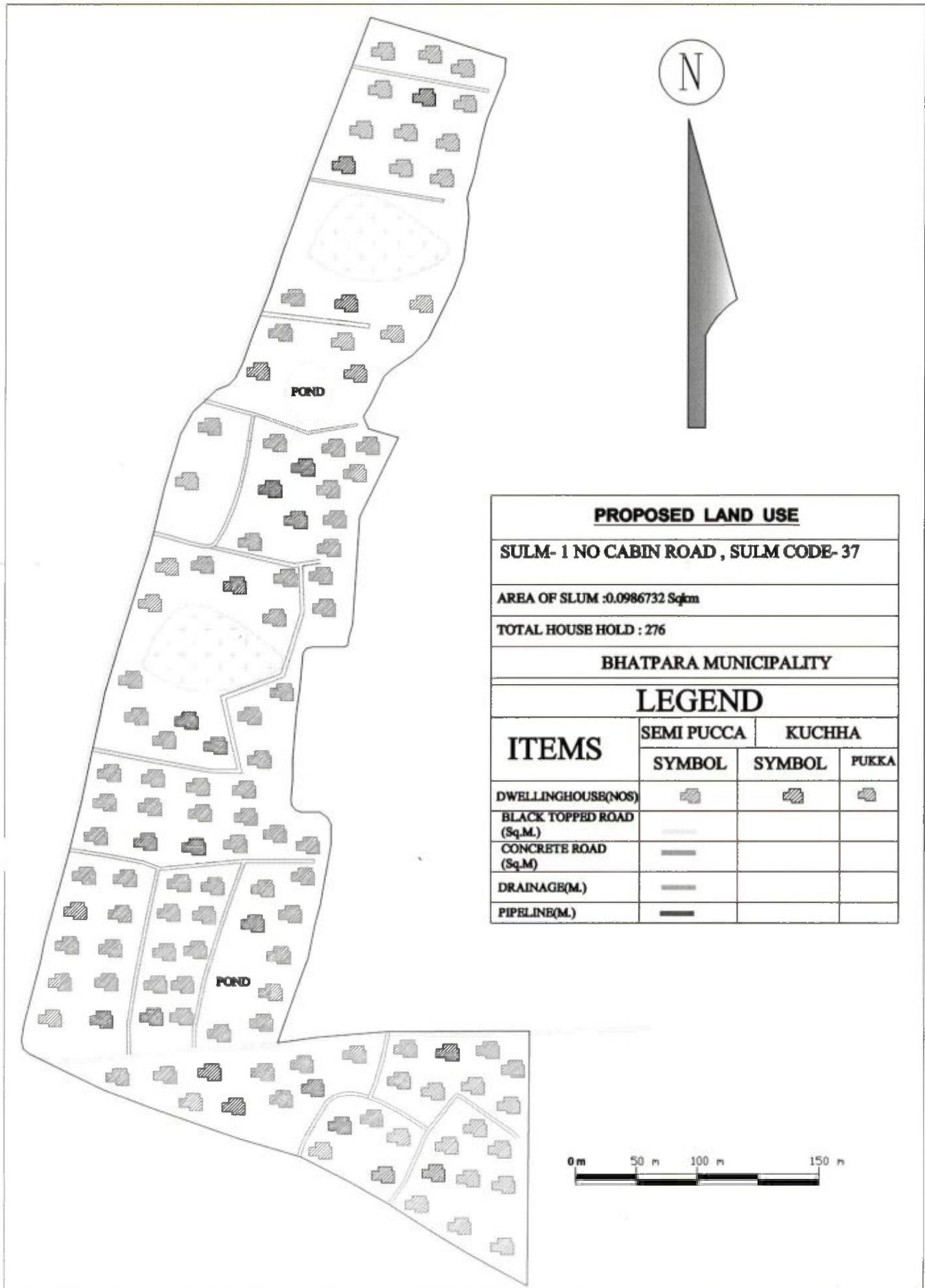
Engineer  
Bhatpara Municipality

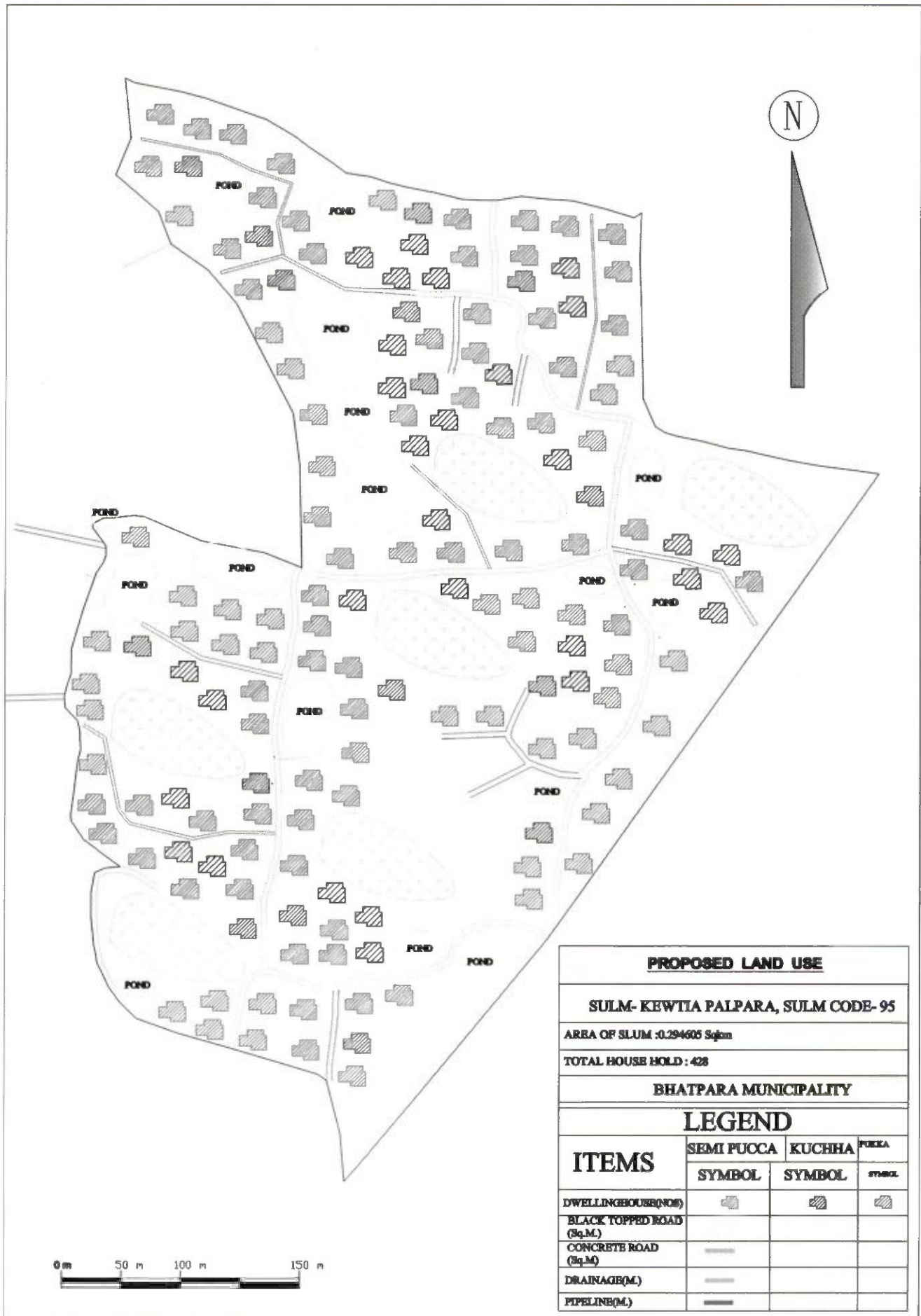
*Agarwal*  
Chairman  
Bhatpara Municipality

*Agarwal*  
Engineer  
Bhatpara Municipality

Chairman  
Bhatpara Municipality







**Engineer**  
 Bhatpara Municipality

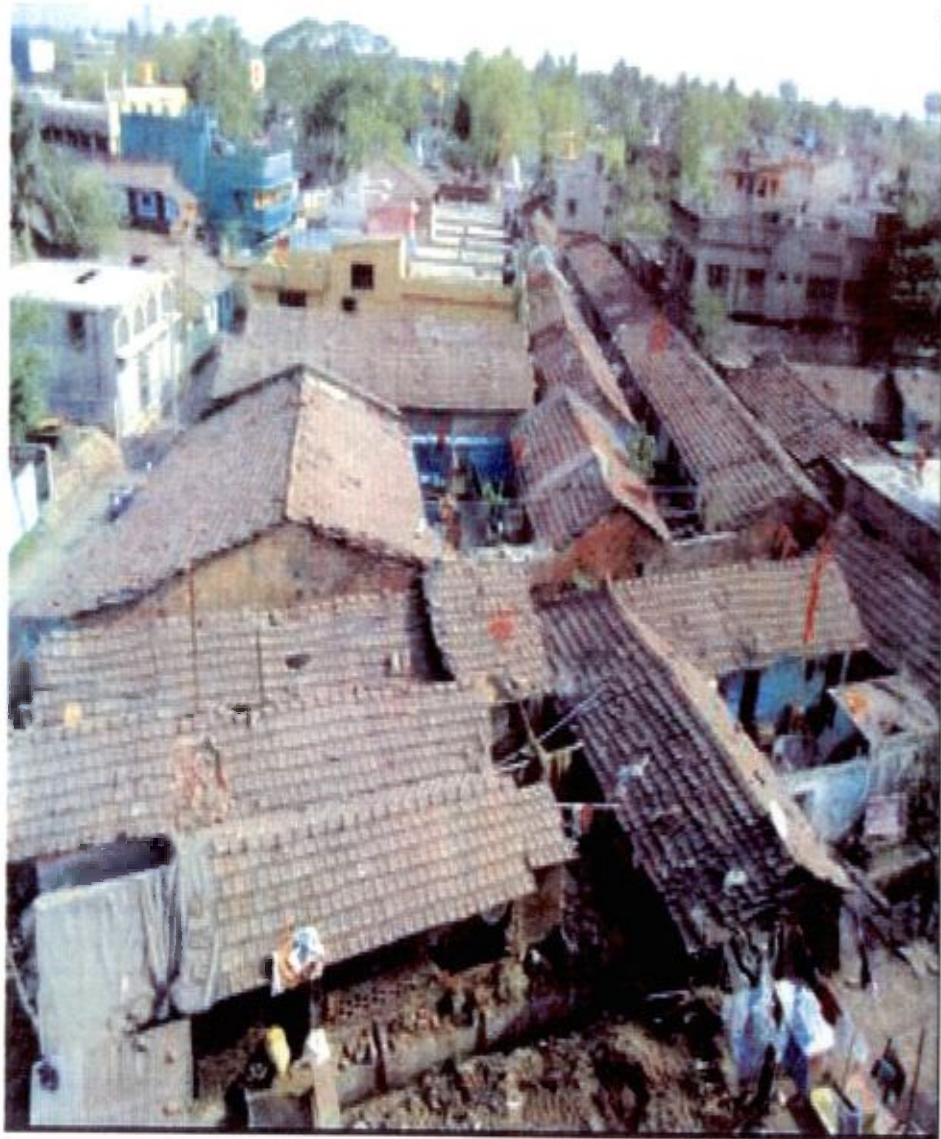
**Chairman**  
 Bhatpara Municipality



  
 Engineer  
 Bhatpara Municipality

  
 Chairman  
 Bhatpara Municipality



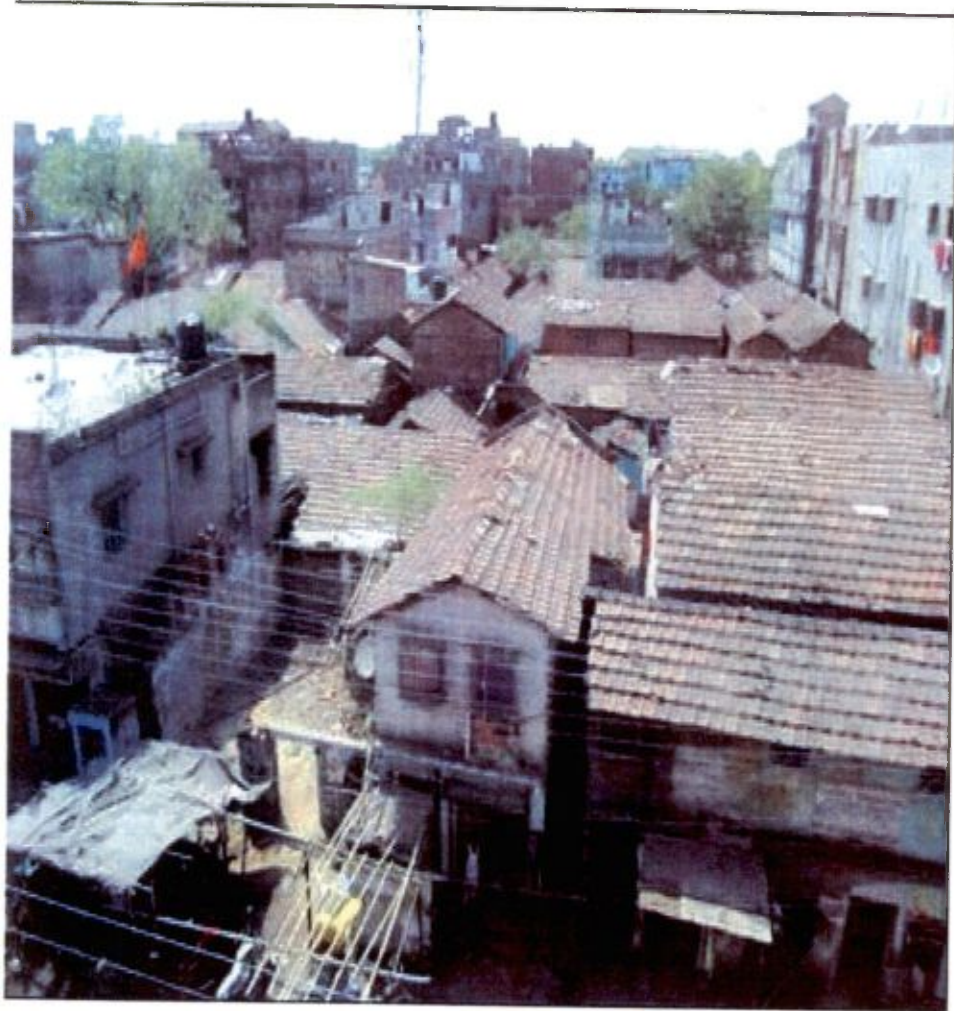


A handwritten signature in blue ink, appearing to be 'Rajendra'.

Engineer  
Bhatpara Municipality

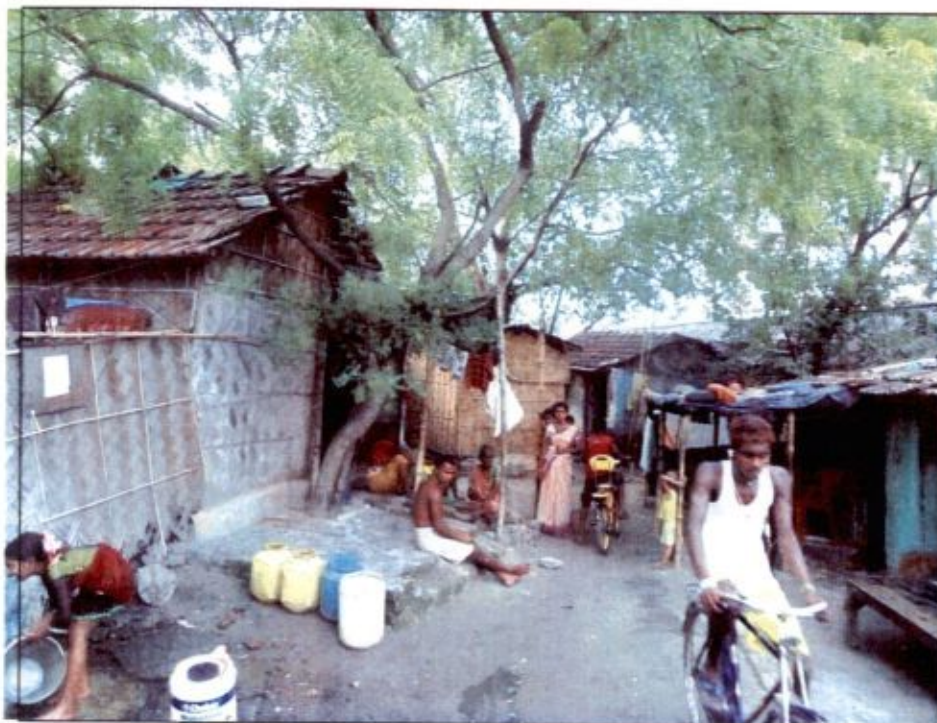
A handwritten signature in blue ink, appearing to be 'Arun Kumar'.

Chairman  
Bhatpara Municipality



Engineer  
Bhatpara Municipality

Chairman  
Bhatpara Municipality



Engineer  
Bhatpara Municipality

Chairman  
Bhatpara Municipality



**38. Resolution of BoC**

An extract copy of the minutes of the Ordinary Meeting of the Councillors of the Bhatpara Municipality held at the Municipal Office, Bhatpara on Thursday, the 26<sup>th</sup> November, 2015 at 11-00 A.M.

PRESENT

01.	Sri/Smt Arjun Singh.M.L.A.	Chairman
02.	" Somnath Talukdar	Vice-Chairman
03.	" Deba Prasad Sarkar	Member, C-in-C
04.	" Promod Kumar Singh	.do.
05.	" Md. Maqsood Alam	.do.
06.	" Manoj Guha	.do.
07.	" Biva Biswas	Councillor
08.	" Aditi Sarkar	.do.
09.	" Mohan Das	.do.
10.	" Arun Banerjee	.do.
11.	" Durba Bhattacharyya	.do.
12.	" Mili Dutta	.do.
13.	" Sampa Dey (Nath)	.do.
14.	" Sima Mondal	.do.
15.	" Jyoti Shaw	.do.
16.	" Md. Nasiruddin Khan	.do.
17.	" Kamala Agarwal	.do.
18.	" Sunil Niogi	.do.
19.	" Himanshu Sarkar (Bapi)	.do.
20.	" Khushbu Nisha	.do.
21.	" Gita Devi Yadav	.do.
22.	" Biswanath Ghosh	.do.
23.	" Prabir Baidya	.do.
24.	" Kalpana Lahiri	.do.
25.	" Pallabi Kundu (Das)	.do.
26.	" Sankari Dutta	.do.
27.	" Sibani Mondal	.do.
28.	" Biman Bose	.do.
29.	" Lalan Chowdhury	.do.
30.	" Satyen Roy	.do.
31.	" Sohan Prasad Chowdhury	.do.
32.	" Sourav Singh	.do.

At the very outset, Chairman informed the members at the meeting with profound sorrow that the Anil Kumar Singh, Councillor, Ward No. 18 of Bhatpara Municipality died on Monday, the 16<sup>th</sup> November, 2015.

The House observed one-minute silence as a mark of respect to the memory of the departed soul and expressed its heart-felt consolation to his bereaved family members.

BUSINESS:

\*\*\*\*\*  
\*\*\*\*\*

*Agreed*  
Chairman  
Bhatpara Municipality

2

WITH THE UNANIMOUS CONSENT OF THE COUNCILLORS PRESENT IN THE MEETING  
FOUR EXTRA AGENDA WERE TAKEN UP FOR DISCUSSION AND DECISION

\*\*\*\*\*  
\*\*\*\*\*

EX-IV: RE: Acceptance of DPR for the year 2015-2016 under PMAY/Housing For All:

The Chairman placed the above-mentioned DPR duly prepared by the Engineer, Bhatpara Municipality for 289 nos. of Dwelling Unit including infrastructure which under PMAY/Housing For All may be accepted for further course of action.

After detailed discussion, the members unanimously accepted the same and the Chairman was authorized to take follow up action in the matter.

\*\*\*\*\*  
\*\*\*\*\*

The Meeting was then ended with vote of thanks to the Chair and from the Chair.

Municipal Office,  
Bhatpara

Sd/-Sri Arjun Singh  
Chairman,  
Bhatpara Municipality

Certified to be a true copy.

  
Chairman,  
Bhatpara Municipality.

(7) BOC resolution (Ordinary) on 26.11.2015

  
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39. HFAPoA OF Bhatpara

**HOUSING FOR ALL-2022**

**PLAN OF ACTION  
(HFAPOA)  
BHATPARA**

**Under**

**PRADHAN MANTRI AWAS YOJANA (PMAY): URBAN**

**Bhatpara Municipality**

Submitted by

&

State Urban Development Agency

West Bengal

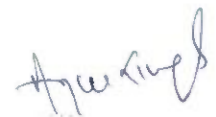


## Introductory Note by Chairman



Kolkata Metropolitan Area (KMA) is one of the most populated urban agglomeration in India and has a total population of 14.11 million (2011 Census) distributed over an area of 1851 sq km accounting for 15% of the total State's total population and 49% of the State's urban population.

Bhatpara is one of the northern most towns of North 24 Parganas District of West Bengal and Kolkata Metropolitan Area (KMA). The municipality falls under Jagatdal PS jurisdiction of Barrackpore subdivision Bhatpara is one of the oldest municipality in KMA and houses several erstwhile important industries like jute mills and paper mills. Parts of some adjoining mouzas were added to the municipal area in the last in 1995 increasing its size. Two main transport routes in connection to Bhatpara are the Barrackpore-Kalyani expressway and the Sealdah line with the Knakinara, Shyamnagar and Jagatdal station within the municipal boundaries.



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### Abbreviation

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

  
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### Working Definitions

Affordable Housing Project:	Housing Projects where 35 % of the houses are constructed for EWS category
Beneficiary	A 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
Carpet Area	Area enclosed within the walls, actual area to lay carpet. This area does not include the thickness of the inner walls.
Central Nodal Agencies	Nodal Agencies identified by Ministry for the purposes of implementation of Credit Linked subsidy component of the mission
Economically Weaker Section(EWS)	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
EWS House	An all-weather single unit or a unit in a multi storeyed super structure having carpet area of upto 30 sq.m. with adequate basic civic services and infrastructure services like toilet , water, electricity etc. States can determine the area of EWS as per their local needs with information to Ministry
"Floor Area Ratio" (FAR)/FSI	The quotient obtained by dividing the total covered area (plinth area) on all the floors by the area of the plot:
	Total covered area on all the floors x 100

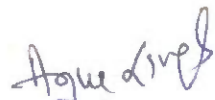
  
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	FAR = -----
	Plot area
	If States/Cities have some variations in this definition, State/City definitions will be accepted under the mission
Implementing Agencies	Implementing agencies are the agencies such as Urban Local Bodies, Development Authorities, and Housing Boards etc. which are selected by State Government / SLSMC for implementing Housing for All Mission.
Low Income Group (LIG)	LIG households are defined as households having an annual income between Rs.3, 00,000 (Rupees Three Lakhs One) up to Rs.6, 00,000 (Rupees Six Lakhs). States/UTs shall have the flexibility to redefine the annual income criteria as per local conditions in consultation with the Centre.
Primary Lending Institutions (PLI)	Scheduled Commercial Banks, Housing Finance Companies, Regional Rural Banks (RRBs), State Cooperative Banks, Urban Cooperative Banks or any other institutions as may be identified by the Ministry
Slum	A compact area of at least 300 population or about 60-70 households of poorly built congested tenements, in unhygienic environment usually with inadequate infrastructure and lacking in proper sanitary and drinking water facilities.
State Land Nodal Agencies (SLNAs)	Nodal Agency designated by the State Governments for implementing the Mission
Transfer of Development Rights (TDR)	TDR means making available certain amount of additional built up area in lieu of the area relinquished or surrendered by the owner of the land, so that he can use extra built up area himself in some other land.

  
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## 1. Situation assessment for HFAPoA

### 1.1 Background

Kolkata Metropolitan Area (KMA) is one of the most populated urban agglomeration in India and has a total population of 14.11 million (2011 Census) distributed over an area of 1851 sq km accounting for 15% of the total State's total population and 49% of the State's urban population.

Bhatpara is one of the northern most towns of North 24 Parganas District of West Bengal and Kolkata Metropolitan Area (KMA). The municipality falls under Jagatdal PS jurisdiction of Barrackpore subdivision

Bhatpara is one of the oldest municipality in KMA and houses several erstwhile important industries like jute mills and paper mills. Parts of some adjoining mouzas were added to the municipal area in the last in 1995 increasing its size. Two main transport routes in connection to Bhatpara are the Barrackpore-Kalyani expressway and the Sealdah line with the Knakinara, Shyamnagar and Jagatdal station within the municipal boundaries.

Census records a population of 3.84 lakhs as per Census 2011 and a population density of 14362 persons per sq.km. The city has witnessed negative population growth rate in the last decade, mostly due to the sick and closed industries and lack of other job opportunities. The western part of the city is the older and denser and houses most of the old industries and the eastern part mostly comprises of the newly added mouzas with growth of comparatively less density.

The municipality was formed after it was separated from the Naihati Municipality in 1899. Currently the municipality comprises of 35 wards spread over an area of 26.72 sq.km. the municipality is headed by Chairman Mr. Arjun Singh along with the councillors. Recently with the completion of the water supply scheme under JNNURM and the Sewerage Scheme of NGRBA underway, Bhatpara is witnessing considerable improvement in its physical infrastructure. It has created 4577 houses under BSUP and successfully runs the SJSRY program in all the wards.

### 1.2 Approach and Methodology

*(Process Mapping, Field work documentation, workshop details etc)*

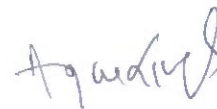
Based on above assessment, suitable redevelopment/rehabilitation models for each category of slum were formulated, which were

**In-situ slum up-gradation:** Emphasis shall be laid on housing up gradation and facilitating provision of basic services: i.e., water and sanitation, drainage, roads, street lighting, footpaths, and community facilities. This model involves re- adjustment of existing dwelling units to ensure optimum use of land and releasing surplus land for common facilities as part of the densification process of the slums.

**In-situ slum redevelopment:** This model involves relocating of few slum dwellers in the same location but in different housing units. It will involve the demolition of slum dwellers homes as required.

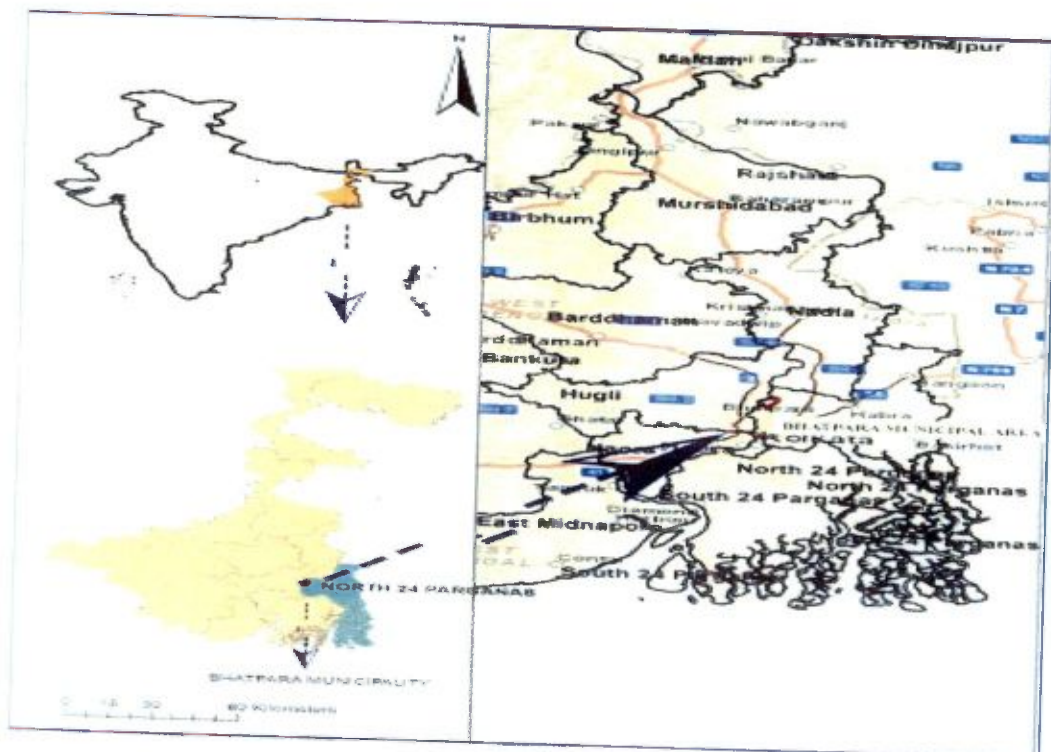


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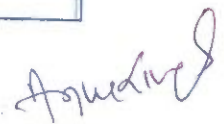


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### 1.2.1 Stakeholders Consultative Workshop / Meetings



  
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### 1.3. City Profile and Overview

#### City Overview

Constituted in 1899 with the de-merger of part of municipal area (consisting of Bhatpara, Jagatdal, Authpur and Shyamnagar, together with the village Kankinara) falling under erstwhile Naihati Municipality, Bhatpara Municipality is one of the oldest municipalities in West Bengal. It is one of the northern most towns of North 24 Parganas District of West Bengal and Kolkata Metropolitan Area (KMA). The municipality falls under Jagatdal PS jurisdiction of Barrackpore subdivision.

The name 'Bhatpara' originates from the ancient name "**Bhatta-Palli**", where "**Bhatta**" denotes the section of Brahmin Sanskrit pandits and "**Palli**" denotes locality or village.

Owing to strategic location of the town with bank of river Hooghly bordering the town along the western side of the town, Bhatpara Municipality is home to number of water intensive industries (mainly Jute milling units) all located along the river bank. These jute mills drew in large pool of labour forces mainly from the Bihar & Uttar Pradesh who gradually settled at Coolie lines just nearest to the mills or in the vicinity of the mills. Over the years, with the economic downturn coupled with stiff overseas competition some of Jute Mills discontinued their operations in Bhatpara leading to gradual transformation from an industrial hub to a city with mere existence of handful of jute mills.

#### History and Evolution of Bhatpara

Since the incorporation of the municipality in 1899 slicing out the southern part of Naihati Municipality admeasuring an area of 11.65 Square Kms. Bhatpara Municipality is observed to have constantly evolved and grown in area with the inclusion of part or full adjacent village mouzas afterwards. Following are the additions to the jurisdiction of the municipality in a chronological order:

Inclusion of whole village Sundia, a portion of Sthirpara Mouza and Chalkgurdah Mouza on 8<sup>th</sup> July 1924 leading to rise in municipal area to 14.24 Sq. km with effect from 1<sup>st</sup> April 1925

Inclusion of four GPs including Madral-Panpur, Narayanpur, Rahuta II & I etc. in the year 1995 with total area further increased to 32 sq. km



Figure 13 Location of Bhatpara Municipality in KMA

The municipal town is characterized with rich historical footprints with the genesis of erstwhile village moujas like Bhatpara, Kankinara, Jagatdal Authpur and Shyamnagar can be traced back to the Mohammedans period. In the 17<sup>th</sup> & 18<sup>th</sup> century Jagatdal was an important commercial place where German capitalists had their Kutirs, known as Bankibazar. Bhatpara area was once abode of Sanakrit and Nayay Shastra learning.

  
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### Location of Bhatpara

Bhatpara Municipality is located at the northern part of Kolkata Metropolitan Area with its i) latitude position being 22°53'00" latitude North, 22°48'34" latitude South and ii) longitude position at 88°26'00" longitude East and 88°22'08" longitude West. The Town has an average elevation of 12 metres (39 feet) from west to east direction.

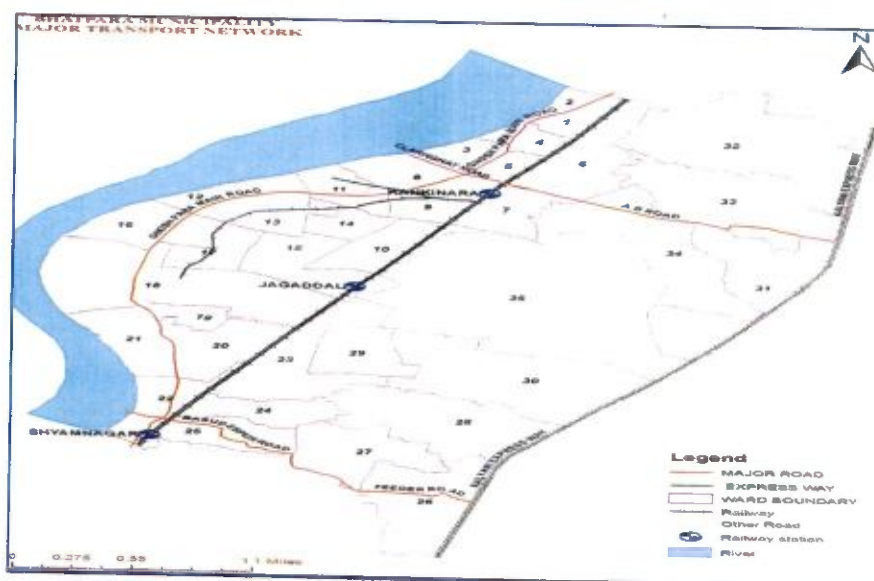
The municipality is bordered by the river Hooghly along the western side of the town, while the Barrackpore Kalyani Expressway defines the eastern boundary of the municipality. The municipality is surrounded by rural areas in the South and Eastern side with villages namely Kawgachi Gram panchayat located in the South and Panpur & Abhirampur Gram panchayat towards East. In terms of proximity to other major towns, the municipality is bounded by Naihati Municipality towards North and Garulia Municipality to the South. The city is connected with the railway line from Sealdah (Kolkata) and railway line cuts across the length of the city into eastern and western parts.

### Physical Linkages

Bhatpara is located 37 Km North of Kolkata-the state capital and it is linked by both modes of transportation viz. Road and Rail, state highway and a number of district Roads have linked the town with Kolkata,

other important towns and places of North 24 Parganas and other district HQs mainly through Barrackpur Trunk Road and Barrackpore Kalyani Expressway. Other major roads including Ghosh Para main road, A.B Road, Basudevpur Road, Clarkghat

Road etc. serve different parts of the town in connecting them with state highway and Barrackpur Trunk Road.

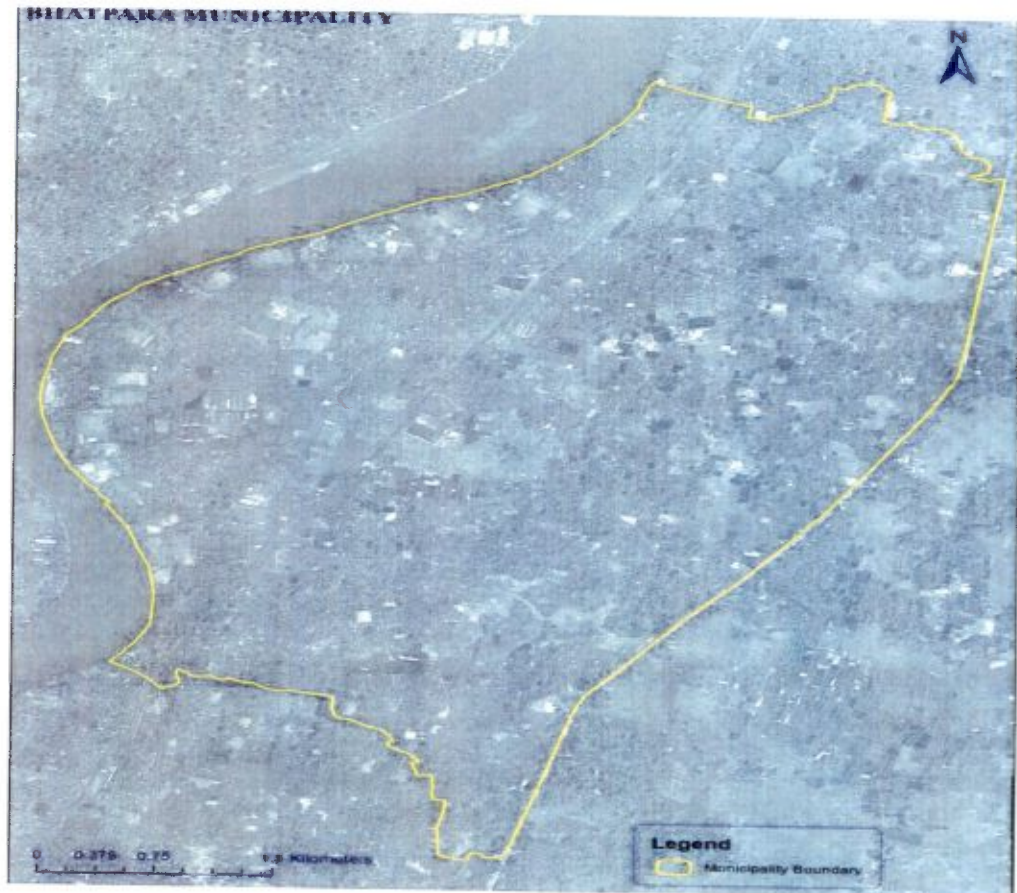


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The town is well connected with remaining parts of the state by railway. There are 3 railway stations Kankinara, Shyamnagar, and Jagatdal within the municipality area and they connect the town through Sealdah (Kolkata) main line supporting movement of the daily passengers using a suburban railway services for coming down at Kolkata for work. It also caters for the daily movement of the majority of goods to Kolkata and other areas.

In addition, number of regular ferry services is operating on Hooghly River and the services connect the town to Hoogly-Chinsurah, Chandernagar, and Bhadreswar - towns on other bank of Hooghly river. The images below present transportation network of Bhatpara Municipality and entire Bhatpara Municipal area in Satellite Image



Map 4 Bhatpara Municipality on satellite image

  
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## Physical Characteristics of the City

### Soil and Topography

Bhatpara may be divided into two groups based on the soil types- Entisols and Alfisols. The Entisols are present in the western part of the area and the other part is represented by Alfisols. These soils are typically Deltaic Alluvial soil rich in calcium. Bhatpara and neighbouring areas are represented predominately by clayey soils. The soil contains 30%-50% clay and 20% sand and become sticky when wet and hard when dry.

Topographical area of the town may be divided into three parts: i). The Levee, ii.) The Marshes and iii.) the Plains. The land in the municipal area is generally flat. The slope is towards intermediate field from the riverbanks.

### Climate

Bhatpara has hot and humid summer and dry winter, typical of West Bengal. The rainy season is typically from mid-July to mid- or late October. Strong monsoon winds blowing from the South Bay of Bengal over this area generates ample rainfall (average rainfall is 1350mm). Average temperature during summer can go as high as 38 degree Celsius and in winter the mercury plunges to drop down to 10 degree Celsius. Humidity, in the time of summer, is often above 90% and is the primary reason of discomfort.

### Social and Demographic profile

Social and demographic profile of Bhatpara Municipality builds upon analysis of recent and past Census data of the district of North 24 Parganas and Bhatpara Municipality. Census records show that district of North 24 Parganas has recorded a high growth of urban population recording around 18.2% during 2001-2011 period. This has led the district to become 2<sup>nd</sup> largest district of India and largest in state in terms of population size in 2011. It has rightly been represented by district wise number of municipalities as North 24 Parganas is highest among all districts with 27 municipalities in the district spread across five subdivisions. Bhatpara Municipality is one of the key municipalities in the North 24 Parganas district. .

Population of Bhatpara constitutes only 4% of total district population and the total urban population of North 24 Parganas it comes around 57% of district's population. Bhatpara Municipality comes among the top three municipalities[1] of the district ranked in terms of population size with its population recording around 6.8% of the urban population of the North 24 Parganas. Demographic overview of the municipality over the decades has been presented in the table below.

**Table 14 : City at a Glance**

Sl. no	Indicator	2001	2011	2015
<b>1</b>	<b>Area (in SqKm)</b>	27.02	27.02	27.02
<b>1.1</b>	<b>Planning Area (Sq. Km )</b>	27.02	27.02	27.02
<b>1.2</b>	<b>Municipal Area (Sq. Km)</b>	27.02	27.02	27.02
<b>1.3</b>	<b>Area of Slums (Sq. Km)</b>		16.14	16.14
<b>2</b>	<b>Number of Municipal Wards</b>	35	35	35
<b>3</b>	<b>Population and Households</b>			
<b>3.1</b>	<b>Total Population (no's in millions)</b>	4.42	3.83	4.29
<b>3.2</b>	<b>Number of Households</b>	80005	87076	97481
<b>3.3</b>	<b>Density of Population</b>	16556	14362	15097
<b>3.4</b>	<b>Slum households as percentage</b>	18.084	22.69	22.675
<b>3.5</b>	<b>Current (2015) Population (Year of</b>	442385	383762	429892
<b>3.6</b>	<b>Current Number (2015) of</b>	80005	87076	97481
<b>3.7</b>	<b>Slum population as percentage of</b>	71	77	77

  
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#### 1.4. Housing and Physical Infrastructure profile

*((Existing Housing stock, land availability, land use, construction cost, Housing typologies, information on current city housing projects etc*

*Spatial coverage and adequacy of Water supply, solid waste management, Sewerage, storm water drainage etc.,)*

In contrast to rate of increase in number of households which recorded around 9% growth during 2001-2011 period; rate of growth of number of houses was around 4.5% which is, in absolute terms, from around 79,108 houses in 2001 it increased to 82,649 in 2011. This is unlike the growth trend observed in North 24 Parganas district where urban household growth was recorded at 31.08% during 2001-2011 period.

As per census records, in Bhatpara municipality, overall housing condition may be referred as "good" as percentage of good houses has been dominant with number of good houses constituting around 55% of total houses in 2011 followed by number of "Livable" houses which recorded at 41% of total. Over this period, notable progress is observed in number of "good" houses recording around 30% growth and number of livable houses witnessing a downfall of around 18%. This may be attributed to the successful implementation of the BSUP scheme started since 2007-08 leading to creation of houses in 37 slums spread over 20 wards of the city.

Over the last two census years, there has been an increase in number of house-owners with their share to total houses accounting to around 60% of total houses of the city, while majority of the remaining households (37%) is constituted by rented households. While analyzing houses on the basis of number of dwelling rooms, it is observed that one-room and two-room houses constitute around 81% of total houses of the city and for rental households, around 80% of the households reside in a single room houses.

#### Physical Infrastructure profile

##### Water Supply

From the very inception of Bhatpara as municipality, the main source for the supply of drinking water was from river Hooghly. Water was treated at vintage water treatment plants run by jute mills and distributed through pipeline network covering a small part of the town. Over the years, municipality has taken up number of water supply augmentation, including i) laying piped water supply distribution network by drawing funds from its own budget and other sources like CUDP III, 10<sup>th</sup> Finance commission etc., ii) rolling out 24x7 water supply scheme, a Rs. 250 crores project (2010-2014) implemented by KMDA under JNNURM, involving construction of a new 23 MGD Water Treatment Plant at Jagatdal, 18 overhead reservoirs and further spreading out of surface water pipeline network in other parts.

Currently, the town has a total of 330 km of surface water pipeline network catering to 96% of total population of the city and providing direct water connections to 31,000 households, of which 110 km runs within wards 1-22 and the remaining in the other 13 wards. Post the implementation of JNNURM project, daily piped water supply of the town has reached at 70 MLD.

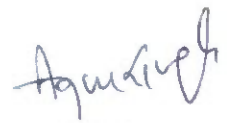
Despite the existence of surface water supply network and coverage, municipality has to resort to ground water to meet the supply at some parts of the town. As per ULB records, 10% of the entire water supply is dependent on groundwater through deep tube wells and hand pumps, mainly in the ward nos. 06, 07, 25, 32 and 35.

The table below presents a service level standard of Bhatpara in terms of coverage of the city with respect to water supply.

[1] Other densely populated Municipalities are South Dum Dum, Rajarhat Gopalpur with share of their population recording more than 7% of total urban population.



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Table 15: Water Supply Benchmarks for Bhatpara Municipality

	Indicator	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Coverage of Water Supply Connection	100%	100%	82%	92%
2	Per Capita available of Water at consumer end	135 Lpcd	135 Lpcd	105 Lpcd	135 Lpcd
3	Extent of metering of Water Connections	100%	100%	0%	0%
4	Extent of Non-Revenue Water	20%	20%	20%	20%
5	Continuity of Water Supply	24/7 Hrs/Day	24/7 Hrs/Day	10 Hrs./Day	18 Hrs/Day
6	Efficiency in redressal of customer complaints	80%	80%	82%	90%
7	Quality of Water supplied	100%	100%	80%	95%
8	Cost recovery in water supply service	100%	100%	22%	35%
9	Efficiency in collection of water supply related charges	90%	90%	60%	70%

Mukterpur canal starting from Tinshukia to river Hoogli (5 km in length) is the main channel for waste water outlet of the town. Other two main drains, namely, Rishi Bankimkhal and Shyam Nagar Khal, run through the northern and southern boundary area feeding canals of Mukterpur and Barti Beel respectively. These channels now have been silted. The banks of the channel are fairly high with respect to the intermediate spread of land. Bhatpara has 107 km of pucca drains and 125kms of katcha drains.

Due to lack of maintenance and heavy siltation these channels are not adequate for drainage in current form. As a result, a large number of low lying pockets, which remains water logged in the rainy seasons, have been created. The land in the municipal area is generally flat and the slope is towards intermediate field from the riverbanks.

Table 16: Storm water Drainage Benchmarks for Bhatpara Municipality

	Indicator	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Coverage of Storm Water Drainage Network	100%	100%	80%	85%

### Sewerage & Sanitation

The sewerage network has only 15% coverage in the entire city. The network has primarily evolved in three stages, which are:

- **Stage I (1931-1973):** It started with laying of initial drainage network in 1931, which was further extended by the PHE in 1973. This led to laying of total 20.42 km of drainage network at this stage. Also a STP of capacity 10 MLD was constructed which is presently functional.
- **Stage II (1987-1993):** Bhatpara was brought under the purview of Ganga Action Plan (GAP) in the period 1987-1993, during which the old drains and outfall points were intercepted and 5 lifting stations and 2 pumping stations were constructed for better collection and transmission. A total of 15 km of pipeline was constructed during this phase in wards 1-22.

  
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- **Stage III (2013- 2017 Projected):** Further improvement of the sewerage system is being implemented under NGRBA since 2013. Scheduled to be completed by 2017, this project is focused on eastern wards of the municipality, which has no sewerage system currently. As part of this Rs. 332 crores project, key envisaged outcomes include:
  - Laying of 125 km of Sewerage Pipeline
  - Setting up of 23 lifting stations
  - Setting up of 3 Pumping Stations
  - Setting up of 3 STPs at a) Jagatdal ward No 15, b) Dipali Math ward No 23 and c) Rabindra Pally ward No 6 with a total capacity of 61 MLD

As on June, 2014 the project is running on time and 27% of the project work is already completed.

In addition to sewerage and sanitation works carried out in above three stages, municipality had underwent annual repair and maintenance work for the existing pipelines leveraging own fund of the municipality based on as-is-where-is basis.

The table below presents a service level standard of Bhatpara in terms of coverage of the city with respect to sanitation and sewerage. Table clearly shows though toilet coverage of the town is reasonably good, but lot of interventions are required to improve sanitation and sewerage facilities as there is no household level drainage facility leading to unhygienic environment in slums.

**Table 17: Sewerage and Sanitation Benchmarks for Bhatpara Municipality**


	Indicator	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Coverage of Toilets	100%	100%	85%	90%
2	Coverage of wastewater network services	100%	100%	25%	45%
3	Collection Efficiency of Waste Water Networks	100%	100%	60%	65%
4	Adequacy of Waste water treatment capacity	100%	100%	45%	55%
5	Extent of Reuse and recycling of treated	20%	20%	3%	15%
6	Quality of Waste Water Treatment	100%	100%	94%	95%
7	Efficiency in redressal of customer complaints	80%	80%	60%	75%
8	Extent of cost recovery in Waste Water	100%	100%	4%	7%
9	Efficiency in collection of sewerage charges	90%	90%	0%	0%

Source: MoUD, GoI and Bhatpara Municipality 2014

### Solid Waste Management

Bhatpara Municipality generates approximately 6050 MT/month of solid waste. Presently there is no proper solid waste management in the municipality and it is dumped in open landfill sites. There are two spots which currently the municipality uses as dumping grounds. They are: i) Madral low cost treatment plant (in use for last 10 years) and ii) Fingapara Ward 29-35 border (in use for last 4 years). The waste is collected mostly by Handcarts and then dumped by tractors and trailers. Recently, a SWM pilot project (Rs. 28 Crore approx.) is being implemented under NGRBA.

The table below presents a service level standard of Bhatpara in terms of coverage of the city with respect to Solid Waste Management. In terms of household level coverage solid waste management and segregation of municipal solid waste, the municipality is not at a good stage.

  
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Table 18: SWM Benchmarks for Bhatpara Municipality

	Indicators	Central Level Benchmarks	State Level Benchmarks	Present Status 2013-14	Targeted status during 2014-15
1	Household level coverage of solid waste management services	100%	100%	25%	45%
2	Efficiency of collection of municipal solid waste	100%	100%	90%	92%
3	Extent of segregation of municipal solid waste	100%	100%	15%	20%
4	Extent of municipal solid waste recovered	80%	80%	80%	85%
5	Extent of scientific disposal of municipal solid waste	100%	100%	15%	40%
6	Extent of cost recovery in solid waste management services	100%	100%	10%	15%
7	Efficiency in collection of solid waste management charges	90%	90%	10%	11%
8	Efficiency in redressal of customer complaints	80%	80%	85%	90%

Source: MoUD, Gol and Bhatpara Municipality 2014

### Road Coverage and Condition

As per the Land Use map of Bhatpara, only 2.7% of the entire municipal area is dedicated to roads. This indicates a very high density of settlement and less developed vehicular network within the city. The settlement and concentration of the activities in this town was originally centered on the rail lines. B.K. Expressway and Ghoshpara Main Road both run along the length of Bhatpara Municipality Connecting Kolkata, Barrackpore, Barasat and Kalyani. A number of state Highways and District Roads link with the municipality, district head quarter and Kolkata, the state capital. Road network in Bhatpara has grown to a total of 1089.67 Km. While only 36% of roads are black topped and concrete, remaining 64% of the road network is still katcha. Most of the existing arterial roads are narrow with two lane carriageways and needs to be widened to cater for the increasing vehicular traffic. Due to lack of proper maintenance, the surface conditions of the roads are not good which in turn reduces the speed of moving traffic.

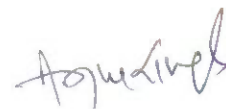
### Organization and Governance Structure of Bhatpara Municipality

The organization and governance structure of the municipality was discussed with the officials of the municipality. As per municipal mandates, councillors share the responsibility as members of the Board of Council (BoC) and BoC holds supreme authority in all the matters related to municipality. The Chairman is the prime sanctioning authority and member of BOC. In absence of Chairman, Vice-Chairman is the decision making authority. Bhatpara has different departments, each catering to variety of municipal services and all the departmental heads report to executive officer of the municipality.

In order to implement SJSRY, Bhatpara Municipality has an Urban Poverty Eradication (UPE) cell under the Town Planning department, which was formed in 1997, with the Chairman of the Municipality acting as its Chairman, the Executive Officer of the Municipality as its Convener and officers from PWD, Health, and other departments along with members of C-I-C constituting the rest of the cell. The delegation of work is as per the framework proposed under SJSRY. The main responsibility of the cell is to ensure coordination with Community Development Societies (CDS) currently operating in Municipality. In Bhatpara, 6 CDS are operational with 62 NHCs and 645 NHGs which is managed by 552 RCVs. The organogram depicts the hierarchical structure of the municipality:



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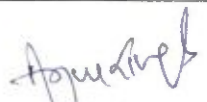
### 1.5. Assessment of Present Status of Slums

(Include brief description of slums in the ULB including growth patterns, status of notified/non-notified slums, ward wise slum details and brief slum profile

Annexure D: Investment Requirement for each slum:

Sl. No.	Ward Number	Slum Code	Name of the slum (New)	Tenure	Notified / Non-notified	Slum Development Model	Katcha House Cost (in Rs Lakh)	Semi-Pucca House Cost (in Rs Lakh)	Infrastructure cost (in Rs Lakh)	Cost	Add: O&M Cost	Grand Total
1	1	1	Baburani Para(S.C.-001)	Unsecure	Notified	ISD-6	21	342	178	541	21.64	562.64
2	2	2	Kumar Para Burning Ghat(S.C.-002)	Unsecure	Notified	PPP/AHP	586.5			586.5	0	586.5
3	3	3	Bazar Road(S.C.-003)	Secure	Notified	ISD-1	267	99	77.5	443.5	17.74	461.24
4	5	4	Goyala Para-II(S.C.-004)	Unsecure	Notified	PPP/AHP	577.5			577.5	0	577.5
5	6	5	Ambagan(S.C.-005)	Secure	Notified	ISD-2	108	660	476	1244	49.76	1293.76
6	8	6	Padma Pukur Road(S.C.-006)	Unsecure	Notified	Delisting				0	0	0
7	7	7	Kantadanga Road(S.C.-007)	Unsecure	Notified	ISD-7	297	1430	814	2541	101.64	2642.64
8	7	8	Kantadanga(S.C.-008)	Secure	Notified	ISD-1	90	604.5	216.5	911	36.44	947.44
9	8	9	Chalta Road(S.C.-009)	Unsecure	Notified	ISD-10	945	315	420	1680	67.2	1747.2
10	8	10	Kankinara Jute Mill Line(S.C.-010)	Unsecure	Non-Notified	PPP/AHP	1469.25			1469.25	0	1469.25
11	8	11	Naya Bazar(S.C.-011)	Unsecure	Non-Notified	ISD-6	2868	3400	2656	8924	356.96	9280.96
12	9	12	B.L.06(S.C.-012)	Unsecure	Notified	ISD-10	246	3921	1389	5556	222.24	5778.24
13	9	13	B.L.07(S.C.-013)	Unsecure	Notified	ISD-6	0	392	196	588	23.52	611.52
14	9	14	B.L.19(S.C.-014)	Unsecure	Notified	ISD-6	45	522	276	843	33.72	876.72
15	9	15	B.L.20(S.C.-015)	Unsecure	Notified	ISD-6	261	834	504	1599	63.96	1662.96
16	10	16	Ramnagar East(S.C.-016)	Secure	Notified	Delisting				0	0	0
17	10	17	Satyajit Pally(S.C.-017)	Secure	Notified	ISD-1	0	196.5	65.5	262	10.48	272.48
18	10	18	Sundiya Para(S.C.-018)	Unsecure	Notified	ISD-5	0	348	87	435	17.4	452.4
19	10	19	Adibasi Para(S.C.-019)	Secure	Non-Notified	Delisting				0	0	0
20	11	20	B.L.08(S.C.-020)	Unsecure	Notified	ISD-6	12	178	91	283	11.32	294.32
21	11	21	B.L.09(S.C.-021)	Unsecure	Notified	ISD-6	72	538	293	903	36.12	939.12
22	11	22	B.L.10(S.C.-022)	Unsecure	Notified	ISD-9	6	1833	613	2452	98.08	2550.08
23	11	23	B.L.11(S.C.-023)	Unsecure	Non-Notified	ISD-10	36	687	241	964	38.56	1002.56
24	11	24	B.L.12(S.C.-024)	Unsecure	Notified	ISD-10	24	1359	461	1844	73.76	1917.76
25	11	25	B.L.17(S.C.-025)	Unsecure	Notified	ISD-10	81	1401	494	1976	79.04	2055.04
26	12	26	Bakar Muhalla(S.C.-026)	Unsecure	Notified	ISD-9	33	2466	833	3332	133.28	3465.28
27	12	27	B.L.13(S.C.-027)	Unsecure	Notified	ISD-6	111	776	425	1312	52.48	1364.48
28	12	28	Kela Bagan(S.C.-028)	Unsecure	Notified	ISD-10	132	1965	699	2796	111.84	2907.84
29	12	29	Panchanantala(S.C.-029)	Unsecure	Notified	ISD-6	72	250	149	471	18.84	489.84
30	12	30	Anglo India Middle Mill Line(S.C.-030)	Unsecure	Non-Notified	PPP/AHP	363.75			363.75	0	363.75

  
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31	13	31	21 No Goli(S.C.-031)	Unsecure	Notified	ISD-6	3	1004	503	1510	60.4	1570.4
32	13	32	Barul Para(S.C.-032)	Unsecure	Notified	ISD-6	9	1538	772	2319	92.76	2411.76
33	13	33	Goyala Para(S.C.-033)	Unsecure	Notified	ISD-6	6	864	434	1304	52.16	1356.16
34	14	34	Manikpur(S.C.-034)	Unsecure	Notified	ISD-6	60	2486	1263	3809	152.36	3961.36
35	14	35	Sugla Para-Ward(14)(S.C.-035)	Unsecure	Notified	ISD-10	60	3249	1103	4412	176.48	4588.48
36	14	36	Suormari(S.C.-036)	Unsecure	Non-Notified	DPR Made					0	0
37	15	37	1 No. Kebin Road(S.C.-37)	Unsecure	Notified	ISD-11	72	663	245	980	39.2	1019.2
38	15	38	Begun Khet(S.C.-38)	Unsecure	Notified	ISD-5	156	316	105	577	23.08	600.08
39	15	39	Sugla Para - Ward (15) (S.C.-39)	Unsecure	Notified	ISD-11	174	324	166	664	26.56	690.56
40	15	40	Netaji Pally(S.C.-040)	Secure	Non-Notified	ISD-1	51	163.5	63	277.5	11.1	288.6
41	15	41	27 No Railway Siding(S.C.-041)	Unsecure	Non-Notified	ISD-8	165	54	73	292	11.68	303.68
42	16	42	Alliance Jute Kuli Line(S.C.-042)	Unsecure	Non-Notified	PPP/AHP	837			837	0	837
43	16	43	B.L.01(S.C.-043)	Unsecure	Notified	ISD-10	54	3846	1300	5200	208	5408
44	16	44	B.L.02(S.C.-044)	Unsecure	Notified	ISD-10	768	3654	1474	5896	235.84	6131.84
45	17	45	B.L.11(S.C.-045)	Unsecure	Notified	ISD-10	144	5253	1799	7196	287.84	7483.84
46	17	46	Guptar Bazar(S.C.-046)	Unsecure	Notified	ISD-10	99	6210	2103	8412	336.48	8748.48
47	18	47	Auckland Jute Mill Line(S.C.-047)	Unsecure	Non-Notified	PPP/AHP	863.25			863.25	0	863.25
48	18	48	B.L.09(S.C.-048)	Unsecure	Notified	ISD-10	0	597	199	796	31.84	827.84
49	18	49	Circus Jute Mill Line(S.C.-049)	Unsecure	Non-Notified	PPP/AHP	133.5			133.5	0	133.5
50	18	50	Meghna More (South)(S.C.-050)	Unsecure	Notified	ISD-10	39	1230	423	1692	67.68	1759.68
51	18	51	Meghna More (North)(S.C.-051)	Unsecure	Notified	ISD-9	21	2199	740	2960	118.4	3078.4
52	18	52	Meghnas Jute Mill Line(S.C.-052)	Unsecure	Non-Notified	PPP/AHP	571.5			571.5	0	571.5
53	18	53	Naya Bazar(S.C.-053)	Unsecure	Notified	ISD-10	3	498	167	668	26.72	694.72
54	18	54	Rustam Gumbi(S.C.-054)	Unsecure	Notified	ISD-10	18	1239	419	1676	67.04	1743.04
55	18	55	Rabindra Pally(S.C.-055)	Unsecure	Notified	ISD-7	186	686	405	1277	51.08	1328.08
56	19	56	Bankim Nagar(S.C.-056)	Unsecure	Notified	ISD-7	255	1112	641	2008	80.32	2088.32

  
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57	19	57	Surgara Road(S.C.-057)	Unsecure	Notified	ISD-11	162	1869	677	2708	108.32	2816.32
58	20	58	Mula Zore(S.C.-058)	Secure	Notified	ISD-4	180	567	249	996	39.84	1035.84
59	20	59	Sundia(S.C.-059)	Secure	Notified	ISD-1	0	135	45	180	7.2	187.2
60	21	60	Pramod Nagar(S.C.-060)	Unsecure	Notified	ISD-7	180	590	355	1125	45	1170
61	21	61	Sastri Nagar(S.C.-061)	Unsecure	Notified	ISD-11	78	1488	522	2088	83.52	2171.52
62	22	62	Santi Niwas Pally(S.C.-062)	Unsecure	Non-Notified	ISD-6	39	146	86	271	10.84	281.84
63	22	63	Uttar Para(S.C.-063)	Unsecure	Non-Notified	ISD-6	258	1018	595	1871	74.84	1945.84
64	23	64	Netaji Nagar Colony(S.C.-064)	Secure	Notified	ISD-4	120	1827	649	2596	103.84	2699.84
65	23	65	Satin Sen Nagar(S.C.-065)	Secure	Notified	Delisting				0	0	0
66	23	66	Purbasha(S.C.-066)	Unsecure	Notified	ISD-11	393	687	360	1440	57.6	1497.6
67	24	67	Battala Ramkrishna Pally(S.C.-067)	Secure	Notified	ISD-1	36	319.5	112.5	468	18.72	486.72
68	24	68	Rabindra Pally(S.C.-068)	Unsecure	Notified	ISD-6	27	206	112	345	13.8	358.8
69	25	69	Neg Bagan(S.C.-069)	Secure	Notified	Delisting				0	0	0
70	25	70	Sarat Pally(S.C.-070)	Secure	Notified	Delisting				0	0	0
71	26	71	Chak Guradah Ram Mohan Pally(S.C.-071)	Unsecure	Non-Notified	ISD-7	18	80	46	144	5.76	149.76
72	26	72	House Khana(S.C.-072)	Unsecure	Non-Notified	ISD-11	126	498	208	832	33.28	865.28
73	26	73	Jana Para(S.C.-073)	Unsecure	Non-Notified	ISD-7	45	120	75	240	9.6	249.6
74	26	74	Chak Guradah C.M.D Bagan(S.C.-074)	Unsecure	Notified	ISD-7	30	270	145	445	17.8	462.8
75	26	75	Palpara Deba Sree Pally(S.C.-075)	Unsecure	Non-Notified	ISD-7	69	156	101	326	13.04	339.04
76	26	76	Ukil Bagan(S.C.-076)	Unsecure	Notified	ISD-7	9	214	110	333	13.32	346.32
77	27	77	Guradah(S.C.-077)	Secure	Notified	ISD-3	567	1490	934	2991	119.64	3110.64
78	27	78	Malekarpara(S.C.-078)	Unsecure	Notified	ISD-7	42	404	216	662	26.48	688.48
79	28	79	B.R.S.(S.C.-079)	Unsecure	Notified	ISD-8	2205	1629	1278	5112	204.48	5316.48
80	28	80	Rahuta Purba Para(S.C.-080)	Secure	Non-Notified	ISD-4	876	1101	659	2636	105.44	2741.44
81	28	81	Rahuta(S.C.-081)	Secure	Notified	ISD-4	870	831	567	2268	90.72	2358.72

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82	29	82	Hindustan Colony(S.C.-082)	Secure	Non-Notified	Delisting				0	0	0
83	29	83	Milangar Udyannagar(S.C.-083)	Secure	Non-Notified	ISD-3	3	430	216	649	25.96	674.96
84	29	84	Naba Pally(S.C.-084)	Secure	Notified	Delisting				0	0	0
85	30	85	Mitrapara(S.C.-085)	Unsecure	Notified	ISD-7	123	374	228	725	29	754
86	30	86	Nayan Pally(S.C.-086)	Secure	Notified	ISD-3	87	298	178	563	22.52	585.52
87	30	87	Ram Krishna Pally(S.C.-087)	Unsecure	Notified	ISD-7	60	216	128	404	16.16	420.16
88	30	88	Satadal Pally(S.C.-088)	Unsecure	Notified	ISD-7	120	550	315	985	39.4	1024.4
89	30	89	Uchhegarh Uttarpara(S.C.-089)	Unsecure	Non-Notified	ISD-11	93	84	55	236	9.44	245.44
90	30	90	Uchhegarh(S.C.-090)	Secure	Non-Notified	ISD-3	42	84	56	182	7.28	189.28
91	31	91	Balishkhana(S.C.-091)	Secure	Non-Notified	ISD-3	3	418	210	631	25.24	656.24
92	31	92	Fakir Para (North)(S.C.-092)	Secure	Notified	ISD-3	90	210	135	435	17.4	452.4
93	31	93	South Narayan Pur(S.C.-093)	Secure	Notified	ISD-3	60	340	190	590	23.6	613.6
94	31	94	Subhashpur(S.C.-094)	Secure	Non-Notified	Delisting				0	0	0
95	31	95	Kewtia Palpara(S.C.-095)	Unsecure	Notified	ISD-7	108	318	195	621	24.84	645.84
96	32	96	Bijay Nagar(S.C.-096)	Secure	Notified	ISD-1	6	771	258	1035	41.4	1076.4
97	32	97	Chasipara(S.C.-097)	Secure	Non-Notified	Delisting				0	0	0
98	32	98	Dule Para(S.C.-098)	Unsecure	Notified	ISD-6	39	280	153	472	18.88	490.88
99	32	99	Mangal Pandey Pally(S.C.-099)	Secure	Notified	ISD-1	3	114	38.5	155.5	6.22	161.72
100	32	100	Paler Math(S.C.-100)	Secure	Notified	ISD-1	0	246	82	328	13.12	341.12
101	32	101	Purba Para(S.C.-101)	Secure	Notified	ISD-2	18	66	50	134	5.36	139.36
102	33	102	Durga Nagar(S.C.-102)	Unsecure	Notified	Delisting				0	0	0
103	33	103	Hatath Colony(S.C.-103)	Secure	Notified	ISD-1	48	330	118	496	19.84	515.84
104	33	104	Matpukur Colony(S.C.-104)	Secure	Notified	ISD-2	6	226.5	153	385.5	15.42	400.92
105	33	105	Jay Chandl Tala(S.C.-105)	Secure	Notified	ISD-1	6	70.5	24.5	101	4.04	105.04
106	33	106	Kamar Pukur Dhar(S.C.-106)	Secure	Notified	ISD-1	6	226.5	76.5	309	12.36	321.36
107	33	107	New Town(S.C.-107)	Unsecure	Non-Notified	ISD-10	3	219	74	296	11.84	307.84
108	33	108	Sarat Pally(S.C.-108)	Secure	Non-Notified	ISD-1	174	256.5	114.5	545	21.8	566.8

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109	33	109	Subhaspur(S.C.-109)	Secure	Non-Notified	ISD-3	51	294	164	509	20.36	529.36
110	34	110	Badam Tala Milan Pally(S.C.-110)	Secure	Notified	Delisting				0	0	0
111	34	111	Banash Bagan(S.C.-111)	Secure	Notified	Delisting				0	0	0
112	34	112	Fakir Para (South) (S.C.-112)	Secure	Notified	ISD-3	24	168	92	284	11.36	295.36
113	34	113	Hatat Sukanta Pally(S.C.-113)	Secure	Notified	ISD-3	159	174	140	473	18.92	491.92
114	34	114	Manasha Colony(S.C.-114)	Unsecure	Non-Notified	ISD-11	336	1140	492	1968	78.72	2046.72
115	35	115	64 Pally(S.C.-115)	Secure	Notified	ISD-3	3	1044	523	1570	62.8	1632.8
116	35	116	Abantipur(S.C.-116)	Secure	Notified	ISD-1	207	361.5	155	723.5	28.94	752.44
117	35	117	Jagan Nath Colony(S.C.-117)	Secure	Notified	ISD-3	0	236	118	354	14.16	368.16
118	35	118	Kundur Bagan(S.C.-118)	Unsecure	Notified	ISD-11	87	189	92	368	14.72	382.72
119	35	119	Sree Rampur(S.C.-119)	Secure	Notified	ISD-3	36	338	181	555	22.2	577.2
120	35	120	Sthirpara(S.C.-120)	Secure	Non-Notified	ISD-3	21	1132	573	1726	69.04	1795.04
			Total				21824.25	88552.5	39737	150113.75	5788.46	155902



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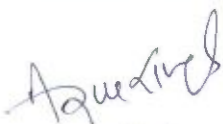


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## 1.5.1. Slum Profile and its Location

(Including slum dwelling unit density, land values, land ownership and tenure status of the slums)						
As per list & Map						
S/No	Slum code	Name of the Slum	Slum Density	Land Values	Land Ownership	Tenure Status
1	1	<b>BABURANI PARA(S.C.-001)</b>	Low	Z1	Private owned	Unsecure
2	2	<b>Kumar Para Burning Ghat (S.C.-002)</b>	Low	Z1	Private owned	Unsecure
3	3	<b>BAZAR ROAD(S.C.-003)</b>	Low	Z1	Private owned	Secure
4	4	<b>GOYALA PARA-II(S.C.-004)</b>	Low	Z1	Private owned	Unsecure
5	5	<b>AMBAGAN(S.C.-005)</b>	Low	Z1	Private owned	Secure
6	6	<b>PADMA PUKUR ROAD(S.C.-006)</b>	Low	Z1	Private owned	Unsecure
7	7	<b>KANTADANGA ROAD(S.C.-007)</b>	Low	Z1	Private owned	Unsecure
8	8	<b>KANTADANGA(S.C.-008)</b>	Low	Z1	Private owned	Secure
9	9	<b>CHALTA ROAD(S.C.-009)</b>	Low	Z1	Private owned	Unsecure
10	10	<b>KANKINARA JUTE MILL LINE(S.C.-010)</b>	Low	Z1	Private owned	Unsecure
11	11	<b>NAYA BAZAR(S.C.-011)</b>	Low	Z1	Private owned	Unsecure
12	12	<b>B L.06(S.C.-014)</b>	Low	Z1	Private owned	Unsecure
13	13	<b>B L.07(S.C.-012)</b>	Low	Z1	Private owned	Unsecure


  
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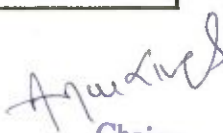
  
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14	14	<b>B L.19(S.C.-013)</b>	Low	Z1	Private owned	Unsecure
15	15	<b>B L-20(S.C.-015)</b>	Low	Z1	Private owned	Unsecure
16	16	<b>RAMNAGAR EAST(S.C.-016)</b>	Low	Z1	Private owned	Secure
17	17	<b>SATYAJIT PALLY(S.C.-017)</b>	Low	Z1	Private owned	Secure
18	18	<b>SUNDIYA PARA(S.C.-018)</b>	Low	Z1	Private owned	Unsecure
19	19	<b>Adibasi Para(S.C.-019)</b>	Low	Z1	Private owned	Secure
20	20	<b>B L.08(S.C.-020)</b>	Low	Z1	Private owned	Unsecure
21	21	<b>B L.09(S.C.-021)</b>	Low	Z1	Private owned	Unsecure
22	22	<b>B L.10(S.C.-022)</b>	Medium	Z1	Private owned	Unsecure
23	23	<b>B L.11(S.C.-023)</b>	Low	Z1	Private owned	Unsecure
24	24	<b>B L.12(S.C.-024)</b>	Low	Z1	Private owned	Unsecure
25	25	<b>BL-17(S.C.-025)</b>	Low	Z1	Private owned	Unsecure
26	26	<b>BAKAR MUHALLA(S.C.-026)</b>	Medium	Z1	Private owned	Unsecure
27	27	<b>B L.13(S.C.-027)</b>	Low	Z1	Private owned	Unsecure
28	28	<b>KELA BAGAN(S.C.-028)</b>	Low	Z1	Private owned	Unsecure
29	29	<b>PANCHANANTALA(S.C.-029)</b>	Low	Z1	Private owned	Unsecure
30	30	<b>Anglo India Middle Mill Line(S.C.-030)</b>	Low	Z1	Private owned	Unsecure
31	31	<b>21 NO GOLI(S.C.-031)</b>	Low	Z1	Private owned	Unsecure
32	32	<b>BARUI PARA(S.C.-032)</b>	Low	Z1	Private owned	Unsecure
33	33	<b>GOYALA PARA (S.C.-033)</b>	Low	Z1	Private owned	Unsecure



34	34	<b>MANIKPIR(S.C-034)</b>	Low	Z1	Private owned	Unsecure
35	35	<b>SUGIA PARA-WARD(14)(S.C.-035)</b>	Low	Z1	Private owned	Unsecure
36	36	<b>SUORMARI(S.C-036)</b>	Low	Z1	Private owned	Unsecure
37	37	<b>1 NO. KEBIN ROAD(S.C.-37)</b>	Low	Z1	Private owned	Unsecure
38	38	<b>BEGUN KHET(S.C.-38)</b>	Low	Z1	Private owned	Unsecure
39	39	<b>SUGIA PARA - WARD (15) (S.C.-39)</b>	Low	Z1	Private owned	Unsecure
40	40	<b>Netaji Pally(S.C.-040)</b>	Low	Z1	Private owned	Secure
41	41	<b>27 No Railway Siding(S.C.-041)</b>	Low	Z1	Private owned	Unsecure
42	42	<b>ALLIANCE JUTE KULI LINE(S.C.-042)</b>	Medium	Z1	Private owned	Unsecure
43	43	<b>B L.01(S.C.-043)</b>	Low	Z1	Private owned	Unsecure
44	44	<b>B L.02(S.C.-044)</b>	Low	Z1	Private owned	Unsecure
45	45	<b>B L.11(S.C.-045)</b>	Low	Z1	Private owned	Unsecure
46	46	<b>GUPTAR BAGAN(S.C.-046)</b>	Low	Z1	Private owned	Unsecure

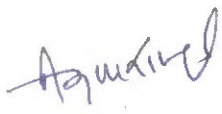
  
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47	47	AUCKLAND JUTE MILL LINE(S.C.-047)	Low	Z1	Private owned	Unsecure
48	48	B L.09(S.C.-048)	Low	Z1	Private owned	Unsecure
49	49	CIRCUS JUTE MILL LINE(S.C.-049)	Low	Z1	Private owned	Unsecure
50	50	MEGHNA MORE (SOUTH)(S.C.-050)	Low	Z1	Private owned	Unsecure
51	51	MEGHNA MORE (NORTH)(S.C.-051)	Medium	Z1	Private owned	Unsecure
52	52	MEGHNAS JUTE MILL LINE(S.C.-052)	Medium	Z1	Private owned	Unsecure
53	53	NAYA BAZAR(S.C.-053)	Low	Z1	Private owned	Unsecure
54	54	RUSTAM GUMTI(S.C.-054)	Low	Z1	Private owned	Unsecure
55	55	RABINDRA PALLY (S.C.-055)	Low	Z1	Private owned	Unsecure
56	56	BANKIM NAGAR(S.C.-056)	Low	Z1	Private owned	Unsecure
57	57	SURPARA ROAD(S.C.-057)	Low	Z1	Private owned	Unsecure
58	58	MULA ZORE(S.C.-058)	Low	Z1	Private owned	Secure
59	59	SUNDIA(S.C.-059)	Low	Z1	Private owned	Secure
60	60	PRAMOD NAGAR(S.C.-060)	Low	Z1	Private owned	Unsecure

61	61	<b>SASTRI NAGAR(S.C.-061)</b>	Low	Z1	Private owned	Unsecure
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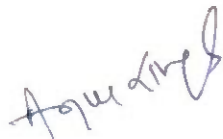
  
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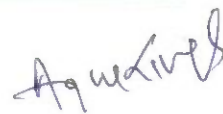
62	62	<b>SANTI NIWAS PALLY(S.C.-062)</b>	Low	Z1	Private owned	Unsecure
63	63	<b>UTTAR PARA(S.C.-063)</b>	Low	Z1	Private owned	Unsecure
64	64	<b>NETAJI NAGAR COLONEY(S.C.-064)</b>	Low	Z1	Private owned	Secure
65	65	<b>SATIN SEN NAGAR(S.C.-065)</b>	Low	Z1	Private owned	Secure
66	66	<b>PURBASHA(S.C.-066)</b>	Low	Z1	Private owned	Unsecure
67	67	<b>BATTALA RAMKRISHNA PALLY(S.C.-067)</b>	Low	Z1	Private owned	Secure
68	68	<b>RABINDRA PALLY(S.C.-068)</b>	Low	Z1	Private owned	Unsecure
69	69	<b>NAG BAGAN(S.C.-069)</b>	Low	Z1	Private owned	Secure
70	70	<b>SARAT PALLY (S.C.-070)</b>	Low	Z1	Private owned	Secure
71	71	<b>CHAK GURADAH RAM MOHAN PALLY(S.C.-071)</b>	Low	Z1	Private owned	Unsecure
72	72	<b>HOUSE KHANA(S.C.-072)</b>	Low	Z1	Private owned	Unsecure

  
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73	73	<b>JANA PARA(S.C.-073)</b>	Low	Z1	Private owned	Unsecure
74	74	<b>CHAK GURADAH C.M.D BAGAN(S.C.-074)</b>	Low	Z1	Private owned	Unsecure
75	75	<b>PALPARA DEBA SREE PALLY(S.C.-075)</b>	Low	Z1	Private owned	Unsecure
76	76	<b>UKIL BAGAN(S.C.-076)</b>	Low	Z1	Private owned	Unsecure
77	77	<b>GURDAH(S.C.-077)</b>	Low	Z1	Private owned	Secure
78	78	<b>MALAKARPARA(S.C.-078)</b>	Low	Z1	Private owned	Unsecure
79	79	<b>B.R.S.(S.C.-079)</b>	Low	Z1	State Governm ent	Unsecure
80	80	<b>RAHUTA PURBA PARA(S.C.-080)</b>	Low	Z1	Private owned	Secure
81	81	<b>RAHUTA(S.C.-081)</b>	Low	Z1	Private owned	Secure
82	82	<b>HINDUSTAN COLONY(S.C.-082)</b>	Low	Z4	Private owned	Secure
83	83	<b>MILANGAR UDYANAGAR(S.C.-083)</b>	Low	Z4	Private owned	Secure
84	84	<b>NABA PALLY(S.C.-084)</b>	Low	Z4	Private owned	Secure
85	85	<b>MITRAPARA(S.C.-085)</b>	Low	Z4	Private owned	Unsecure
86	86	<b>NAYAN PALLY(S.C.-086)</b>	Low	Z4	Private owned	Secure

  
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87	87	<b>RAM KRISHNA PALLY(S.C.-087)</b>	Low	Z4	Private owned	Unsecure
88	88	<b>SATADAL PALLY(S.C.-088)</b>	Low	Z4	Private owned	Unsecure
89	89	<b>UCHCHEGARH UTTARPARA(S.C.-089)</b>	Low	Z4	Private owned	Unsecure
90	90	<b>UCHHEGARH(S.C.-090)</b>	Low	Z4	Private owned	Secure
91	91	<b>BALISHKHANA(S.C.-091)</b>	Low	Z4	Private owned	Secure
92	92	<b>FAKIR PARA (NORTH)(S.C.-092)</b>	Low	Z4	Private owned	Secure
93	93	<b>SOUTH NARAYAN PUR(S.C.-093)</b>	Low	Z4	Private owned	Secure
94	94	<b>SUBHASHPUR(S.C.-094)</b>	Low	Z4	Private owned	Secure
95	95	<b>KEWTIA PALPARA(S.C.-095)</b>	Low	Z4	Private owned	Unsecure
96	96	<b>BIJAY NAGAR(S.C.-096)</b>	Low	Z4	Private owned	Secure
97	97	<b>CHASIPARA(S.C.-097)</b>	Low	Z4	Private owned	Secure
98	98	<b>DULE PARA(S.C.-098)</b>	Low	Z4	Private owned	Unsecure
99	99	<b>MANGAL PANDEY PALLY(S.C.-099)</b>	Low	Z4	Private owned	Secure
100	100	<b>PALER MATH(S.C.-100)</b>	Low	Z4	Private owned	Secure

  
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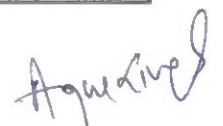
  
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101	101	<b>PURBA PARA(S.C.-101)</b>	Low	Z4	Private owned	Secure
102	102	<b>DURGA NAGAR(S.C.-102)</b>	Low	Z4	Private owned	Unsecure
103	103	<b>HATATH COLONY(S.C.-103)</b>	Low	Z4	Private owned	Secure
104	104	<b>HATPUKUR COLONY(S.C.-104)</b>	Low	Z4	Private owned	Secure
105	105	<b>JAY CHANDI TALA(S.C.-105)</b>	Low	Z4	Private owned	Secure
106	106	<b>Kamar Pukur Dhar(S.C.-106)</b>	Low	Z4	Private owned	Secure
107	107	<b>NEW TOWN(S.C.-107)</b>	Low	Z4	Private owned	Unsecure
108	108	<b>SARAT PALLY (S.C.-108)</b>	Low	Z4	Private owned	Secure
109	109	<b>Subhaspur(S.C.-109)</b>	Low	Z4	Private owned	Secure
110	110	<b>BADAM TALA MILAN PALLY(S.C.-110)</b>	Low	Z4	Private owned	Secure
111	111	<b>BANSH BAGAN(S.C.-111)</b>	Low	Z4	Private owned	Secure
112	112	<b>FAKIR PARA (SOUTH) (S.C.-112)</b>	Low	Z4	Private owned	Secure
113	113	<b>HATAT SUKANTA PALLY(S.C.-113)</b>	Low	Z4	Private owned	Secure



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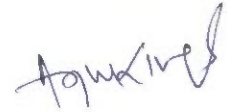


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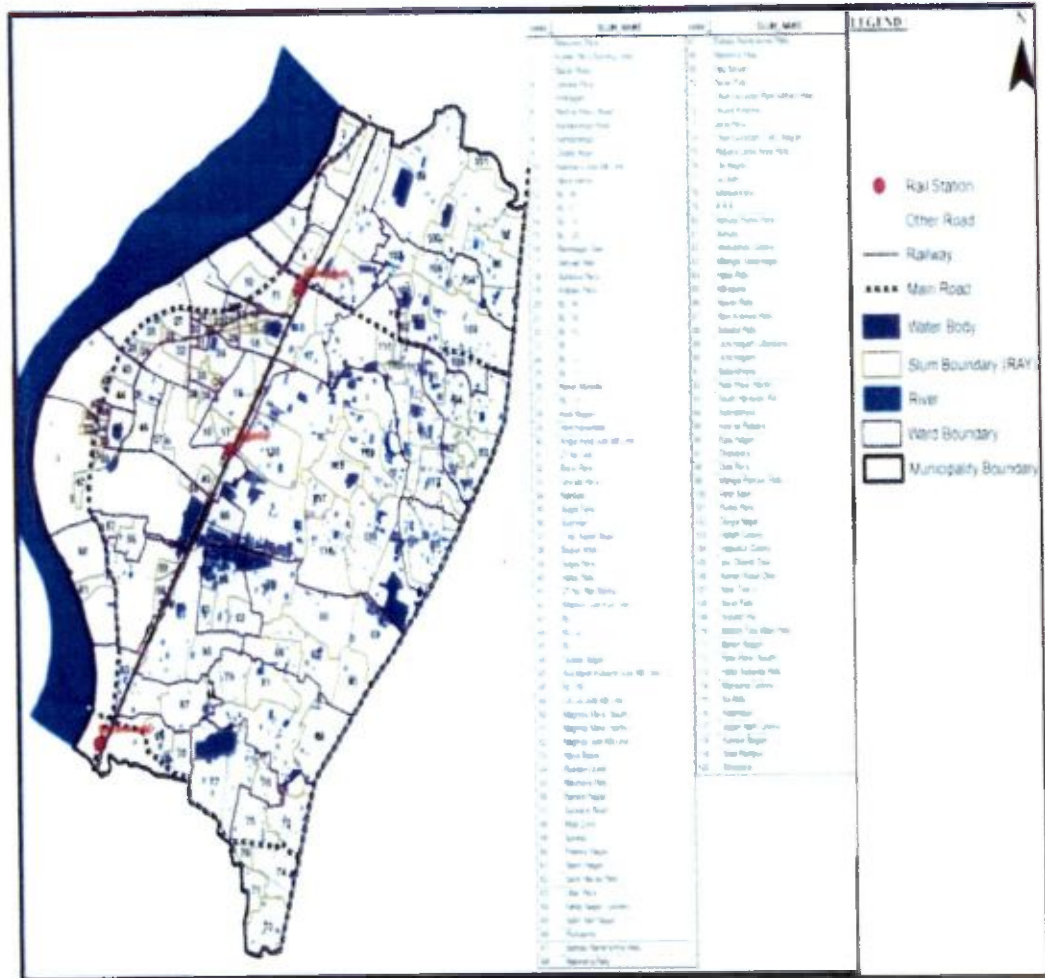
114	114	<b>MANASHA COLONY(S.C.-114)</b>	Low	Z4	Private owned	Unsecure
115	115	<b>64 PALLY(S.C.-115)</b>	Low	Z4	Private owned	Secure
116	116	<b>ABANTIPUR(S.C.-116)</b>	Low	Z4	Private owned	Secure
117	117	<b>JAGAN NATH COLONY(S.C.-117)</b>	Low	Z4	Private owned	Secure
118	118	<b>KUNDUR BAGAN(S.C.-118)</b>	Low	Z4	Private owned	Unsecure
119	119	<b>SREE RAMPUR(S.C.-119)</b>	Low	Z4	Private owned	Secure
120	120	<b>STHIRPARA(S.C.-120)</b>	Low	Z4	Private owned	Secure



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## Slum Profile

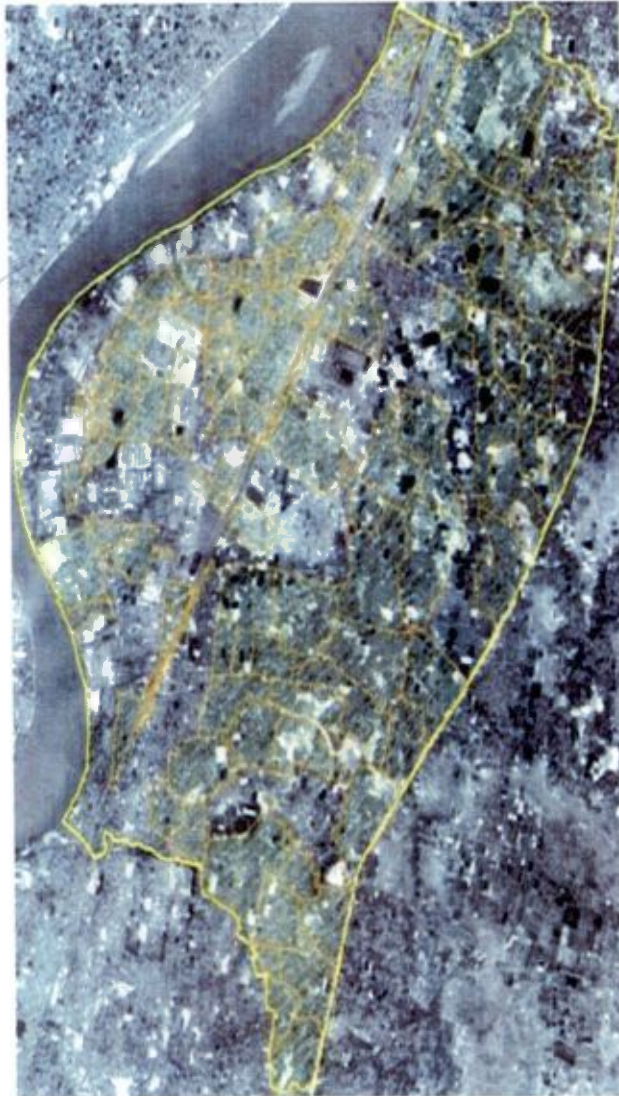
Bhatpara has a total of 120 slums spread across all the 35 wards of the municipality[1]. The detailed list of slums is provided in Annexure F

The maps in the following pages illustrate the location of these slums, their age and legal status

Map 5 : Slums marked on the GIS base map

Map 6: Slum pockets in Bhatpara Municipality on Satellite Image

[1] Number and list of slums along with their location ward wise have been approved by all ward councilors and passed as BOC resolution on 31st January, 2014

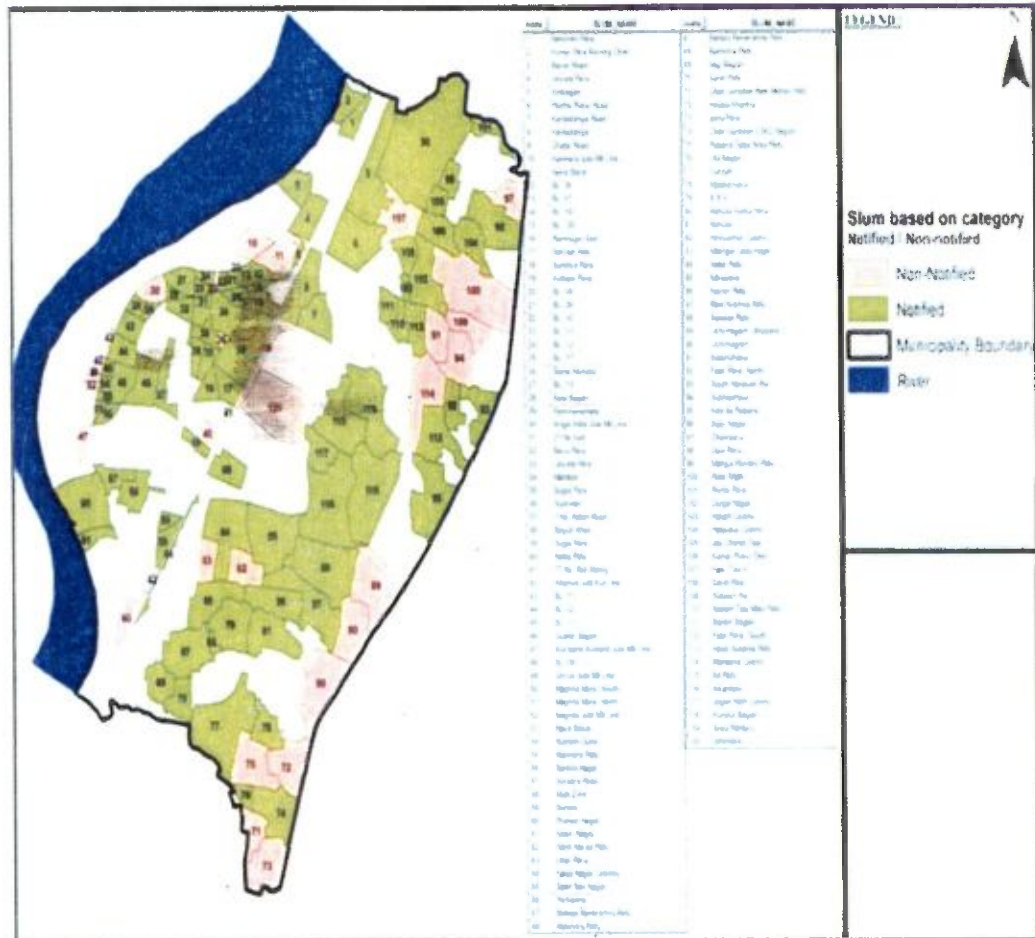


  
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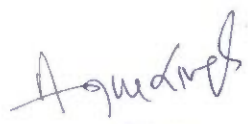
  
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Map 7 : Status (Notified and Non-Notified) of slums in Bhatpara

Map 8 Age of slums in Bhatpara

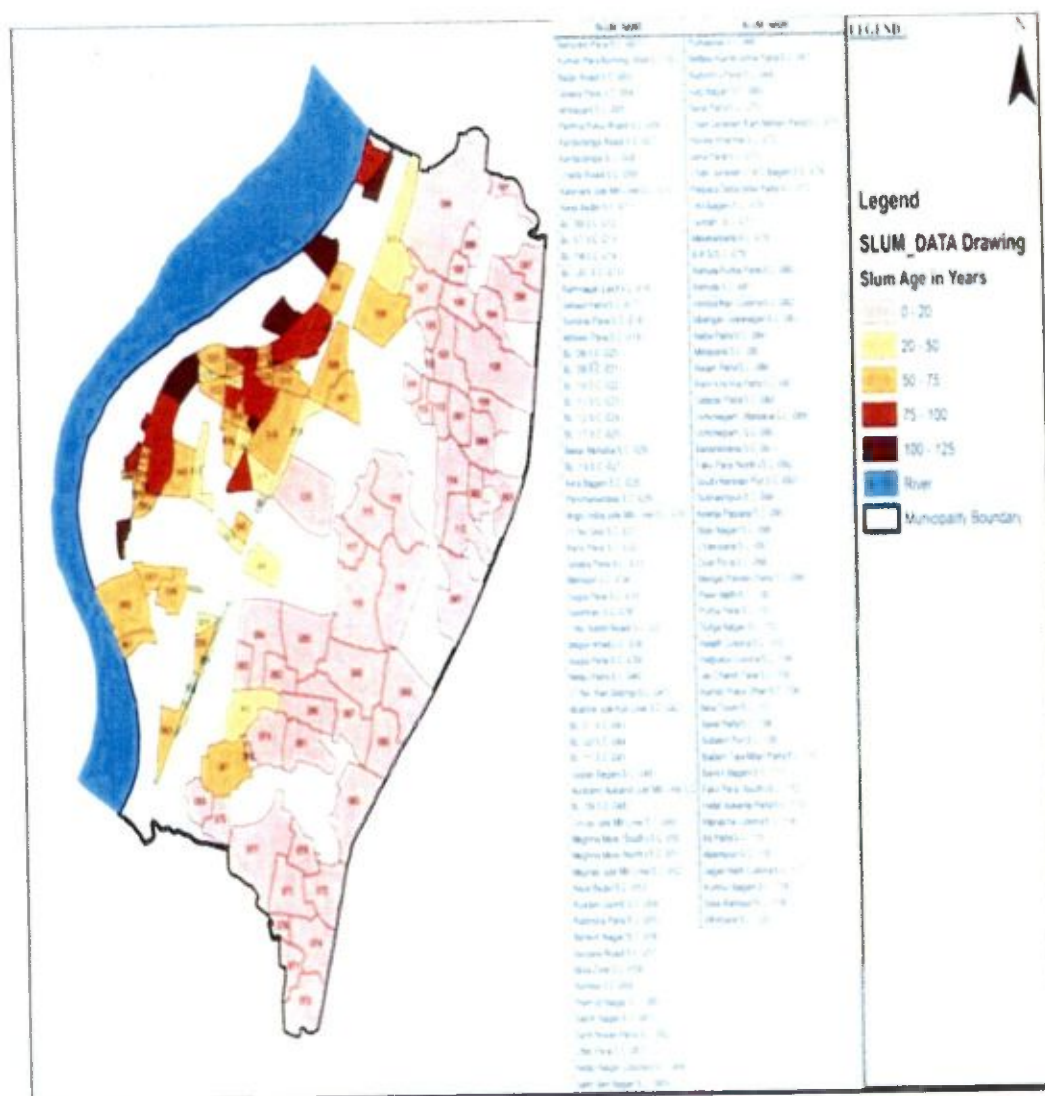


  
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Annexure B-1 and Annexure B-2 provide the details of the distribution of slums based on their Legal status, ownership, area as compared to the population. The table below represents wards wise distribution of all the slums along with their ownership status, and age.

Table 19 Legal Status, Ownership and Age of slums



Annexure B-1 and Annexure B-2 provide the details of the distribution of slums based on their Legal status, ownership, area as compared to the population. The table below represents wards wise distribution of all the slums along with their ownership status, and age.

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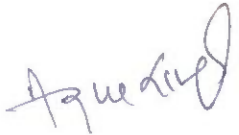
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Table 19 Legal Status, Ownership and Age of slums

Ward No.	No. of slums	Slums by Legal Status		Land Ownership				Age of Slums (in years)				
		Notified	Non-Notified	Private	Public/ULB	Public/State Govt.	Railways	<25	25-50	51-75	75-100	>100
1	1	1		1								1
2	1	1		1							1	
3	1	1		1					1			1
5	1	1		1						1		
6	2	2		2						1		
7	2	2		2						2		
8	3	1	2	3					2		2	1
9	4	4		4						2	2	
10	4	3	1	4					1	1	1	
11	6	5	1	6					1	3	3	
12	5	4	1	5						1		3
13	3	3		3				1	2	2		
14	3	3		2	1					1	1	1
15	5	2	3	4			1			2		
16	3	2	1	3				1			3	
17	2	1	1	2						1	1	
18	9	6	3	9					1	6	1	1
19	2	2		2						2		
20	2	2		2					1	1		
21	2	2		2					3	2		
22	2	1	1	2				1		1		
23	3	2	1	3				2				
24	2	2		2				6		1		
25	2	2		2				2				
26	6	2	4	6				3				
27	2	2		2				3				
28	3	2	1	2		1		6				
29	3	1	2	3				5				
30	6	4	2	6				6				
31	5	3	2	5				8				
32	6	5	1	6				5				
33	8	5	3	8				6				
34	5	4	1	5								
35	6	5	1	6								
Total	120	89	31	117	1	1	1	55	12	30	15	8

  
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## Source: USHA Survey and MIS data validation report

## The following conclusions can be drawn from the above table:

Bhatpara has uneven distribution of slums in its 35 wards. Of these 21 wards have 3 or less than 3 slums, while, in 7 wards; number of slums is 6 or more than 6.

Ward no. 18, located at the core of the city, has highest number of slums (9 nos.) followed by ward no. 33 (north eastern part of the town) with 8 slums. Next comes five (5) wards containing 6 slums each and out of these five (5) wards, except for ward no. 11 on the western side of railway track, rest of the wards (nos. 26, 30, 32, 35) are spread across the length of the eastern side of the municipality. On the contrary, out of 22 wards, which were one of the oldest wards of the town, 11 wards have only 1-2 slums each while only four wards have three slums each. This implies that wards located in the Eastern side of the railway tracks are observed to contain higher number of slums per ward compared to the wards on the Western side.

Around 3/4<sup>th</sup> of the total slums are notified, of which around 55% are located in 22 wards located on western part of railway track.

Almost 98% slums (117 in number) are located on privately owned land, while the remaining 3 slums are located on Government/ULB owned/service land.

Wards 24 to 35 which were included in Bhatpara municipality area after 1995, constitute around 45% of total number of slums indicating the trend of shift in settlements from west to east within the municipality over last two decade.

The slums aged more than 100 years are located along the banks of Hooghly in Wards 1,3,8,12,14 18, which are located at the core of the town. This is primarily due to the fact they are the oldest parts of the Municipality with most of them having jute mills within its boundaries leading to creation of settlements of mill workers over the years.

## Slum status as per Location

Location wise analysis shows that 89 slums are situated in core area<sup>[1]</sup> of the municipality, of which 74 slums are notified slums and 15 slums are non-notified slums. Remaining 31 slums are situated in fringe area<sup>[2]</sup> of the city out of which 15 slums are notified slums and 16 slums are non-notified slums. Status of Slums in Bhatpara as per Location has been presented in the table below:

[1] Core Area: The part of the area which is situated along the two sides of railway track cutting across the town from north to south is core area. Refer Core Area (C) identified in the section 2.4.1 on existing pattern of Development

[2] Fringe Area: Slums falling in Zones which are just adjacent to or have close proximity to the Barrackpur Kalyani Expressway or those which are situated in between the area coming between the bank of Hooghly River and the Ghoshpara main Road are identified as fringe area. Also, slums located adjacent to the municipal boundaries in the North or South also fall in the same category. Refer Eastern (E) and Western (W) Periphery Zones boundaries identified in the section 2.4.1 on existing pattern of Development for a better understanding.

  
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Table 20 Status of Slums in Bhatpara as Per Location

Status of Slums	Core Area				Fringe Area				Slum Population in % terms of total population of slums	Slum HHs in % terms of total number of slum HHs
	No. of Slums	No. of HHs	No. of Persons	Area (Sq. Km)	No. of Slums	No. of HHs	No. of Persons	Area (Sq. Km)		
Notified	74	51189	200902	8.8	15	7483	28176	3.09	76.5	76.4
Non-Notified	15	9873	40550	1.61	16	8245	29648	2.64	23.5	23.6
<b>Total</b>	<b>89</b>	<b>61,062</b>	<b>229078</b>	<b>10.41</b>	<b>31</b>	<b>15728</b>	<b>57824</b>	<b>5.72</b>	<b>100</b>	<b>100</b>

Source: MIS data validation report and GIS base map

From the above table, it can be inferred that :

Total area under slums in Bhatpara is 16.14 sq. km occupied by 76790 households and constituting around 60% of the total area of the city and 73% of the total city population.

74% of total notified and Non-notified slums are located in the core area occupying around 65% of the total slum area of the town accommodating nearly 81% of the slum population.

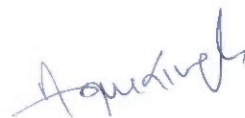
Out of all notified and non-notified slums, 83% of total notified slums (74 out of total 89 slums) and 48% of total Non-notified slums (15 out of total 31 slums) fall in core area and maximum concentration of households is also observed in the core area recording around 80% (61602 out of total 76790 households) total slum households.

Only 20% of the slum households (15728 out of total 76790 slum households) and 19% of slum population (57,824 out of 2,92,076 households) live in the fringe area which constitutes 35% area of the municipality leading to the fact that slums in fringe area comprises of large chunk of vacant space unlike the core area of town.

Distribution of all the slums against the area categories is given in Annexure B-3



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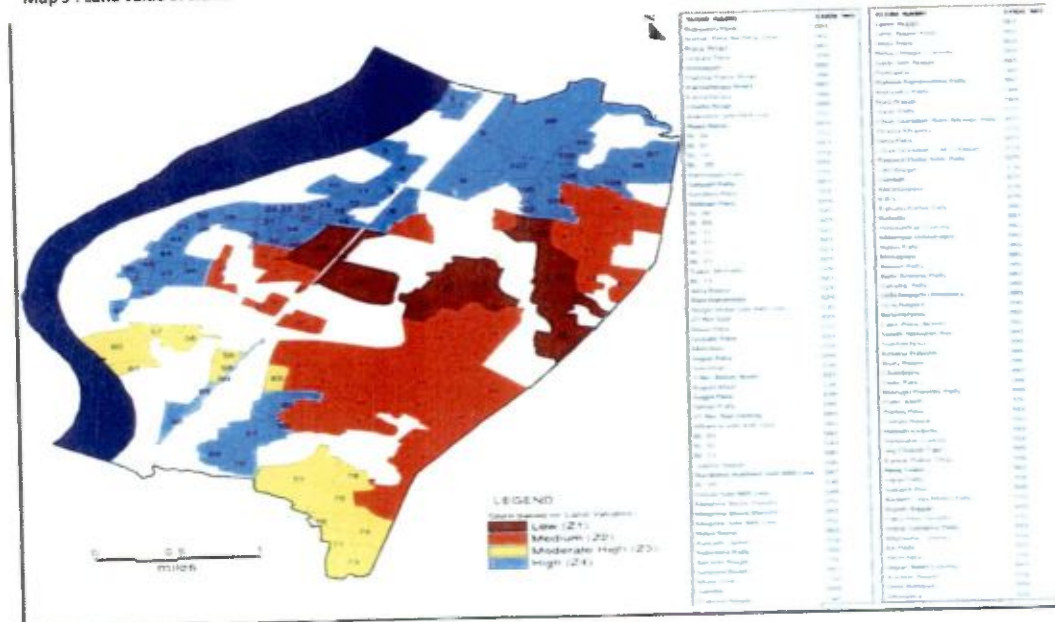
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Based on information on land values at different areas of Bhatpara Municipality received from West Bengal Valuation Board (WBVB), all the slums have been categorised into four zones i) Z1 (High), ii) Z2 (Moderately High), iii) Z3 (medium) and iv) Z4 (Low). The table below specifies the criteria for each category and relevant no. of slums.

Zone	Categories	WBVB Land Value in INR per Katha (2014)	no. of Stumps
Z1	Low	<2 lacs	11
Z2	Medium	2-3 lacs	31
Z3	Moderately High	3-4 lacs	14
Z4	High	>4 lacs	64

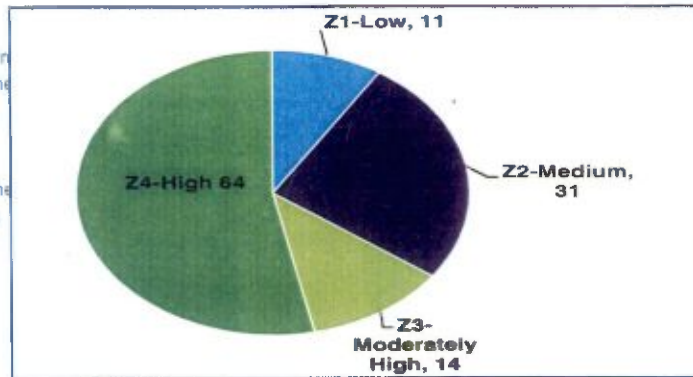
**Map 9 : Land value of slums**



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Chairman  
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Distribution of slums in the four zones is depicted in the map above and figure alongside :

• **High Land Value Zone (Z4) :** Around 53% (64 nos.) of the slums are in the high land value zone with an average land value of more than Rs 4 lakhs per cottah[1]. Majority of these slums are in the western side, either located along the Ghoshpara main road or on the eastern side, along the two arterial roads (Basudevpur Road and A,B Road) connecting these parts of the town to the railway stations. Connectivity factor has led this zone as promising zone in term land valuation.



[1] The data for the different land value categories and their zones in Bhatpara was obtained from the West Bengal valuation Board (WBVB). After having analyzed the data after necessary groundtruthing, values were discussed with the ULB officials and ward councilors for validation of the same. Finally, ratified land value data were arrived at and considered for final analysis.

- **Moderately High Land Value Zone (Z3):** The slums located are mostly located on the south-east portion of the municipality. This area is well connected by Basudevpur Road and is also adjacent to the Barrackpur Kalyani Expressway.
- **Medium Land Value Zone (Z2):** The slums on the eastern side of the municipality are predominantly on land which has medium value. The factors impacting relatively lesser land value of this zone may be attributed to lack of access to requisite municipal services and urban village characteristics of this zone. But, owing to proximity to the railway line or the expressway along with increase in population growth in this zone, land value may likely to go up in the future.
- **Low land Value Zone (Z1):** Majority of these slums are located on low value zone are the ones located along the canal and low land area in the eastern side of the town facing waterlogging during monsoon.

Annexure B-4 provides the detail of Land value identified for each slum.

#### 1.4. Housing and Physical Infrastructure profile

(Existing Housing stock, land availability, land use, construction cost, Housing typologies, information on current city housing projects etc

Spatial coverage and adequacy of Water supply, solid waste management, Sewerage, storm water drainage etc.,)


The following table specifies the development model for each of the slums:

  
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Table 22 : Slum wise Development Models

Sl. No.	Ward Number	Slum Code	Name of the slum	Tenability Status	Number of Households	Tenure	Housing Condition	Ownership of Land	Household density
1	6	6	Padma Pukur Road(S.C.-006)	Tenable	1510	Unsecure	Good	Private owned	Low
2	10	16	Ramnagar East(S.C.-016)	Tenable	1210	Secure	Good	Private owned	Low
3	10	19	Adibasi Para(S.C.-019)	Tenable	118	Secure	Good	Private owned	Low
4	23	65	Satin Sen Nagar(S.C.-065)	Tenable	1039	Secure	Good	Private owned	Low
5	25	69	Nag Bagan(S.C.-069)	Tenable	853	Secure	Good	Private owned	Low
6	25	70	Seret Pally (S.C.-070)	Tenable	424	Secure	Good	Private owned	Low
7	29	82	Hindustan Colony(S.C.-082)	Tenable	464	Secure	Good	Private owned	Low
8	29	84	Naba Pally(S.C.-084)	Tenable	389	Secure	Good	Private owned	Low
9	31	94	Subhashpur(S.C.-094)	Tenable	280	Secure	Good	Private owned	Low
10	32	97	Chasipara(S.C.-097)	Tenable	164	Secure	Good	Private owned	Low
11	33	102	Durga Nagar(S.C.-102)	Tenable	137	Unsecure	Good	Private owned	Low
12	34	110	Badam Tala Milan Pally(S.C.-110)	Tenable	256	Secure	Good	Private owned	Low
13	34	111	Bansh Bagan(S.C.-111)	Tenable	270	Secure	Good	Private owned	Low
14	14	36	Suomeri(S.C.-036)	Tenable	198	Unsecure	Poor	Public local body	Low
15	3	3	Bazar Road(S.C.-003)	Tenable	543	Secure	Good	Private owned	Low
16	7	8	Kantadanga(S.C.-008)	Tenable	926	Secure	Good	Private owned	Low
17	10	17	Satyajit Pally(S.C.-017)	Tenable	292	Secure	Good	Private owned	Low
18	15	40	Netaji Pally(S.C.-040)	Tenable	178	Secure	Good	Private owned	Low
19	20	59	Sundia(S.C.-059)	Tenable	214	Secure	Good	Private owned	Low
20	24	67	Battala Ramkrishna Pally(S.C.-067)	Tenable	561	Secure	Good	Private owned	Low
21	32	96	Bijay Nagar(S.C.-096)	Tenable	1186	Secure	Good	Private owned	Low
22	32	99	Mangal Pandey Pally(S.C.-099)	Tenable	139	Secure	Good	Private owned	Low
23	32	100	Paler Math(S.C.-100)	Tenable	266	Secure	Good	Private owned	Low
24	33	103	Hatath Colony(S.C.-103)	Tenable	447	Secure	Good	Private owned	Low
25	33	105	Jay Chandi Tale(S.C.-105)	Tenable	104	Secure	Good	Private owned	Low

  
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26	33	106	Kamar Pukur Dhar(S.C.-106)	Tenable	287	Secure	Good	Private owned	Low
27	33	108	Sarat Pally (S.C.-108)	Tenable	423	Secure	Good	Private owned	Low
28	35	116	Abantipur(S.C.-116)	Tenable	860	Secure	Good	Private owned	Low
29	6	5	Ambagan(S.C.-005)	Tenable	992	Secure	Good	Private owned	Low
30	32	101	Purba Para(S.C.-101)	Tenable	111	Secure	Good	Private owned	Low
31	33	104	Hatpukur Colony(S.C.-104)	Tenable	225	Secure	Good	Private owned	Low
32	27	77	Gurdah(S.C.-077)	Tenable	1829	Secure	Good	Private owned	Low
33	29	83	Milangar Udyanagar(S.C.-083)	Tenable	388	Secure	Good	Private owned	Low
34	30	86	Nayan Pally(S.C.-086)	Tenable	412	Secure	Good	Private owned	Low
35	30	90	Uchhegarh(S.C.-090)	Tenable	205	Secure	Good	Private owned	Low
36	31	91	Balishkhana(S.C.-091)	Tenable	315	Secure	Good	Private owned	Low
37	31	92	Fakir Para (North)(S.C.-092)	Tenable	180	Secure	Good	Private owned	Low
38	31	93	South Narayan Pur(S.C.-093)	Tenable	365	Secure	Good	Private owned	Low
39	33	109	Subhaspur(S.C.-109)	Tenable	393	Secure	Good	Private owned	Low
40	34	112	Fakir Para (South) (S.C.-112)	Tenable	142	Secure	Good	Private owned	Low
41	34	113	Hatat Sukanta Pally(S.C.-113)	Tenable	224	Secure	Good	Private owned	Low
42	35	115	64 Pally(S.C.-115)	Tenable	890	Secure	Good	Private owned	Low
43	35	117	Jagan Nath Colony(S.C.-117)	Tenable	278	Secure	Good	Private owned	Low
44	35	119	Sree Rampur(S.C.-119)	Tenable	297	Secure	Good	Private owned	Low
45	35	120	Sthirpara(S.C.-120)	Tenable	1121	Secure	Good	Private owned	Low
46	20	58	Mula Zore(S.C.-058)	Tenable	324	Secure	Poor	Private owned	Low
47	23	64	Netaji Nagar Coloney(S.C.-064)	Tenable	771	Secure	Poor	Private owned	Low
48	28	80	Rahuta Purba Para(S.C.-080)	Tenable	770	Secure	Poor	Private owned	Low
49	28	81	Rahuta(S.C.-081)	Tenable	699	Secure	Poor	Private owned	Low
50	10	18	Sundiya Para(S.C.-018)	Tenable	419	Unsecure	Good	Private owned	Low
51	15	38	Begun Khet(S.C.-38)	Tenable	288	Unsecure	Good	Private owned	Low
52	1	1	Baburani Para(S.C.-001)	Tenable	358	Unsecure	Good	Private owned	Low
53	8	11	Naya Bazar(S.C.-011)	Tenable	4270	Unsecure	Good	Private owned	Low

54	9	13	B L 07(S.C.-013)	Tenable	331	Unsecure	Good	Private owned	Low
55	9	14	B L 19(S.C.-014)	Tenable	440	Unsecure	Good	Private owned	Low
56	9	15	B L 20(S.C.-015)	Tenable	677	Unsecure	Good	Private owned	Low
57	11	20	B L 08(S.C.-020)	Tenable	142	Unsecure	Good	Private owned	Low
58	11	21	B L 09(S.C.-021)	Tenable	410	Unsecure	Good	Private owned	Low
59	12	27	B L 13(S.C.-027)	Tenable	573	Unsecure	Good	Private owned	Low
60	12	29	Panchananta la(S.C.-029)	Tenable	274	Unsecure	Good	Private owned	Low
61	13	31	21 No Goli(S.C.-031)	Tenable	681	Unsecure	Good	Private owned	Low
62	13	32	Barui Para(S.C.-032)	Tenable	1211	Unsecure	Good	Private owned	Low
63	13	33	Goyala Para(S.C.-033)	Tenable	585	Unsecure	Good	Private owned	Low
64	14	34	Manikpir(S.C.-034)	Tenable	2463	Unsecure	Good	Private owned	Low
65	22	62	Santi Niwas Pally(S.C.-062)	Tenable	125	Unsecure	Good	Private owned	Low
66	22	63	Uttar Para(S.C.-063)	Tenable	1263	Unsecure	Good	Private owned	Low
67	24	68	Rabindra Pally(S.C.-068)	Tenable	201	Unsecure	Good	Private owned	Low
68	32	98	Dule Para(S.C.-098)	Tenable	241	Unsecure	Good	Private owned	Low
69	7	7	Kantadanga Road(S.C.-007)	Tenable	1548	Unsecure	Good	Private owned	Low
70	18	55	Rabindra Pally(S.C.-055)	Tenable	645	Unsecure	Good	Private owned	Low
71	19	56	Bankim Nagar(S.C.-056)	Tenable	1350	Unsecure	Good	Private owned	Low
72	21	60	Pramod Nagar(S.C.-060)	Tenable	786	Unsecure	Good	Private owned	Low
73	26	71	Chak Guradah Ram Mohan Pally(S.C.-071)	Tenable	99	Unsecure	Good	Private owned	Low
74	26	73	Jana Para(S.C.-073)	Tenable	123	Unsecure	Good	Private owned	Low
75	26	74	Chak Guradah C.M.D Bagan(S.C.-074)	Tenable	270	Unsecure	Good	Private owned	Low
76	26	75	Palpara Deba Sree Pally(S.C.-075)	Tenable	138	Unsecure	Good	Private owned	Low
77	26	76	Ukil Bagan(S.C.-076)	Tenable	189	Unsecure	Good	Private owned	Low
78	27	78	Malakarpara(S.C.-078)	Tenable	452	Unsecure	Good	Private owned	Low
79	30	85	Mitrapara(S.C.-085)	Tenable	559	Unsecure	Good	Private owned	Low
80	30	87	Ram Krishna Pally(S.C.-087)	Tenable	272	Unsecure	Good	Private owned	Low



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81	30	88	Satadal Pally(S.C.-088)	Tenable	573	Unsecure	Good	Private owned	Low
82	31	95	Kewtia Palpara(S.C.-095)	Tenable	375	Unsecure	Good	Private owned	Low
83	15	41	27 No Railway Siding(S.C.-041)	Tenable	74	Unsecure	Poor	Railways	Low
84	28	79	B.R.S.(S.C.-079)	Tenable	1326	Unsecure	Poor	State Government	Low
85	11	22	B L 10(S.C.-022)	Tenable	703	Unsecure	Poor	Private owned	Medium
86	12	26	Bakar Muhalla(S.C.-026)	Tenable	999	Unsecure	Poor	Private owned	Medium
87	18	51	Meghna More (North)(S.C.-051)	Tenable	814	Unsecure	Poor	Private owned	Medium
88	8	9	Chalta Road(S.C.-009)	Tenable	542	Unsecure	Poor	Private owned	Low
89	9	12	B L 06(S.C.-012)	Tenable	1685	Unsecure	Poor	Private owned	Low
90	11	23	B L 11(S.C.-023)	Tenable	285	Unsecure	Poor	Private owned	Low
91	11	24	B L 12(S.C.-024)	Tenable	536	Unsecure	Poor	Private owned	Low
92	11	25	Bl-17(S.C.-025)	Tenable	566	Unsecure	Poor	Private owned	Low
93	12	28	Kela Bagan(S.C.-028)	Tenable	889	Unsecure	Poor	Private owned	Low
94	14	35	Sugia Para-Ward(14)(S.C.-035)	Tenable	1336	Unsecure	Poor	Private owned	Low
95	16	43	B L 01(S.C.-043)	Tenable	1551	Unsecure	Poor	Private owned	Low
96	16	44	B L 02(S.C.-044)	Tenable	1841	Unsecure	Poor	Private owned	Low
97	17	45	B L 11(S.C.-045)	Tenable	2076	Unsecure	Poor	Private owned	Low
98	17	46	Guptar Bagan(S.C.-046)	Tenable	2370	Unsecure	Poor	Private owned	Low
99	18	48	B L 09(S.C.-048)	Tenable	226	Unsecure	Poor	Private owned	Low
100	18	50	Meghna More (South)(S.C.-050)	Tenable	428	Unsecure	Poor	Private owned	Low
101	18	53	Naya Bazar(S.C.-053)	Tenable	209	Unsecure	Poor	Private owned	Low
102	18	54	Rustam Gurmti(S.C.-054)	Tenable	500	Unsecure	Poor	Private owned	Low
103	33	107	New Town(S.C.-107)	Tenable	88	Unsecure	Poor	Private owned	Low
104	15	37	1 No. Kebin Road(S.C.-37)	Tenable	272	Unsecure	Poor	Private owned	Low
105	15	39	Sugia Para - Ward (15) (S.C.-39)	Tenable	171	Unsecure	Poor	Private owned	Low
106	19	57	Surpara Road(S.C.-057)	Tenable	920	Unsecure	Poor	Private owned	Low
107	21	61	Sastri Nagar(S.C.-061)	Tenable	561	Unsecure	Poor	Private owned	Low
108	23	66	Purbasha(S.C.-066)	Tenable	502	Unsecure	Poor	Private owned	Low
109	26	72	House Khana(S.C.-072)	Tenable	273	Unsecure	Poor	Private owned	Low



110	30	89	Uchchegarh Uttarpara(S. C.-089)	Tenable	100	Unsecure	Poor	Private owned	Low
111	34	114	Manasha Colony(S.C.- 114)	Tenable	500	Unsecure	Poor	Private owned	Low
112	35	118	Kundur Bagan(S.C.- 118)	Tenable	111	Unsecure	Poor	Private owned	Low
113	2	2	Kumar Para Burning Ghat(S.C.- 002)	Tenable	795	Unsecure	Good	Private owned	Low
114	5	4	Goyala Para- li(S.C.-004)	Tenable	778	Unsecure	Good	Private owned	Low
115	8	10	Kankinara Jute Mill Line(S.C.- 010)	Tenable	2039	Unsecure	Poor	Private owned	Low
116	12	30	Anglo India Middle Mill Line(S.C.- 030)	Tenable	486	Unsecure	Poor	Private owned	Low
117	16	42	Alliance Jute Kuli Line(S.C.- 042)	Tenable	1120	Unsecure	Poor	Private owned	Medium
118	18	47	Auckland Jute Mill Line(S.C.- 047)	Tenable	1155	Unsecure	Poor	Private owned	Low
119	18	49	Circus Jute Mill Line(S.C.- 049)	Tenable	178	Unsecure	Poor	Private owned	Low
120	18	52	Meghnas Jute Mill Line(S.C.- 052)	Tenable	785	Unsecure	Good	Private owned	Medium

  
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### 1.5 Assessment of Present Status of Slums

(include brief description of slums in the ULB including growth patterns, status of notified/non-notified slums, ward wise slum details and brief slum profile.

The various indicators and their score to assess infrastructure deficiency are provided in the table below:

#### Indicators for assessing Infrastructure deficiency

No.	Indicators	Score		
		1	2	3
1.	Water: Percentage of Households without Individual tap	0-30	30-60	60-100
2.	Sanitation: Percentage of Households without access to	0-30	30-60	60-100
3.	Drains: Whether the slum is connected, not connected or partially connected to city wide storm water drainage system	Connected	Partially Connected	Not Connected
4.	Roads: Percentage of Households with Non Motorable	0-30	30-60	60-100

Note: 0-30 means less than equal to 30, 30-60 means more than 30 but not more than 60, 60-100 means more than 60

Status of all the 120 slums in terms of infrastructure is listed in Annexure-B9 and the deficiency parameters are analysed as follows:

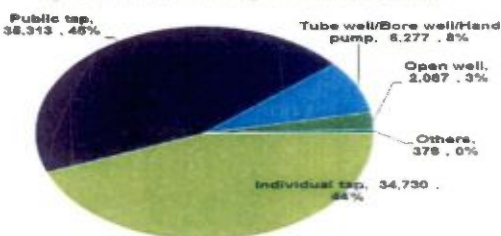
#### Water

The slum households of Bhatpara have reasonably good access to drinking water, either from individual taps or from public taps. The figure alongside reveals that:

- Around 44% of the total slum households (34,730 in number), have individual tap connection in their own premises. Out of these, majority of the households (30,000 in total) stay in notified slums,

- Around 45% of slum households are dependent on public tap and about 8% in aggregate, resort to Tube well/Bore well/Hand pump for collection of drinking water.

Figure 16 Sources of Drinking water available in Slums

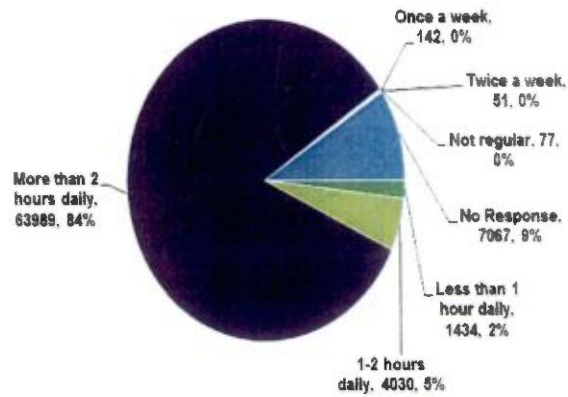


  
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Remaining 3% households (2450 in number) are dependent on open well, tank/pond, canal, water tanker etc.

Figure 17 Duration of Water Supply in Slums



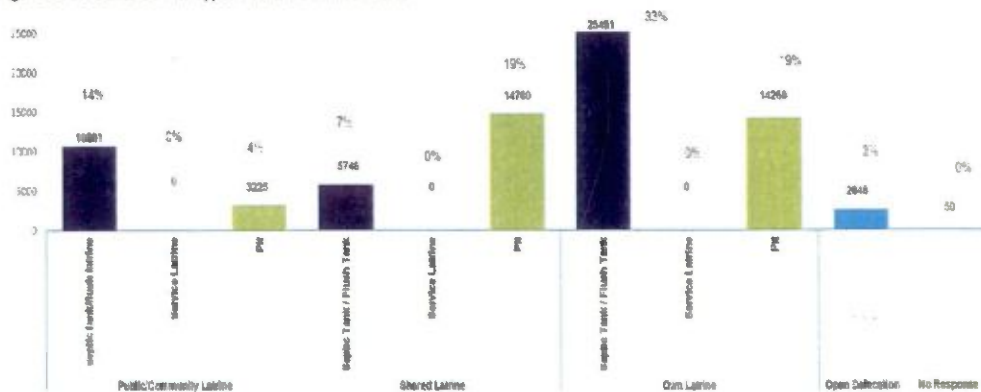
Majority of the slum households in Bhatpara have a decent duration of water supply with about 84% of the slum households having water supply for more than two hours. Only 2% of slum households, are reported to have access to drinking water for less than one hour daily. Only 193 HHs receive water only once or twice a week.

37 slums have a score of "1", that is, slums with less than 30% households having individual tap connection. Number of slums getting scores of "2" and "3" are 37 and 46 respectively indicating around 38% slums have more than 60% households without individual tap connection.

## Sanitation

In terms of access to sanitation facilities, 33% of the households have their own latrines, 7% households have shared latrines and 14% avail community toilets. Figure below shows households living in slums of Bhatpara have a pit inside their premises with their share accounting for 19% of total slum households. A total of 42% of the population avail these pits. A small percentage of about 3% households resort to open defecation.

Figure 18 : Distribution of Types of Sanitation Facilities



  
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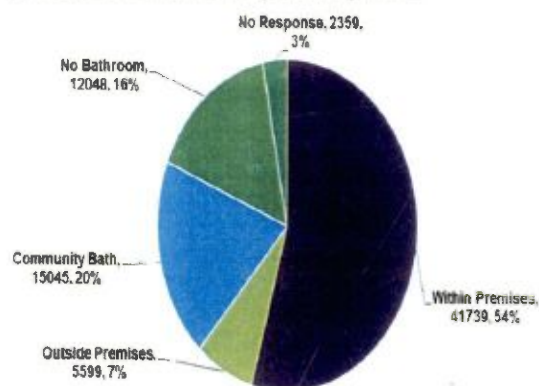
Majority of the slums (66 slums) have been given the score "1", that is, slums having less than 30% households without access to individual latrine. Moreover, of the 66 slums given the score of "1", it is observed that 31 slums have less than 10% households who do not have access to latrine facilities inside their premises. In comparison, out of the 32 slums having more than 60% households without individual latrine facilities, in 9 slums more than 90% households do not have facilities inside their houses. Significant among them include i) Alliance Jute Kuli Line (S.C.-042), ii) Auckland Jute Mill Line(S.C.-047), iii) Circus Jute Mill Line(S.C.-049), iv) Kankinara Jute Mill Line(S.C.-010) etc.

### Access to Bathroom facility

In terms of access to bathroom facilities, 54% of the households have bathrooms within their premises, of which more than 80% households are from notified slums

16% households do not have bathrooms within their premises, of which 71% households are from notified slums. Significant slums coming under this category are Naya Bazar (S.C.-011), B L.06(S.C.-012), B L.11 (S.C.-045), Uttar Para(S.C.-063) etc.

Figure 19 Distribution of Availability of Sanitary Services



### Drains

The lack of proper drainage system is a critical issue in Bhatpara. The topography of the town varies mostly based on the proximity to the river and also the large number of ponds on the eastern part and a canal cutting across the town. All these above factors contribute to the drainage problems of Bhatpara. The following table shows status of storm water drainage connectivity of the slums.

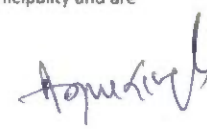
Table 23 Status Connectivity of Drains in Slums

Category	Connectivity to City-wide Storm-water Drainage System						% Slums	% total HHs
	Notified Slums			Non-Notified Slums				
	No. of Slums	No. of HHs	Population	No. of Slums	No. of HHs	Population		
Fully Connected	1	428	1850	0	0	0	1%	1%
Partially Connected	58	45,451	1,77,715	17	10,890	42,128	63%	73%
Not Connected	30	12,793	49,513	14	7,228	28,070	37%	26%
TOTAL	89	58,672	2,29,078	31	18,118	70,198	100%	100%

Only 1% of the slums HHs are fully connected to the drainage system, while 37% slums with 20,000 households are not connected to drainage system at all. 63% slum are partially connected to the drainage system, covering more than 56,000 households

Most of the slums which are not connected to the drainage system are located on the Eastern Fringe of the municipality and are close to the Kalyani Expressway

  
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On account of absence of household level details on connectivity status to the drainage system in slums, partially connected slums have been scored "2" for all the slums falling under this category.

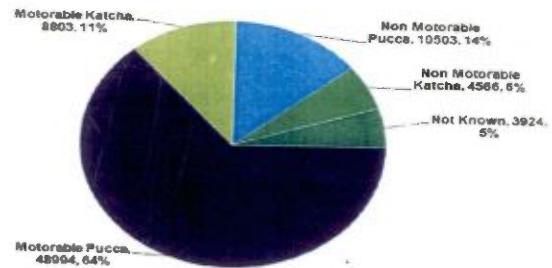
### Roads

One of the most important physical criteria that determine the condition of a slum is the condition of roads. From the figure alongside, following key things can be ascertained

Figure 20: Distribution of Roads in Slums

About 64% households in slums have access to motorable pucca road and another 14% households have access to non-motorable pucca road

17% of the slum households have no direct access to pucca road.



76 slums (63% of total) have scored "1" as they have less than 30% Households in their slums with access to Non Motorable Katcha and Non Motorable Pucca Roads, of which 35 slums have less than 5% households. 56 slums have less than 10% households with access to Non Motorable Katcha and Non Motorable Pucca Roads. 10 slums have scored "3" as they have more than 60% households with access to Non Motorable Katcha and Non Motorable Pucca Roads.

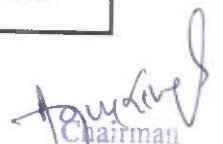
### 1.5.1 Slum profile and its Location

(including slum dwelling unit density, land values, land overshoot and tenure status of the slums)

Table 17 Distribution of Slums with reference to Physical Location

Physical Location of Slums		Notified Slums		Non-Notified Slums		Physical Location wise slum in terms of total Number of Slums	Physical Location wise slum in terms of total HHs
		No. of Slums	No. of HHs	No. of Slums	No. of HHs		
1.	Along Railway line						
2.	Along River/Water Body						
3.	Along Major Transport Alignment						
4.	Along Other Drains						
5.	Others (Non-Hazardous or Non-Objectionable)	89	58672	31	18118	100%	100%
	Total Slums	89	58672	31	18118	100%	100%

  
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Source: GIS data and MIS data validation report

All the 120 slums of Bhatpara are found to be located on non-hazardous or Non-objectionable location. Slums in others (non-hazardous or non-objectionable categories include :

### 1.5.2. Summary of Findings of Demand Survey

List attached

#### 1.5.3. Broad infrastructure status in slum areas

(It shall describe broad slum infrastructure status and future program related to infrastructure development where slum will be benefited)

The lack of proper drainage system is a critical issue in Bhatpara. The topography of the town varies mostly based on the proximity to the river and also the large number of ponds on the eastern part and a canal cutting across the town. All these above factors contribute to the drainage problems of Bhatpara. The following table shows status of storm water drainage connectivity of the slums.

**Table 24 Status Connectivity of Drains in Slums**

Category	Connectivity to City-wide Storm-water Drainage System						% Slums	% total HHs
	Notified Slums			Non-Notified Slums				
	No. of Slums	No. of HHs	Population	No. of Slums	No. of HHs	Population		
Fully Connected	1	428	1850	0	0	0	1%	1%
Partially Connected	58	45,451	1,77,715	17	10,890	42,128	63%	73%
Not Connected	30	12,793	49,513	14	7,228	28,070	37%	26%
TOTAL	89	58,672	2,29,078	31	18,118	70,198	100%	100%

From the table above we can observe that:

Only 1% of the slums HHs are fully connected to the drainage system, while 37% slums with 20,000 households are not connected to drainage system at all. 63% slum are partially connected to the drainage system, covering more than 56,000 households

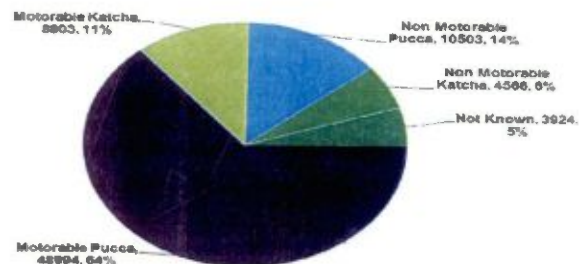
Most of the slums which are not connected to the drainage system are located on the Eastern Fringe of the municipality and are close to the Kalyani Expressway.

On account of absence of household level details on connectivity status to the drainage system in slums, partially connected slums have been scored "2" for all the slums falling under this category.

#### Roads

One of the most important physical criteria that determine the condition of a slum is the condition of roads. From the figure alongside, following key things can be ascertained

About 64% households in slums have access to motorable pucca road and another 14% households have access to non-motorable pucca road



17% of the slum households have no direct access to pucca road.

76 slums (63% of total) have scored "1" as they have less than 30% Households in their slums with access to Non Motorable Katcha and Non Motorable Pucca Roads, of which 35 slums have less than 5% households. 56 slums have less than 10% households with access to Non Motorable Katcha and Non Motorable Pucca Roads. 10 slums have scored "3" as they have more than 60% households with access to Non Motorable Katcha and Non Motorable Pucca Roads.



### 1.6. Tenability Analysis

(Categorising all slums in the ULB as Tenable and untenable slums)

- **Tenable slums**

The tenability analysis based on the physical location, land use and flood prone status of the slum concluded that all the 120 slums were tenable. Slums which were close to the railway lines, major roads or waterbodies were found have low density and would be tenable through redensification measures.

### Tenability Assessment

Having assessed the status of slums with respect to physical location and land use characteristics, all 120 listed slums in Bhatpara Municipality are analysed with regard to their tenability in order to determine prioritisation of slums and slum development options i.e. whether planned service provision will be undertaken through in-situ up-gradation / redevelopment or resettlement. The objective of this exercise is to classify slums as Tenable or Untenable and any slums which are classified as Semi-Tenable were further analysed to classify them as Tenable or Untenable. HFA guidelines prescribe the following criteria for classifying the slums as tenable, semi-tenable or un-tenable are provided in the box below:

#### Tenable Slums:

1. All slum pockets located on non-objectionable and non-hazardous sites as obtained from NBO formats.
2. As per "Model Property Rights to Slum Dwellers Act, 2011"- All slums settlements which do not fall within the definition of untenable settlements are considered as tenable and fit for in-situ redevelopment / improvement.

#### Semi Tenable Slums

All slum pockets located on sites which are earmarked for non-residential uses as per Master Plan are categorized as semi-tenable for further analysis and review. Finally, the semi tenable slums are either is categorized as Tenable or Untenable.

#### Untenable Slums

(i) As per NBO format, slum pockets in the following locations **may be** considered as untenable  
Major storm water drains, Other drains, Railway line, Major transport alignment, River or water bodies Bank, River or water bodies Bed and others (hazardous or objectionable) including high tension lines.  
However, slums on other drains may be examined for being included in the category of semi tenable or tenable  
Slums depending on the exact location of the slum and the possibility of in-situ development through sustainable engineering solutions

On the basis of the above principles, it has been found that all the 120 slums in Bhatpara are tenable. The main criteria considered for tenability assessment are:

**Land Use:** Comparison of the existing Land Use with the LUDCP reveals that the land use in confirmation with the LUDCP.

**Flooding:** Sixty Nine slums in Bhatpara are prone to flooding for more than 15 days and can be made tenable through partial relayout, densification of certain pockets and sustainable engineering solutions including slope readjustment, augmenting the current drainage capacity and laying down of new distribution network.

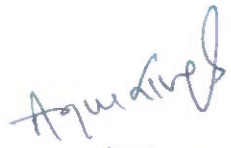
Accordingly, all the 120 slums in Bhatpara are considered to be tenable and are considered for prioritisation. The following map represents the location of the tenable slums in Bhatpara

### 3. Identification of four Options available under Mission

(Use table I and II of Guidelines)

- "In-situ" Slum Redevelopment using land as Resource( include viability analysis)
- Credit-Linked Subsidy Scheme (CLSS)
- Affordable Housing in Partnership (AHP)
- Beneficiary-led individual house construction or enhancement

  
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## 4. Intervention Plan and Central assistance.

(Use Table III-V in HFAPoA guidelines)

1.	Name of the State	:	West Bengal						
2.	Name of the City	:	BHATPARA						
3.	Project Name	:	Housing For All						
4.	Project Code *	:	19801695014						
5.	State Level Nodal Agency	:	SUDA						
6.	Implementing Agency/ ULB	:	BHATPARA MUNICIPALITY						
7.	Project Cost (Rs. in Lakhs)	:	1169.87						
8.	Date of approval by State Level Sanctioning and Monitoring Committee(SLSMC)								
9.	(i) No. of Beneficiaries ( New Construction)		Gen	SC	ST	OBC	Minority	Total	
			196	63	2	5	23	289	
10.	(i) No. of Beneficiaries ( New Construction)	:	289						
11.	i) GoI grant required (Rs. 1.5 lakh per eligible Beneficiary) (Rs. In Lakhs)	:	433.5						
	ii) State grant, if any (Rs. In Lakhs)	:	610.53						
	iii) ULB grant, if any (Rs. In Lakhs)	:	53.14						
	iv) Beneficiary Share (Rs. In Lakhs)	:	72.25						
	v) Total (Rs. In Lakhs)	:	1169.42						

## 5. Institutional Arrangements for Implementation of Development Options

(Proposed Institutional framework at State and ULB level and Their Roles and Responsibilities)

## Formulation of Slum development options

After assessing the infrastructure deficiency, vulnerability and tenure status as a part of the slum prioritisation exercise, following slum development models have been identified.

**In-situ slum up-gradation:** In this model more emphasis is on in-situ housing up gradation and provision of basic services: i.e., water and sanitation, drainage, roads, street lighting, footpaths, and community facilities. This model involves re- adjustment of existing units to ensure optimum use of land and releasing surplus land for common facilities as part of the densification process of the slums.

**In-situ slum redevelopment:** This model involves partial/whole redevelopment of a slum in the same location but in different housing units. It will involve the demolition of slum dwellers homes in untenable pockets.

The above development options were further analyzed taking into consideration ownership of land, land value and density to develop the slum specific models and identify the PPP options.

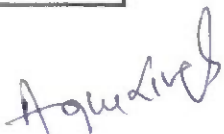
  
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Accordingly, the following development models have been worked out for all the 120 slums of Bhatpara.

S.No	Development Model	Tenure	Housing	Infrastructure*	Land Ownership	Land Value	Density	Code	Number of Slums
1	In-situ upgradation	Secure	Good	Good				ISD-1	14
2	In-situ upgradation with focus on Infrastructure	Secure	Good	Poor	Private	High	Low	ISD-2	3
3	In-situ upgradation with partial redevelopment	Secure	Good	Poor	Private	Low	Low	ISD-3	14
4	In-situ redevelopment with land sharing and with incentive FSI or TDR	Secure	Poor	Poor	Private	Low	Low	ISD-4	4
5	In-situ redevelopment with tenure regularisation/land sharing	Insecure	Good	Good	Private	Low	Low	ISD-5	2
6	In-situ redevelopment and land sharing with owner	Insecure	Good	Poor	Private	High	Low	ISD-6	17
7	In-situ redevelopment and land sharing with owner	Insecure	Good	Poor	Private	Low	Low	ISD-7	14
8	In-situ redevelopment with densification	Insecure	Poor	Poor	Public	Low	Low	ISD-8	2

  
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9	In-situ redevelopment with incentive FSI or TDR	Insecure	Poor	Poor	Private	High	Medium	ISD-9	3
10	In-situ redevelopment with incentive FSI or TDR	Insecure	Poor	Poor	Private	High	Low	ISD-10	16
11	In-situ redevelopment	Insecure	Poor	Poor	Private	Low	Low	ISD-11	9
12								Delisting	13
13								Pilot	1
14								PPP/AHP	8
15	Continue convergence with other national and state level programmes for addressing infrastructure gaps that may arise								
	Total								120

**Note:**

As only 1 slum is connected fully to city wide drainage system, infrastructure assessment for the purpose of slum development has been worked out without taking connection to city wide drainage system into consideration. .

Good Housing means that slum has more than 75% of pucca and semi-pucca houses with minimum 25% pucca houses

Secured tenure for the purpose of slum development means that at least 50% of slum households have patta and possession certificates

For the purpose of slum development options infrastructure is considered to comprise of water, sanitation and roads

Land value of above Rs 5 lakh per cottah as per the data from the municipality is taken as high other land value is assumed to be low

Household density of more than 500 DU/ha is taken as high, 350-500 DU/ha is taken as medium as and less than 350 DU is assumed to be low.

The above slum development models can be explained as follows:

**I. ISD-1:** This model is applied in slums which have a fair percentage of semi-pucca houses (12%-62%) and small percentage of katcha houses (0-17%). As all of these slums have secured tenure, there will be incremental upgradation of existing houses and construction of few new houses, wherever applicable.

**II. ISD-2:** This model is applied in slums which have a very low percentage of katcha houses (1%-5%) with poor infrastructure. The infrastructure will be provided in all these slums with housing upgradation and construction of few new houses, wherever applicable.

**III. ISD-3:** This model is applied in slums which have poor infrastructure with katcha houses (0-24%). The infrastructure will be provided in all these slums with housing upgradation and construction of few new houses.   
 \* Without access to city wide drainage system

**IV. ISD-4:** This model is applied in slums which have high percentage of katcha houses (5-42%) and very poor infrastructure. Few slum pockets for these will need to be redeveloped. As the land-holding are small with encroached and rental households (27-40%), land sharing model with land pooling for less than 255 pucca houses may be followed. Landowners of slum plots will be provided with incentives such as higher FSI and TDR enabling them to surrender part of the land to slum dwellers so that they have the legal title, but still be able to build as much as they would have on the full plot.

**V. ISD-5:** This model is applied in slums which have good infrastructure and housing and a high percentage of households on encroached land or rented houses. These slums shall be redeveloped by adopting innovative methods including land sharing and tenure regularization. Government of West Bengal is in a process to formulate a scheme so as to provide long term inheritable lease rights to urban poor.

**VI. ISD-6 and ISD-7:** This model is applied in slums with good housing but poor infrastructure. These slums will be redeveloped by land sharing model with incentives.

**VII. ISD-8:** These slums are on public land with low density along with poor housing and infrastructure and these may be considered for densification to free the maximum land. In addition, private developer may be called for development of these slums through an open-bidding process wherein the developer offering the maximum number of EWS/LIG flats free of cost to the ULB, will be awarded the project.

**VIII. ISD-9 and ISD-10:** This model is applied in slums with poor housing and poor infrastructure. Most of these slums are situated on high value land, FSI and TDR will be allowed to the owner to facilitate land sharing and reducing the cost of development. In addition, as most of these slums have a high percentage of rental households, development of rental/rent to own housing units will be carried out to the extent applicable.

**IX. ISD-11:** This model is applied on slums which are vulnerable, located on private land with poor housing and poor infrastructure and have low land value. These slums will need to be redeveloped completely.

**X. De-listing:** Thirteen slums in Bhatpara are proposed to be de-listed as they are developed slums with mostly good housing on account of various slum infrastructure projects being undertaken earlier as part of the Central Government schemes including BSUP and IHSPP and KUSP project.

**XI. Pilot Project:** 1 No. Kebin Road, Kewtia Palpara & Stirthpara slums are being taken as a pilot project under HFA (sanctioned in CSMC meeting held on September 16, 2013). Accordingly, this slum is not being considered for the slum development options

**XII. PPP/AHP:** Eight slums in Bhatpara are on old Jute Mills land which is being occupied by casual workers and other people. These slums shall be developed in partnership with the Jute Mill owners using land arbitrage models including convergence with various central government schemes such as Rajiv Rinn Yojana and Affordable housing in partnership. In addition, all these slums lie in the CI Zone which is likely to be used in future for intense commercial activities thus increasing the feasibility of PPPs.

## 6. Project Monitoring and Social audit

*(Broad description of the Project monitoring and Social audit in line with guidelines)*

### HFA Structure in West Bengal

Government of West Bengal has already laid down requisite and adequate administrative structure in line with the requirements under HFA guideline. HFA administrative structure in West Bengal can be depicted as the following:

- I. **State HFA Mission:** HFA Mission in West Bengal was created vide G.O No. ....dated .....with Hon'ble Chief Minister of West Bengal as Chairperson of the Mission. The Mission is empowered to take all overriding decision concerning land use, town planning and master planning.
- II. **State Level Sanctioning and Monitoring Committee:** SLSMC was constituted in West Bengal was created vide G.O No. ....dated February .....with Hon'ble Chief Minister of West Bengal as Chairperson of the Committee Mission. The Committee will oversee, guide, review and monitor the preparation and implementation of projects and the reforms for the cities.
- III. **Nodal Department:** Municipal Affairs Department, Government of West Bengal has been designated as the Nodal Department for Coordinating and directing the ULBs with regard to HFA. The Nodal Department shall coordinate with other state departments (PWD, Irrigation), PSU and Central Government Undertaking including Railways, Airports etc.
- IV. **Nodal Agency:** SUDA has been designated as the Nodal Agency to coordinate all the HFA activities and fund management with the Ministry of Housing and Urban Poverty Alleviation, Government of India.
- V. **Nodal SPV:** Change Management Unit, Kolkata Urban Services for Poor programme has been designated as Nodal SPV to ensure the implementation of HFA activities at ULB level and issue the operational guidelines to ULB for ensuring the implementation of Slum Free City Plan of Action.

The following figure illustrates the institutional framework

### Figure 22 State level HFA administrative structure in West Bengal

In addition, Government of West Bengal is planning to constitute a HFA advisory group constituting of eminent citizens, civil society members with proven experience in mobilizing collective action for community empowerment/slum development/reforms in urban governance. This advisory group will advise the government on and encourage mobilisation of the community, public-private partnerships and citizen's involvement in governance at grass-root level.

  
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### HFA Structure at the Bhatpara Municipality

Bhatpara Municipality shall be the nodal agency for implementation of HFAPOA and has set up a robust administrative structure for implementation. The roles and responsibilities of the key stakeholder are as follows:

I. **HFA Nodal Officer:** Asst. Engineer of the Waterworks Dept. of the Bhatpara Municipality has been designated as the HFA Nodal Officer for the Bhatpara Municipality demonstrating the commitment and willingness of the Bhatpara Municipality to implement the HFAPOA

II. **HFA Working Group:** The Municipality has appointed a team led by the Nodal officer for the preparation of the HFAPOA by coordinating with all the departments for data and assistance and monitoring the implementation of the HFA DPR underway for 1 No. Kebin Road, Kewtia Palpara & Sthirpara Slum.

III. **Field Assistants:** The CDS associated with the Municipality are involved in assisting the Survey agency and the HFAPOA preparation team in any interaction that would be required by conducting FGDs.

In addition, Bhatpara Municipality shall also work closely with other State level agencies for implementation of HFAPoA. The roles and responsibilities of the various agencies for implementation of HFAPoA shall be as follows:

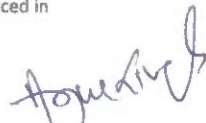
**Table 26: Role and Responsibility of different agencies**

Name of the Agency	Preparation of HFAPoA	Affordable Housing Policy and Reforms	Community participation	Planning-Land & Zoning	Planning - Design	Implementation	Reform/Grievance Redressal	Post Implementation
Bhatpara Municipality	✓		✓	✓	✓	✓	✓	✓
Kolkata Metropolitan Development Authority		✓		✓		✓		
Change Management Unit, Municipal Affairs Department	✓	✓				✓		
Town and Country Planning Office, Urban Development Department		✓		✓		✓		
MED					✓	✓		
WBHB					✓	✓		✓
NGOs	✓		✓		✓	✓		✓
Slum Community/CBOs	✓		✓		✓	✓		✓

### 7. Conclusion

With an objective to ascertain the impact of the above two housing finance schemes currently operating in slums of Bhatpara Municipality, number of focus group discussions has been conducted involving slum communities during validation of annexure-I slum MIS data. Based on the feedbacks received from slum residents in respect of the benefits and constraints faced in accessing housing finance, following points have been put together to summarise them all:

  
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**Constraints:**

**1. Limited access to information:** Most of the slum dwellers are not aware of the Schemes implemented by the Government or the programme routed through Banks. Hence, the schemes intended for the targeted beneficiaries do not reach whenever and wherever required.

**2. Authorisation issue:** Banks don't extend loan unless the loan application is supported by an NoC issued by the PWD department of the municipality.

**3. Lesser focus on Priority sector lending:** Despite the existence of the schemes, sanction of loan for EWS and Slum Dwellers is not priority of the banks. Banks show relatively lesser interest in giving loans to slum dwellers or economic weaker section leading to delay in getting loan

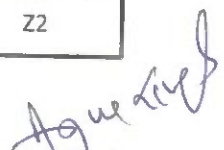
**4. Ownership right is the foremost criteria for availing loan:** Households not having any legal documents are not eligible to apply for loan from Banks.

**Lack of handholding support:** As the lending procedure involves lots of paper work and requires communicating with bank officials during the process, lack of handholding support in facilitating the process on their behalf delays or discontinues the process at times

**Annexure B-4 Distribution of slums with reference to Land Use and Land Value**

Sl. No	Name of the slum	Land Use	Area of Slum (in Sq. Km)	Land Value Zones
1	Baburani Para(S.C.-001)	Residential	0.07	Z4
2	Kumar Para Burning Ghat(S.C.-002)	Residential	0.08	Z4
3	Bazar Road(S.C.-003)	Residential	0.11	Z4
4	Goyala Para-Ii(S.C.-004)	Residential	0.12	Z4
5	Ambagan(S.C.-005)	Residential	0.31	Z4
6	Padma Pukur Road(S.C.-006)	Residential	0.27	Z4
7	Kantadanga Road(S.C.-007)	Residential	0.13	Z2
8	Kantadanga(S.C.-008)	Residential	0.18	Z4
9	Chalta Road(S.C.-009)	Residential	0.02	Z4
10	Kankinara Jute Mill Line(S.C.-010)	Industry-Residential	0.1	Z4
11	Naya Bazar(S.C.-011)	Residential	0.14	Z4
12	B L.06(S.C.-012)	Residential	0.06	Z4
13	B L.07(S.C.-013)	Residential	0.02	Z4
14	B L.19(S.C.-014)	Residential	0.02	Z4
15	B L-20(S.C.-015)	Residential	0.08	Z4
16	Ramnagar East(S.C.-016)	Residential	0.27	Z1
17	Satyajit Pally(S.C.-017)	Residential	0.08	Z2
18	Sundiya Para(S.C.-018)	Residential	0.07	Z2

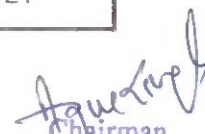
  
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19	Adibasi Para(S.C.-019)	Industry-Residenti	0.08	Z1
20	B L.08(S.C.-020)	Residenti al	0.01	Z4
21	B L.09(S.C.-021)	Residenti al	0.03	Z4
22	B L.10(S.C.-022)	Residenti al	0.02	Z4
23	B L.11(S.C.-023)	Residenti al	0.01	Z4
24	B L.12(S.C.-024)	Residenti al	0.03	Z4
25	Bl-17(S.C.-025)	Residenti al	0.03	Z4
26	Bakar Muhalla(S.C.-026)	Residenti al	0.03	Z4
27	B L.13(S.C.-027)	Industry-Residenti	0.08	Z4
28	Kela Bagan(S.C.-028)	Residenti al-Market	0.03	Z4
29	Panchanantala(S.C.-029)	Residenti al	0.02	Z4
30	Anglo India Middle Mill Line(S.C.-030)	Residenti al	0.07	Z4
31	21 No Goli(S.C.-031)	Residenti al	0.02	Z4
32	Barui Para(S.C.-032)	Residenti al	0.07	Z4
33	Goyala Para (S.C.-033)	Residenti al	0.03	Z4
34	Manikpir(S.C-034)	Residenti al	0.17	Z4
35	Sugia Para-Ward(14)(S.C.-035)	Residenti al	0.05	Z4
36	Suormari(S.C-036)	Residenti al	0.02	Z4
37	1 No. Kebin Road(S.C.-37)	Residenti al	0.1	Z2
38	Begun Khet(S.C.-38)	Residenti al	0.05	Z2
39	Sugia Para - Ward (15) (S.C.-39)	Residenti al	0.05	Z2
40	Netaji Pally(S.C.-040)	Residenti al	0.04	Z2
41	27 No Railway Siding(S.C.-041)	Residenti al	0.01	Z2
42	Alliance Jute Kuli Line(S.C.-042)	Residenti al	0.03	Z4
43	B L.01(S.C.-043)	Residenti al-Market	0.07	Z4



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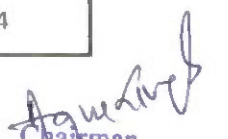


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44	B L.02(S.C.-044)	Residential	0.09	Z4
45	B L.11(S.C.-045)	Residential	0.1	Z4
46	Guptar Bagan(S.C.-046)	Residential	0.14	Z4
47	Auckland Jute Mill Line(S.C.-047)	Industry	0.04	Z4
48	B L.09(S.C.-048)	Residential	0.02	Z4
49	Circus Jute Mill Line(S.C.-049)	Industry	0.02	Z4
50	Meghna More (South)(S.C.-050)	Residential	0.04	Z4
51	Meghna More (North)(S.C.-051)	Residential	0.02	Z4
52	Meghnas Jute Mill Line(S.C.-052)	Industry	0.02	Z4
53	Naya Bazar(S.C.-053)	Residential	0.01	Z4
54	Rustam Gumti(S.C.-054)	Residential-Market	0.02	Z4
55	Rabindra Pally (S.C.-055)	Residential	0.04	Z2
56	Bankim Nagar(S.C.-056)	Residential	0.12	Z3
57	Surpara Road(S.C.-057)	Residential-Market	0.08	Z3
58	Mula Zore(S.C.-058)	Residential	0.06	Z3
59	Sundia(S.C.-059)	Residential-Market	0.04	Z3
60	Pramod Nagar(S.C.-060)	Industry-Residential	0.29	Z3
61	Sastri Nagar(S.C.-061)	Residential	0.07	Z3
62	Santi Niwas Pally(S.C.-062)	Residential	0.02	Z4
63	Uttar Para(S.C.-063)	Residential	0.11	Z4
64	Netaji Nagar Coloney(S.C.-064)	Residential	0.04	Z4
65	Satin Sen Nagar(S.C.-065)	Residential	0.2	Z4
66	Purbasha(S.C.-066)	Residential	0.11	Z2
67	Battala Ramkrishna Pally(S.C.-067)	Residential	0.02	Z4
68	Rabindra Pally(S.C.-068)	Residential	0.24	Z4

  
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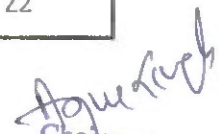
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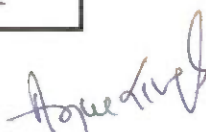
69	Nag Bagan(S.C.-069)	Residenti al	0.11	Z4
70	Sarat Pally (S.C.-070)	Residenti al	0.11	Z4
71	Chak Guradah Ram Mohan Pally(S.C.-071)	Residenti al	0.1	Z3
72	House Khana(S.C.-072)	Residenti al	0.21	Z2
73	Jana Para(S.C.-073)	Residenti al	0.21	Z3
74	Chak Guradah C.M.D Bagan(S.C.-074)	Residenti al	0.22	Z3
75	Palpara Deba Sree Pally(S.C.-075)	Residenti al	0.21	Z3
76	Ukil Bagan(S.C.-076)	Residenti al	0.05	Z3
77	Gurdah(S.C.-077)	Residenti al	0.45	Z3
78	Malakarpara(S.C.-078)	Residenti al	0.12	Z3
79	B.R.S.(S.C.-079)	Residenti al	0.21	Z2
80	Rahuta Purba Para(S.C.-080)	Agricultur al-	0.31	Z2
81	Rahuta(S.C.-081)	Residenti al	0.21	Z2
82	Hindustan Colony(S.C.-082)	Residenti al	0.12	Z2
83	Milangar Udyanagar(S.C.-083)	Residenti al	0.08	Z3
84	Naba Pally(S.C.-084)	Residenti al	0.3	Z2
85	Mitrapara(S.C.-085)	Residenti al	0.32	Z2
86	Nayan Pally(S.C.-086)	Residenti al	0.18	Z2
87	Ram Krishna Pally(S.C.-087)	Residenti al	0.28	Z2
88	Satadal Pally(S.C.-088)	Residenti al	0.37	Z2
89	Uchhegarh Uttarpara(S.C.-089)	Residenti al	0.3	Z2
90	Uchhegarh(S.C.-090)	Agricultur al-	0.2	Z2
91	Balishkhana(S.C.-091)	Residenti al	0.13	Z2
92	Fakir Para (North)(S.C.-092)	Residenti al	0.1	Z2
93	South Narayan Pur(S.C.-093)	Agricultur al-	0.15	Z2

  
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94	Subhashpur(S.C.-094)	Residenti al	0.16	Z2
95	Kewtia Palpara(S.C.-095)	Agricultu ral-	0.29	Z1
96	Bijay Nagar(S.C.-096)	Agricultu ral-	0.85	Z4
97	Chasipara(S.C.-097)	Agricultu ral-	0.13	Z4
98	Dule Para(S.C.-098)	Agricultu ral-	0.24	Z4
99	Mangal Pandey Pally(S.C.-099)	Agricultu ral-	0.07	Z4
100	Paler Math(S.C.-100)	Residenti al	0.06	Z4
101	Purba Para(S.C.-101)	Residenti al	0.09	Z4
102	Durga Nagar(S.C.-102)	Residenti al	0.03	Z4
103	Hatath Colony(S.C.-103)	Residenti al	0.21	Z4
104	Hatpukur Colony(S.C.-104)	Agricultu ral-	0.14	Z4
105	Jay Chandi Tala(S.C.-105)	Residenti al	0.08	Z4
106	Kamar Pukur Dhar(S.C.-106)	Residenti al	0.13	Z4
107	New Town(S.C.-107)	Agricultu ral-	0.18	Z4
108	Sarat Pally (S.C.-108)	Agricultu ral-	0.48	Z2
109	Subhaspur(S.C.-109)	Residenti al	0.12	Z2
110	Badam Tala Milan Pally(S.C.-110)	Residenti al	0.06	Z1
111	Bansh Bagan(S.C.-111)	Residenti al	0.07	Z2
112	Fakir Para (South) (S.C.-112)	Agricultu ral-	0.21	Z1
113	Hatat Sukanta Pally(S.C.-113)	Residenti al	0.11	Z1
114	Manasha Colony(S.C.-114)	Residenti al	0.25	Z1
115	64 Pally(S.C.-115)	Residenti al	0.26	Z1
116	Abantipur(S.C.-116)	Residenti al	0.45	Z2
117	Jagan Nath Colony(S.C.-117)	Residenti al	0.11	Z1
118	Kundur Bagan(S.C.-118)	Agricultu ral-	0.41	Z2

  
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119	Sree Rampur(S.C.-119)	Residential	0.32	Z1
120	Sthirpara(S.C.-120)	Residential	0.36	Z1

Annexure B-5A Relationship between age and population density of notified slums

	Notified Slums					
	Core Area			Fringe Area		
Age of Slum (in years)	Number of slums	Area of slums (in Sq. Km)	Density of population	Number of slums	Area of slums (in Sq. Km)	Density of population
<1	0	0	0	0	0	0
5-Jan	0	0	0	0	0	0
10-Jun	0	0	0	0	0	0
15-Nov	0	0	0	0	0	0
16-20	24	4.71	8364.33	12	2.9	7141.03
21-25	1	0.04	62501.57	0	0	0
26-30	1	0.04	69167.94	0	0	0
>30	48	4.01	38944.64	3	0.19	39300
TOTAL	89	8.8		15	3.09	

Annexure B-5B Relationship between age and population density of non-notified slums

	Non Notified Slums	Non-Notified				
	Core Area			Fringe Area		
Age of Slum (in years)	Number of slums	Area of slums (in Sq. Km)	Density of population	Number of slums	Area of slums (in Sq. Km)	Density of population
<1	0	0	0	0	0	0
5-Jan	0	0	0	0	0	0
10-Jun	0	0	0	0	0	0
15-Nov	1	0.01	27844.34	0	0	0
16-20	6	1.12	10302.68	11	2.43	4578.87
21-25	0	0	0	0	0	0
26-30	0	0	0	0	0	0
>30	8	0.48	59752.08	5	0.21	88233.33
TOTAL	15	1.61		16	2.64	

  
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## Annexure - F: Detailed list of slums

Sl. No.	Ward No.	Slum Code	Slum Name	Legal Status	No. of Households
1	1	1	Baburani Para(S.C.-001)	Notified	104
2	2	2	Kumar Para Burning Ghat(S.C.-002)	Notified	186
3	3	3	Bazar Road(S.C.-003)	Notified	128
4	5	4	Goyala Para-Ii(S.C.-004)	Notified	191
5	6	5	Ambagan(S.C.-005)	Notified	170
6	6	6	Padma Pukur Road(S.C.-006)	Notified	183
7	7	7	Kantadanga Road(S.C.-007)	Notified	124
8	7	8	Kantadanga(S.C.-008)	Notified	242
9	8	9	Chalta Road(S.C.-009)	Notified	94
10	8	10	Kankinara Jute Mill Line(S.C.-010)	Non-Notified	861
11	8	11	Naya Bazar(S.C.-011)	Non-Notified	103
12	9	12	B L.06(S.C.-012)	Notified	39
13	9	13	B L.07(S.C.-013)	Notified	217
14	9	14	B L.19(S.C.-014)	Notified	45
15	9	15	B L.20(S.C.-015)	Notified	191
16	10	16	Ramnagar East(S.C.-016)	Notified	112
17	10	17	Satyajit Pally(S.C.-017)	Notified	57
18	10	18	Sundiya Para(S.C.-018)	Notified	181
19	10	19	Adibasi Para(S.C.-019)	Non-Notified	44
20	11	20	B L.08(S.C.-020)	Notified	128
21	11	21	B L.09(S.C.-021)	Notified	32
22	11	22	B L.10(S.C.-022)	Notified	61
23	11	23	B L.11(S.C.-023)	Non-Notified	61
24	11	24	B L.12(S.C.-024)	Notified	107
25	11	25	BI-17(S.C.-025)	Notified	99
26	12	26	Bakar Muhalla(S.C.-026)	Notified	106
27	12	27	B L.13(S.C.-027)	Notified	107
28	12	28	Kela Bagan(S.C.-028)	Notified	103
29	12	29	Panchanantala(S.C.-029)	Notified	91
30	12	30	Anglo India Middle Mill Line(S.C.-030)	Non-Notified	49
31	13	31	21 No Goli(S.C.-031)	Notified	239
32	13	32	Barui Para(S.C.-032)	Notified	32
33	13	33	Goyala Para (S.C.-033)	Notified	178
34	14	34	Manikpir(S.C.-034)	Notified	89
35	14	35	Sugia Para-Ward(14)(S.C.-035)	Notified	172
36	14	36	Suormari(S.C.-036)	Non-Notified	0
37	15	37	1 No. Kebin Road(S.C.-37)	Notified	100
38	15	38	Begun Khet(S.C.-38)	Notified	20
39	15	39	Sugia Para - Ward (15) (S.C.-39)	Notified	52
40	15	40	Netaji Pally(S.C.-040)	Non-Notified	4
41	15	41	27 No Railway Siding(S.C.-041)	Non-Notified	49
42	16	42	Alliance Jute Kuli Line(S.C.-042)	Non-Notified	403
43	16	43	B L.01(S.C.-043)	Notified	106
44	16	44	B L.02(S.C.-044)	Notified	286
45	17	45	B L.11(S.C.-045)	Notified	664
46	17	46	Guptar Bagan(S.C.-046)	Notified	626
47	18	47	Auckland Jute Mill Line(S.C.-047)	Non-Notified	311
48	18	48	B L.09(S.C.-048)	Notified	147
49	18	49	Circus Jute Mill Line(S.C.-049)	Non-Notified	56
50	18	50	Meghna More (South)(S.C.-050)	Notified	43
51	18	51	Meghna More (North)(S.C.-051)	Notified	184
52	18	52	Meghnas Jute Mill Line(S.C.-052)	Non-Notified	616
53	18	53	Naya Bazar(S.C.-053)	Notified	58
54	18	54	Rustam Gumti(S.C.-054)	Notified	112
55	18	55	Rabindra Pally (S.C.-055)	Notified	20
56	19	56	Bankim Nagar(S.C.-056)	Notified	314
57	19	57	Surpara Road(S.C.-057)	Notified	157
58	20	58	Mula Zore(S.C.-058)	Notified	180
59	20	59	Sundia(S.C.-059)	Notified	43
60	21	60	Pramod Nagar(S.C.-060)	Notified	470
61	21	61	Sastri Nagar(S.C.-061)	Notified	328
62	22	62	Santi Niwas Pally(S.C.-062)	Non-Notified	63
63	22	63	Uttar Para(S.C.-063)	Non-Notified	90

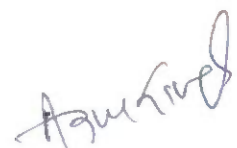
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64	23	64	Netaji Nagar Colony(S.C.-064)	Notified	377
65	23	65	Satin Sen Nagar(S.C.-065)	Notified	228
66	23	66	Purbasha(S.C.-066)	Notified	19
67	24	67	Battala Ramkrishna Pally(S.C.-067)	Notified	76
68	24	68	Rabindra Pally(S.C.-068)	Notified	59
69	25	69	Nag Bagan(S.C.-069)	Notified	97
70	25	70	Sarat Pally (S.C.-070)	Notified	46
71	26	71	Chak Guradah Ram Mohan Pally(S.C.-071)	Non-Notified	154
72	26	72	House Khana(S.C.-072)	Non-Notified	32
73	26	73	Jana Para(S.C.-073)	Non-Notified	60
74	26	74	Chak Guradah C.M.D Bagan(S.C.-074)	Notified	80
75	26	75	Palpara Deba Sree Pally(S.C.-075)	Non-Notified	118
76	26	76	Ukil Bagan(S.C.-076)	Notified	17
77	27	77	Gurdah(S.C.-077)	Notified	389
78	27	78	Malakarpara(S.C.-078)	Notified	107
79	28	79	B.R.S.(S.C.-079)	Notified	500
80	28	80	Rahuta Purba Para(S.C.-080)	Non-Notified	301
81	28	81	Rahuta(S.C.-081)	Notified	52
82	29	82	Hindustan Colony(S.C.-082)	Non-Notified	112
83	29	83	Milangar Udyanagar(S.C.-083)	Non-Notified	56
84	29	84	Naba Pally(S.C.-084)	Notified	157
85	30	85	Mitrapara(S.C.-085)	Notified	180
86	30	86	Nayan Pally(S.C.-086)	Notified	234
87	30	87	Ram Krishna Pally(S.C.-087)	Notified	34
88	30	88	Satadal Pally(S.C.-088)	Notified	101
89	30	89	Uchhegarh Uttarpara(S.C.-089)	Non-Notified	86
90	30	90	Uchhegarh(S.C.-090)	Non-Notified	170
91	31	91	Balishkhana(S.C.-091)	Non-Notified	151
92	31	92	Fakir Para (North)(S.C.-092)	Notified	69
93	31	93	South Narayan Pur(S.C.-093)	Notified	148
94	31	94	Subhashpur(S.C.-094)	Non-Notified	12
95	31	95	Kewtia Palpara(S.C.-095)	Notified	132
96	32	96	Bijay Nagar(S.C.-096)	Notified	12
97	32	97	Chasipara(S.C.-097)	Non-Notified	24
98	32	98	Dule Para(S.C.-098)	Notified	5
99	32	99	Mangal Pandey Pally(S.C.-099)	Notified	114
100	32	100	Paler Math(S.C.-100)	Notified	36
101	32	101	Purba Para(S.C.-101)	Notified	41
102	33	102	Durga Nagar(S.C.-102)	Notified	73
103	33	103	Hatath Colony(S.C.-103)	Notified	40
104	33	104	Hatpukur Colony(S.C.-104)	Notified	62
105	33	105	Jay Chandi Tala(S.C.-105)	Notified	170
106	33	106	Kamar Pukur Dhar(S.C.-106)	Notified	129
107	33	107	New Town(S.C.-107)	Non-Notified	83
108	33	108	Sarat Pally (S.C.-108)	Non-Notified	22
109	33	109	Subhaspur(S.C.-109)	Non-Notified	60
110	34	110	Badam Tala Milan Pally(S.C.-110)	Notified	27
111	34	111	Bansh Bagan(S.C.-111)	Notified	84
112	34	112	Fakir Para (South) (S.C.-112)	Notified	40
113	34	113	Hatat Sukanta Pally(S.C.-113)	Notified	119
114	34	114	Manasha Colony(S.C.-114)	Non-Notified	306
115	35	115	64 Pally(S.C.-115)	Notified	264
116	35	116	Abantipur(S.C.-116)	Notified	100
117	35	117	Jagan Nath Colony(S.C.-117)	Notified	36
118	35	118	Kundur Bagan(S.C.-118)	Notified	136
119	35	119	Sree Rampur(S.C.-119)	Notified	108
120	35	120	Sthirpara(S.C.-120)	Non-Notified	265



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Annexure B-6 Photographs of Slum Structures



  
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## Annexure B-7 Average Monthly Income and expenditure of Slum Household

City Level Average Monthly Income of Slum Households									
City	No. of Households	Total Population	Average Monthly Income of Household (in Rs.)						
			Less than Rs.2000	Rs.2000- Rs.3000	Rs.3000- Rs.4000	Rs.4000- Rs.6000	Rs.6000- Rs.9000	More than Rs.9000	Don't Know
Bhatpara	76790	299276	8014	68718	2	10	0	37	9

City Level Average Monthly Expenditure of Households									
City	No. of Households	Total Population	Average Monthly Expenditure of Household (in Rs.)						
			Less than Rs.2000	Rs.2000- Rs.3000	Rs.3000- Rs.4000	Rs.4000- Rs.6000	Rs.6000- Rs.9000	More than Rs.9000	Don't Know
Bhatpara	76790	299276	8193	68563	4	5	0	16	9

## 8. Annexure

## Annexure A: Beneficiary List Annexure B: City Profile Tables

Table 1 : Land Use of Planning Area

Land use (in Sq.Km)	As in 2001	Existing Land use 2011
Residential	11.60	11.60
Commercial	0.00	0.00
Industrial	0.08	0.08
Recreational	0.32	0.32
Public & Semi public	0.14	0.14
Transport & Communication	4.6	4.6
Total Developed Area	27.02	27.02
Source:		

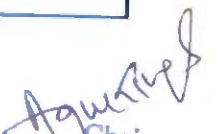
  
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Table 2: Social and Demographic Details

Parameter	2011 Census			2001 census			1991 census		
	Males	Females	Total Persons	Males	Females	Total Persons	Males	Females	Total Persons
Total Population	207876	178143	386019						
Total Literature Population									
Literacy Rate	88.76 %	80.18 %	84.74 %						
Sex Ratio (females per 1000 males)									
Total No. of wards	35			35			25		
Population per ward									
Occupational Pattern:									
Primary (%)									
Secondary (%)									
Tertiary (%)									
Household Industry workers									
Other workers									
Marginal Workers									

  
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Cultivat ors			
Agriculture Labourers			
Household Industry workers			
Other workers			
Non workers			

  
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Table 3: Ward Wise demographic Details

S/No	Ward No.	1991		2001		2011		Density in 2001	Density in 2011	Remarks
		Total Population	Total Households	Total Population	Total Households	Total Population	Total Households			
1	WARD NO-01					3780				
2	WARD NO-02					3905				
3	WARD NO-03					3165				
4	WARD NO-04					3017				
5	WARD NO-05					4562				
6	WARD NO-06					11972				
7	WARD NO-07					11324				
8	WARD NO-08					25821				
9	WARD NO-09					14369				
10	WARD NO-10					13472				
11	WARD NO-11					10989				
12	WARD NO-12					16416				
13	WARD NO-13					11268				
14	WARD NO-14					16504				
15	WARD NO-15					13465				
16	WARD NO-16					18198				
16	WARD NO-17					20357				
18	WARD NO-18					23106				
19	WARD NO-19					8772				
20	WARD NO-20					5180				
21	WARD NO-21					10043				
22	WARD NO-22					7574				
23	WARD NO-23					14707				
24	WARD NO-24					7982				
25	WARD NO-25					8817				
26	WARD NO-26					8083				
27	WARD NO-27					8244				
28	WARD NO-28					8979				
29	WARD NO-29					5348				
30	WARD NO-30					7326				
31	WARD NO-31					7004				
32	WARD NO-32					10280				
33	WARD NO-33					10058				

  
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DPR-HOUSING FOR ALL

34	WARD NO-34					10459				
35	WARD NO-35					15595				
	Other( Defence)					5726				
	Total					386019				
Note: Please insert additional rows in this table, if required										

  
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## I Slum growth trends

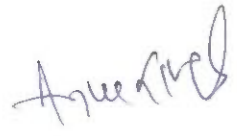
Sl No	Year	Total Population in Slums	Total BPL population	Total Households	Total Households in Slums
1.	1971				
2.	1981				
3.	1991				
4.	2001				
5.	2013(Estimated)				

## I. Slum-wise Intervention strategies for Tenable Slums

Name of the Slum	Area of the Slum in sq.mts	Total No. of Slum Households as per USHA*	Eligible Slum Households	Whether 'in-situ' redevelopment with Private Participation	Required Area for in-situ Redevelopment in Sq.mts	FSU/FAR		Name of other slum if proposed for resettlement in this slum	Proposed Year of Intervention
						Existing	Proposed		
MEGH NAS JUTE MILL LINE(S. C.-052)	19707.4	805	184	YES	NA	NA	2.25	NA	2020-2021
AUCKL AND JUTE MILL LINE(S. C.-047)	43995.5	1179	616	YES	NA	NA	2.25	NA	2019-2020
B L.06(S. C.-012)	56446.3	1724	217	YES	NA	NA	2.25	NA	2016-2017
KANKI NARA JUTE MILL LINE(S. C.-010)	98450	2130	861	YES	NA	NA	2.25	NA	2017-2018
GURDASH(S. C.-077)	449810	1859	389	YES	NA	NA	2.25	NA	2018-2019
<b>TOTAL</b>	<b>668409.2</b>	<b>7697</b>	<b>2267</b>				<b>11.25</b>		

Note: \* Please mention source of data

  
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Note: \* Please mention source of data

II. Slum-wise Intervention strategies for Untenable Slums and Non-PPP Slums				
Name of the Slum	Area of the Slum in sq. mtrs	Total No. of Slum Households as per PMAY	Proposed Development Strategy	Proposed Year of Intervention
			i. Affordable Housing Project (AHP)	
			ii. Credit Linked Subsidy Scheme (CLSS)	
			iii. Beneficiary Led Construction	
			iv. Clubbing with other Tenable Slums**	
Name of the Slum	Area of the Slum in sq. mtrs	Total No. of Slum Households as per PMAY	Proposed Development Strategy	Proposed Year of Intervention
BABURANI PARA(S.C.-001)	72214.4	104	CLSS(79)/BLC(25)	2020-2021
Kumar Para Burning Ghat (S.C.-002)	80871.1	186	CLSS(104)/BLC(82)	2020-2021
BAZAR ROAD(S.C.-003)	105871	128	CLSS(117)/BLC(11)	2020-2021
GOYALA PARA-II(S.C.-004)	119010	191	CLSS(191)/BLC(0)	2020-2021
AMBAGAN(S.C.-005)	311099	170	CLSS(170)/BLC(0)	2020-2021
PADMA PUKUR ROAD(S.C.-006)	266556	183	CLSS(183)/BLC(0)	2016-2017
KANTADANGA ROAD(S.C.-007)	129277	242	CLSS(242)/BLC(0)	2015-2016
KANTADANGA(S.C.-008)	184592	124	CLSS(124)/BLC(0)	2016-2017
CHALTA ROAD(S.C.-009)	17658.2	94	CLSS(88)/BLC(6)	2020-2021
NAYA BAZAR(S.C.-011)	138116	103	CLSS(99)/BLC(4)	2019-2020
B L.07(S.C.-013)	21755.9	45	CLSS(44)/BLC(1)	2019-2020
B L.19(S.C.-014)	23635.8	39	CLSS(27)/BLC(12)	2019-2020
B L.20(S.C.-015)	75274.6	191	CLSS(160)/BLC(31)	2019-2020
RAMNAGAR EAST(S.C.-016)	272074	181	CLSS(141)/BLC(40)	2016-2017
SATYAJIT PALLY(S.C.-017)	75229	57	CLSS(26)/BLC(31)	2016-2017
SUNDIYA PARA(S.C.-018)	68684.8	112	CLSS(88)/BLC(24)	2016-2017
Adibasi Para(S.C.-019)	77070.7	44	CLSS(44)/BLC(0)	2016-2017
B L.08(S.C.-020)	9660.43	61	CLSS(42)/BLC(19)	2019-2020
B L.09(S.C.-021)	28124.2	107	CLSS(60)/BLC(47)	2019-2020
B L.10(S.C.-022)	18396.1	128	CLSS(24)/BLC(104)	2019-2020
B L.11(S.C.-023)	10525.2	32	CLSS(5)/BLC(27)	2019-2020
B L.12(S.C.-024)	27609.8	61	CLSS(13)/BLC(48)	2019-2020
BL-17(S.C.-025)	30520.7	99	CLSS(13)/BLC(86)	2019-2020
BAKAR MUHALLA(S.C.-026)	26122.4	88	CLSS(83)/BLC(5)	2019-2020
B L.13(S.C.-027)	82875.6	109	CLSS(21)/BLC(88)	2019-2020
KELA BAGAN(S.C.-028)	33648	183	CLSS(171)/BLC(12)	2019-2020
PANCHANANTALA(S.C.-029)	24981.1	49	CLSS(0)/BLC(49)	2019-2020
Anglo India Middle Mill Line(S.C.-030)	69469.1	27	CLSS(25)/BLC(2)	2019-2020
21 NO GOLI(S.C.-031)	23176.6	32	CLSS(1)/BLC(31)	2019-2020
BARUI PARA(S.C.-032)	68148.6	239	CLSS(15)/BLC(224)	2019-2020
GOYALA PARA (S.C.-033)	30357.5	178	CLSS(17)/BLC(161)	2019-2020
MANIKPIR(S.C.-034)	165822	172	CLSS(151)/BLC(21)	2019-2020
SUGIA PARA- WARD(14)(S.C.-035)	54095.2	89	CLSS(47)/BLC(42)	2019-2020
SUORMARI(S.C.-036)	16018.4	0	CLSS(0)/BLC(0)	NA
1 NO. KEBIN ROAD(S.C.-37)	98673.2	100	CLSS(30)/BLC(70)	2015-2016
BEGUN KHET(S.C.-38)	53700	20	CLSS(20)/BLC(0)	2017-2018
SUGIA PARA - WARD (15)	47508.5	52	CLSS(0)/BLC(52)	2017-2018
Netaji Pally(S.C.-040)	42837.8	49	CLSS(0)/BLC(49)	2017-2018
27 No Railway Siding(S.C.-041)	11851.6	4	CLSS(0)/BLC(4)	2017-2018
ALLIANCE JUTE KULI LINE(S.C.-042)	27952.3	106	CLSS(63)/BLC(43)	2020-2021
B L.01(S.C.-043)	72462.2	403	CLSS(172)/BLC(231)	2017-2018
B L.02(S.C.-044)	87743.5	286	CLSS(161)/BLC(125)	2020-2021
B L.11(S.C.-045)	99253.4	664	CLSS(648)/BLC(16)	2020-2021
GUPTAR BAGAN(S.C.-046)	138262	626	CLSS(598)/BLC(28)	2020-2021
B L.09(S.C.-048)	21687.4	20	CLSS(20)/BLC(0)	2019-2020

  
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CIRCUS JUTE MILL LINE(S.C.-049)	18363.6	58	CLSS(58)/BLC0	2020-2021
MEGHNA MORE (SOUTH)(S.C.-050)	37907.6	311	CLSS(311)/BLC0	2020-2021
MEGHNA MORE (NORTH)(S.C.-051)	17686.7	148	CLSS(107)/BLC(41)	2020-2021
NAYA BAZAR(S.C.-053)	13512.6	56	CLSS(56)/BLC0	2020-2021
RUSTAM GUMTI(S.C.-054)	22267	45	CLSS(45)/BLC0	2020-2021
RABINDRA PALLY (S.C.-055)	43742.9	112	CLSS(111)/BLC(1)	2019-2020
BANKIM NAGAR(S.C.-056)	120908	313	CLSS(196)/BLC(117)	2019-2020
SURPARA ROAD(S.C.-057)	80703.4	157	CLSS(123)/BLC(34)	2019-2020
MULA ZORE(S.C.-058)	62220.5	180	CLSS(41)/BLC(139)	2019-2020
SUNDIA(S.C.-059)	35037.2	43	CLSS(6)/BLC(37)	2019-2020
PRAMOD NAGAR(S.C.-060)	290111	470	CLSS(459)/BLC(11)	2019-2020
SASTRI NAGAR(S.C.-061)	66027.5	328	CLSS(286)/BLC(42)	2019-2020
SANTI NIWAS PALLY(S.C.-062)	15287.7	63	CLSS(54)/BLC(9)	2019-2020
UTTAR PARA(S.C.-063)	108780	90	CLSS(75)/BLC(15)	2019-2020
NETAJI NAGAR COLONEY(S.C.-064)	37647.5	377	CLSS(132)/BLC(245)	2019-2020
SATIN SEN NAGAR(S.C.-065)	195117	228	CLSS(56)/BLC(172)	2019-2020
PURBASHA(S.C.-066)	113013	19	CLSS(12)/BLC(7)	2019-2020
BATTALA RAMKRISHNA PALLY(S.C.-067)	241777	76	CLSS0/BLC(76)	2018-2019
RABINDRA PALLY(S.C.-068)	24402.9	59	CLSS(7)/BLC(52)	2018-2019
NAG BAGAN(S.C.-069)	112049	46	CLSS(46)/BLC0	2018-2019
SARAT PALLY (S.C.-070)	110409	97	CLSS(97)/BLC0	2018-2019
CHAK GURADAH RAM MOHAN PALLY(S.C.-071)	103117	17	CLSS(17)/BLC0	2015-2016
HOUSE KHANA(S.C.-072)	205166	118	CLSS(118)/BLC0	2018-2019
JANA PARA(S.C.-073)	211154	32	CLSS(32)/BLC0	2018-2019
CHAK GURADAH C.M.D BAGAN(S.C.-074)	217278	60	CLSS(60)/BLC0	2018-2019
PALPARA DEBA SREE PALLY(S.C.-075)	211349	154	CLSS(154)/BLC0	2018-2019
UKIL BAGAN(S.C.-076)	46008.7	80	CLSS(80)/BLC0	2018-2019
MALAKARPARA(S.C.-078)	116280	107	CLSS(107)/BLC0	2018-2019
B.R.S.(S.C.-079)	206143	505	CLSS(502)/BLC(3)	2018-2019
RAHUTA PURBA PARA(S.C.-080)	307068	52	CLSS(52)/BLC0	2018-2019
RAHUTA(S.C.-081)	214899	296	CLSS(153)/BLC(143)	2018-2019
HINDUSTAN COLONY(S.C.-082)	118197	112	CLSS(79)/BLC(33)	2018-2019
MILANGAR UDYANAGAR(S.C.-083)	83519.3	157	CLSS(129)/BLC(28)	2018-2019
NABA PALLY(S.C.-084)	300909	56	CLSS(52)/BLC(4)	2018-2019
MITRAPARA(S.C.-085)	321382	235	CLSS(234)/BLC(1)	2018-2019
NAYAN PALLY(S.C.-086)	183326	173	CLSS(172)/BLC(1)	2017-2018
RAM KRISHNA PALLY(S.C.-087)	283800	34	CLSS(34)/BLC0	2017-2018
SATADAL PALLY(S.C.-088)	367832	174	CLSS(174)/BLC0	2018-2019
UCHHEGARH UTTARPARA(S.C.-089)	300340	101	CLSS(98)/BLC(3)	2017-2018
UCHHEGARH(S.C.-090)	201580	86	CLSS(86)/BLC0	2017-2018
BALISHKHANA(S.C.-091)	128483	132	CLSS(2)/BLC(130)	2017-2018
FAKIR PARA (NORTH)(S.C.-092)	96265.3	12	CLSS(1)/BLC(11)	2017-2018
SOUTH NARAYAN PUR(S.C.-093)	146436	151	CLSS0/BLC(151)	2017-2018
SUBHASHPUR(S.C.-094)	162446	69	CLSS(2)/BLC(67)	2017-2018
KEWTIA PALPARA(S.C.-095)	294605	148	CLSS(1)/BLC(147)	2015-2016
BIJAY NAGAR(S.C.-096)	854534	114	CLSS(62)/BLC(52)	2017-2018
CHASIPARA(S.C.-097)	125951	41	CLSS(23)/BLC(18)	2017-2018



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## III. Year-wise Proposed Interventions in Slums

Number of Beneficiaries and Central Assistance Required (Rs. in Crores)														
Year	Redevelopment thru Private Partner Participation*			Beneficiary-led Construction			Credit Linked Subsidy**			Affordable Housing in Partnership			Total	
	No. of Slums	No. of Beneficiaries	Amount	No. of Slums	No. of Beneficiaries	Amount	No. of Slums	No. of Beneficiaries	Amount	No. of Slums	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount
2015-16	0	0	0	7	289	4.335	7	626	0	0	0	0	915	4.335
2016-17	1	217	2.17	13	622	9.33	13	1148	0	0	0	0	1987	11.5
2017-18	1	861	8.61	28	858	12.87	28	1307	0	0	0	0	3026	21.48
2018-19	1	389	3.89	18	340	5.1	18	2076	0	0	0	0	2805	8.99
2019-20	1	616	6.16	33	1843	27.645	33	2589	0	0	0	0	5048	33.805
2020-21	1	184	1.84	15	377	5.655	15	2796	0	0	0	0	3357	7.495
2021-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5	2267	22.67	114	4329	64.935	114	10542	0	0	0	0	17138	87.605

\* Each beneficiary at the rate of one lakh each, \*\*Each Beneficiary at the rate of 1.5 lakh each, \*\*\* Just put number of beneficiaries, amount is not required,\*\*\*\* Affordable Housing in Partnership @ 1.5 lakh each

IV. Year-wise Proposed Interventions for Other Urban Poor based on demand survey										
Number of Beneficiaries and Central Assistance Required (Rs. in Crores)										
Year	Beneficiary-led Construction		Credit Linked Subsidy		Affordable Housing in Partnership		Future Urban Poor projection		Total	
	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount	No. of Beneficiaries	Amount
2015-16	0	0	0	0	0	0	0	0	0	0
2016-17	0	0	0	0	0	0	230	3.45	230	3.45
2017-18	0	0	0	0	0	0	230	3.45	230	3.45
2018-19	0	0	0	0	0	0	230	3.45	230	3.45
2019-20	0	0	0	0	0	0	230	3.45	230	3.45
2020-21	0	0	0	0	0	0	230	3.45	230	3.45
2021-22	0	0	0	0	0	0	230	3.45	230	3.45
Total	0	0	0	0	0	0	1380	20.7	1380	20.7


  
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## V. Year-wise targets under different components

Interventions		Number of Beneficiaries and Central Assistance Required (Rs. in Crores)												
		2015-16		2016-17		2017-18		2018-19		2019-20		2020-21		2021-22
		No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.
Redevelopment through Private Participation	Slums	0	0	217	2.17	861	8.61	389	3.89	616	6.16	184	1.84	0
	Non-Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
Subsidy for beneficiary-led improvement of existing house	Slums	289	4.335	622	9.33	858	12.87	340	5.1	1843	27.645	377	5.655	0
	Non-Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
Credit linked subsidy to individual beneficiaries	Slums	626	0	1148		1307		2076		2589		2796		
	Non-Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
Affordable Housing in Partnership (AHP)	Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
	Non-Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
Future Urban Poor projection	N/A	0	0	230	3.45	230	3.45	230	3.45	230	3.45	230	3.45	230
Total		915	4.335	2217	14.95	3256	24.93	3035	12.44	5278	37.255	3587	10.945	230

  
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## V. Year-wise targets under different components

Interventions		Number of Beneficiaries and Central Assistance Required (Rs. in Crores)												
		2015-16		2016-17		2017-18		2018-19		2019-20		2020-21		2021-22
		No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.
Redevelopment through Private Participation	Slums	0	0	217	2.17	861	8.61	389	3.89	616	6.16	184	1.84	0
	Non-Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
Subsidy for beneficiary-led improvement of existing house	Slums	289	4.335	622	9.33	858	12.87	340	5.1	1843	27.645	377	5.655	0
	Non-Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
Credit linked subsidy to individual beneficiaries	Slums	626	0	1148		1307		2076		2589		2796		
	Non-Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
Affordable Housing in Partnership (AHP)	Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
	Non-Slums	0	0	0	0	0	0	0	0	0	0	0	0	0
Future Urban Poor projection	N/A	0	0	230	3.45	230	3.45	230	3.45	230	3.45	230	3.45	230
Total		915	4.335	2217	14.95	3256	24.93	3035	12.44	5278	37.255	3587	10.945	230

  
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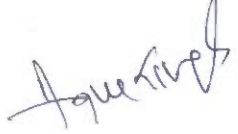
  
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Table 10. Consolidated Data Table

Ward No.	Slum Code	Slum Name	Number of total Households( including pucca )	AREA in Sq M	SC	ST	Minority	Physical location	Ownership of Land	Prone to flooding	Household Density per Hectare(From USHA)	Tenability (Yes/no)	Land Value (Z1 is high and Z4 is low)	Own
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
1	1	BABURANI PARA(S.C.-001)	425	72214.4	23	17	11	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	33
2	2	Kumar Para Burning Ghat (S.C.-002)	863	80871.1	107	17	68	Along River/Water Body Bank	Private owned	Upto 15 days	Low	YES	Z1	45
3	3	BAZAR ROAD(S.C.-003)	606	105871	38	0	3	Along River/Water Body Bank	Private owned	15-30 days	Low	YES	Z1	55
5	4	GOYALA PARA-II(S.C.-004)	809	119010	104	4	20	Along Railway Line	Private owned	More than a month	Low	YES	Z1	3
6	5	AMBAGAN(S.C.-005)	1085	311099	40	12	20	Along Railway Line	Private owned	More than a month	Low	YES	Z1	108
6	6	PADMA PUKUR ROAD(S.C.-006)	1616	266556	53	4	29	Along Major Transport	Private owned	More than a month	Low	YES	Z1	139
7	7	KANTADANG A ROAD(S.C.-007)	1820	129277	59	3	48	Along Other Drains	Private owned	Upto 15 days	Low	YES	Z1	155
7	8	KANTADANG A(S.C.-008)	1006	184592	92	6	25	Along Railway Line	Private owned	15-30 days	Low	YES	Z1	80
8	9	CHALTA ROAD(S.C.-009)	914	17658.2	2	0	189	Along Railway Line	Private owned	Not Prone	Low	YES	Z1	10
8	10	KANKHARA JUTE MILL LINE(S.C.-010)	2130	98450	332	65	466	Along Major Transport	Private owned	15-30 days	Low	YES	Z1	9
8	11	NAYA BAZAR(S.C.-011)	4302	138116	50	0	3298	Along Major Transport	Private owned	Not Prone	Low	YES	Z1	12
9	12	B L 06(S.C.-014)	1724	56446.3	69	30	821	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	
9	13	B L 07(S.C.-012)	396	21755.9	21	1	41	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	9
9	14	B L 19(S.C.-013)	496	23635.8	6	2	0	Along River/Water Body Bank	Private owned	15-30 days	Low	YES	Z1	7
9	15	B L 20(S.C.-015)	734	75274.6	9	0	25	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	66
10	16	RAMNAGAR EAST(S.C.-016)	1289	272074	26	3	32	Along Railway Line	Private owned	15-30 days	Low	YES	Z1	141
10	17	SATYAJIT PALLY(S.C.-017)	320	75229	4	11	1	Along Railway Line	Private owned	15-30 days	Low	YES	Z1	54
10	18	SUNDIYA PARA(S.C.-018)	445	68684.8	25	3	1	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	66
10	19	Adibasi Para(S.C.-019)	118	77070.7	13	16	0	Along Railway Line	Private owned	15-30 days	Low	YES	Z1	30
11	20	B L 08(S.C.-020)	185	9660.43	4	0	4	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	28

  
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11	21	B.L.09(S.C.-021)	442	28124.2	7	0	83	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	31
11	22	B.L.10(S.C.-022)	759	18396.1	19	0	16	Along Railway Line	Private owned	Upto 15 days	Medium	YES	Z1	43
11	23	B.L.11(S.C.-023)	316	10525.2	32	2	14	Along Major Transport	Private owned	More than a month	Low	YES	Z1	4
11	24	B.L.12(S.C.-024)	620	27609.8	1	13	100	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	14
11	25	B.L.17(S.C.-025)	603	30520.7	7	0	177	Along Other Drains	Private owned	Not Prone	Low	YES	Z1	15
12	26	BAKAR MUHALLA(S.C.-026)	1045	26122.4	1	0	415	Along Railway Line	Private owned	15-30 days	Medium	YES	Z1	26
12	27	B.L.13(S.C.-027)	620	82875.6	38	0	310	Along Major Transport	Private owned	Not Prone	Low	YES	Z1	50
12	28	KELA BAGAN(S.C.-028)	962	33648	67	0	287	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	125
12	29	PANCHANAN TALA(S.C.-029)	310	24981.1	11	2	51	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	12
12	30	Anglo India Middle Mill Line(S.C.-030)	490	69469.1	22	0	213	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	8
13	31	21 NO GOIN(S.C.-031)	776	23176.6	100	4	39	Along Railway Line	Private owned	15-30 days	Low	YES	Z1	11
13	32	BARUI PARA(S.C.-032)	1215	68148.6	6	0	644	Along Railway Line	Private owned	Not Prone	Low	YES	Z1	61
13	33	GOYALA PARA(S.C.-033)	654	30357.5	22	0	122	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	80
14	34	MANIKPUR(S.C.-034)	2516	165822	42	1	680	Along Major Transport	Private owned	Not Prone	Low	YES	Z1	46
14	35	SUGIA PARA-WARD(14)(S.C.-035)	1713	54095.2	107	0	102	Along Major Transport	Private owned	15-30 days	Low	YES	Z1	11
14	36	SUORMARI(S.C.-036)	197	16018.4	161	0	3	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	8
15	37	1 NO. KEBIM ROAD(S.C.-037)	276	98673.2	13	0	8	Along Other Drains	Private owned	15-30 days	Low	YES	Z1	61
15	38	BEGUN KHET(S.C.-038)	292	53700	24	0	21	Along Major Transport	Private owned	15-30 days	Low	YES	Z1	15
23	39	SUGIA PARA-WARD(15)(S.C.-039)	188	47508.5	1	0	24	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	27
15	40	Netaji Park(S.C.-040)	178	42837.8	0	0	7	Along Other Drains	Private owned	More than a month	Low	YES	Z1	48
15	41	27 No Railway Siding(S.C.-041)	75	11851.6	1	0	24	Along Railway Line	Private owned	15-30 days	Low	YES	Z1	
16	42	ALLIANCE JUTE KULI LINE(S.C.-042)	1174	27952.3	2	0	205	Along Major Transport	Private owned	15-30 days	Medium	YES	Z1	
16	43	B.L.01(S.C.-043)	1577	72462.2	12	0	661	Along Major Transport	Private owned	15-30 days	Low	YES	Z1	80
16	44	B.L.02(S.C.-044)	2559	87743.5	32	3	419	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	96

  
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17	45	B.L.11(S.C.-045)	2155	99253.4	91	1	501	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	65
17	46	GUPTAR BAGAN(S.C.-046)	2418	138262	33	5	409	Along Other Drains	Private owned	More than a month	Low	YES	Z1	134
18	47	AUCKLAND JUTE MILL LANE(S.C.-047)	1179	43995.5	202	6	137	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	
18	48	B.L.09(S.C.-048)	221	21687.4	36	0	8	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	5
18	49	CIRCUS JUTE MILL LANE(S.C.-049)	181	18363.6	0	0	6	Along Major Transport	Private owned	Not Prone	Low	YES	Z1	
18	50	MEGHNA MORE (SOUTH)(S.C.-050)	462	37907.6	83	3	138	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	59
18	51	MEGHNA MORE (NORTH)(S.C.-051)	823	17686.7	56	0	237	Along Major Transport	Private owned	Upto 15 days	Medium	YES	Z1	33
18	52	MEGHNA JUTE MILL LANE(S.C.-052)	805	19707.4	77	0	43	Along Major Transport	Private owned	Not Prone	Medium	YES	Z1	
18	53	MAYA BAZAR(S.C.-053)	237	13512.6	7	0	96	Along Major Transport	Private owned	More than a month	Low	YES	Z1	6
18	54	RUSTAM GUMTI(S.C.-054)	521	22267	12	0	103	Along Major Transport	Private owned	15-30 days	Low	YES	Z1	1
18	55	RABINDRA PALLY(S.C.-055)	643	43742.9	18	1	112	Along River/Water Body Bank	Private owned	Upto 15 days	Low	YES	Z1	79
19	56	BANIKIM NAGAR(S.C.-056)	1381	120908	164	1	2	Along Other Drains	Private owned	Upto 15 days	Low	YES	Z1	280
19	57	SURPARA ROAD(S.C.-057)	961	80703.4	108	7	36	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	79
20	58	MULA ZORE(S.C.-058)	352	62220.5	49	0	3	Along Railway Line	Private owned	15-30 days	Low	YES	Z1	165
20	59	SUNDIA(S.C.-059)	234	35037.2	6	4	0	Along Major Transport	Private owned	15-30 days	Low	YES	Z1	1
21	60	PRAMOD NAGAR(S.C.-060)	848	290111	196	0	0	Along River/Water Body Bank	Private owned	More than a month	Low	YES	Z1	366
21	61	SASTRI NAGAR(S.C.-061)	811	66027.5	211	1	5	Along River/Water Body Bank	Private owned	Not Prone	Low	YES	Z1	274
22	62	SANTI NIWAS PALLY(S.C.-062)	148	15287.7	3	0	1	Along Railway Line	Private owned	Upto 15 days	Low	YES	Z1	26
22	63	UTTAR PARA(S.C.-063)	1374	108780	10	0	266	Along Railway Line	Private owned	Not Prone	Low	YES	Z1	21
23	64	NETAJI NAGAR COLONEY(S.C.-064)	775	37647.5	407	4	2	Along Railway Line	Private owned	Not Prone	Low	YES	Z1	358
23	65	SATIN SEN NAGAR(S.C.-065)	1078	195117	92	4	1	Along Other Drains	Private owned	Upto 15 days	Low	YES	Z1	222
23	66	PURBASHA(S.C.-066)	503	119013	103	0	112	Along Railway Line	Private owned	15-30 days	Low	YES	Z1	17

  
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24	67	BATTALA RAMKRISHNA PALLY(S.C.- 067)	582	241777	13	0	0	Along Other Drains	Private owned	15-30 days	Low	YES	Z1	76
24	68	RABINDRA PALLY(S.C.- 068)	223	24402.9	32	0	0	Along Other Drains	Private owned	Not Prone	Low	YES	Z1	59
25	69	HAG BAGAN(S.C.- 069)	866	112049	15	8	1	Along Other Drains	Private owned	15-30 days	Low	YES	Z1	45
25	70	SARAT PALLY (S.C.-070)	474	110409	45	0	3	Along Other Drains	Private owned	15-30 days	Low	YES	Z1	89
26	71	CHAK GURADAM RAM MOHAN PALLY(S.C.- 071)	110	103117	31	0	0	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	15
26	72	HOUSE KHANA(S.C.- 072)	293	205166	159	8	1	Along Major Transport	Private owned	15-30 days	Low	YES	Z1	118
26	73	JANA PARA(S.C.- 073)	123	211154	1	0	0	Along Major Transport	Private owned	15-30 days	Low	YES	Z1	29
26	74	CHAK GURADAM C.M.D BAGAN(S.C.- 074)	308	217278	130	0	0	Along Major Transport	Private owned	15-30 days	Low	YES	Z1	60
26	75	PALPARA DEBA SREE PALLY(S.C.- 075)	172	211349	25	0	0	Along Other Drains	Private owned	Upto 15 days	Low	YES	Z1	154
26	76	UKIL BAGAN(S.C.- 076)	211	46008.7	62	0	0	Along Major Transport	Private owned	More than a month	Low	YES	Z1	80
27	77	GURDAM(S.C.- 077)	1859	449810	234	0	0	Along River/Water Body Bank	Private owned	Upto 15 days	Low	YES	Z1	389
27	78	MALAKARPA RA(S.C.-078)	489	116280	48	0	0	Along Other Drains	Private owned	Upto 15 days	Low	YES	Z1	107
28	79	B.R.S (S.C.- 079)	1423	206143	490	0	0	Along Other Drains	State Government	Upto 15 days	Low	YES	Z1	5
28	80	RAHUTA PURBA PARA(S.C.- 080)	848	307068	292	0	21	Along Major Transport	Private owned	Upto 15 days	Low	YES	Z1	50
28	81	RAHUTA(S.C.- 081)	711	214899	204	16	26	Along Other Drains	Private owned	Upto 15 days	Low	YES	Z1	296
29	82	HINDUSTAN COLONY(S.C.- 082)	496	118197	159	2	0	Along Other Drains	Private owned	15-30 days	Low	YES	Z4	112
29	83	MILANGAR UDYANAGAR (S.C.-083)	429	83519.3	64	1	0	Along Other Drains	Private owned	More than a month	Low	YES	Z4	157
29	84	HABA PALLY(S.C.- 084)	401	300909	98	1	1	Along River/Water Body Bank	Private owned	Upto 15 days	Low	YES	Z4	56
30	85	MITRAPARA (S.C.-085)	668	321382	254	1	0	Along River/Water Body Bank	Private owned	More than a month	Low	YES	Z4	234
31	86	NAYAN PALLY(S.C.- 086)	439	183326	105	3	22	Along Other Drains	Private owned	15-30 days	Low	YES	Z4	173
30	87	RAM KRISHNA PALLY(S.C.- 087)	285	283800	62	2	23	Along Other Drains	Private owned	15-30 days	Low	YES	Z4	34

  
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30	88	SATADAL PALLY(S.C.-088)	593	367832	236	0	10	Along Other Drains	Private owned	15-30 days	Low	YES	Z4	170
30	89	UCHHREGAR H UTTARPARA(S.C.-089)	101	300340	47	0	41	Along Major Transport	Private owned	More than a month	Low	YES	Z4	101
30	90	UCHHREGAR(S.C.-090)	210	201580	5	0	21	Along Major Transport	Private owned	15-30 days	Low	YES	Z4	83
31	91	BALISHKHAN A(S.C.-091)	352	128483	50	0	1	Along Major Transport	Private owned	15-30 days	Low	YES	Z4	125
31	92	FAKIR PARA (NORTH)(S.C.-092)	192	96265.3	140	0	2	Along Other Drains	Private owned	Upto 15 days	Low	YES	Z4	12
31	93	SOUTH NARAYAN PUR(S.C.-093)	409	146436	191	1	0	Along Major Transport	Private owned	More than a month	Low	YES	Z4	148
31	94	SUBHASHPUR(S.C.-094)	452	162446	40	0	0	Along Other Drains	Private owned	More than a month	Low	YES	Z4	69
31	95	KEWTIA PALPARA(S.C.-095)	428	294605	173	0	42	Along Major Transport	Private owned	More than a month	Low	YES	Z4	148
32	96	BUAY NAGAR(S.C.-096)	1191	854534	37	1	2	Along Major Transport	Private owned	More than a month	Low	YES	Z4	114
33	97	CHASIPARA(S.C.-097)	188	125951	28	0	0	Along Major Transport	Private owned	15-30 days	Low	YES	Z4	41
32	98	DULE PARA(S.C.-098)	270	238155	80	0	0	Along Major Transport	Private owned	More than a month	Low	YES	Z4	36
32	99	MANGAL PANDEY PALLY(S.C.-099)	143	65778.2	24	0	0	Along River/Water Body Bank	Private owned	15-30 days	Low	YES	Z4	12
32	100	PALER MATH(S.C.-100)	324	62762	43	0	0	Along Other Drains	Private owned	More than a month	Low	YES	Z4	5
32	101	PURBA PARA(S.C.-101)	123	86177.5	5	0	1	Along Major Transport	Private owned	More than a month	Low	YES	Z4	24
33	102	DURGA NAGAR(S.C.-102)	142	25519.7	9	1	0	Along Major Transport	Private owned	More than a month	Low	YES	Z4	73
33	103	HATATH COLONY(S.C.-103)	451	205654	27	0	0	Along Major Transport	Private owned	More than a month	Low	YES	Z4	40
33	104	HATPURI COLONY(S.C.-104)	229	140738	42	2	0	Along Other Drains	Private owned	15-30 days	Low	YES	Z4	60
33	105	JAY CHANDI TALA(S.C.-105)	376	77114.7	12	0	0	Along River/Water Body Bank	Private owned	More than a month	Low	YES	Z4	83
33	106	Kamar Pukur Dhar(S.C.-106)	349	133923	36	1	0	Along Other Drains	Private owned	More than a month	Low	YES	Z4	20
33	107	NEW TOWN(S.C.-107)	119	176741	18	0	0	Along Other Drains	Private owned	More than a month	Low	YES	Z4	129
33	108	SARAT PALLY(S.C.-108)	464	480632	15	0	2	Along Major Transport	Private owned	More than a month	Low	YES	Z4	170
33	109	Subhaspur(S.C.-109)	392	119524	53	0	0	Along Major Transport	Private owned	More than a month	Low	YES	Z4	59
34	110	BADAM TALA MILAN PALLY(S.C.-110)	287	63700.3	46	0	4	Along Other Drains	Private owned	More than a month	Low	YES	Z4	119

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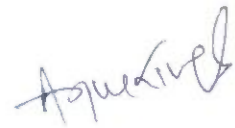
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Table 11.Non Slum Urban Poor Data

	Land ownership			Housing Status		Homeless, if any	Beneficiary-led Construction	Credit Linked Subsidy	Affordable Housing in Partnership	Existing Housing shortage (Ht+D)
	Own	Rented	Otherwise	Semi pucca	Kutcha					
Ward 1	0	0	0	0	0	0	0	0	0	0
Ward 2	0	0	0	0	0	0	0	0	0	0
Ward 3	0	0	0	0	0	0	0	0	0	0
Ward 4	0	0	0	0	0	0	0	0	0	0
Ward 5	0	0	0	0	0	0	0	0	0	0
Ward 6	0	0	0	0	0	0	0	0	0	0
Ward 7	0	0	0	0	0	0	0	0	0	0
Ward 8	0	0	0	0	0	0	0	0	0	0
Ward 9	0	0	0	0	0	0	0	0	0	0
Ward 10	0	0	0	0	0	0	0	0	0	0
Ward 11	0	0	0	0	0	0	0	0	0	0
Ward 12	0	0	0	0	0	0	0	0	0	0
Ward 13	0	0	0	0	0	0	0	0	0	0
Ward 14	0	0	0	0	0	0	0	0	0	0
Ward 15	0	0	0	0	0	0	0	0	0	0
Ward 16	0	0	0	0	0	0	0	0	0	0
Ward 17	0	0	0	0	0	0	0	0	0	0
Ward 18	0	0	0	0	0	0	0	0	0	0
Ward 19	0	0	0	0	0	0	0	0	0	0
Ward 20	0	0	0	0	0	0	0	0	0	0
Ward 21	0	0	0	0	0	0	0	0	0	0
Ward 22	0	0	0	0	0	0	0	0	0	0
Ward 23	0	0	0	0	0	0	0	0	0	0
Ward 24	0	0	0	0	0	0	0	0	0	0
Ward 25	0	0	0	0	0	0	0	0	0	0
Ward 26	0	0	0	0	0	0	0	0	0	0
Ward 27	0	0	0	0	0	0	0	0	0	0
Ward 28	0	0	0	0	0	0	0	0	0	0
Ward 29	0	0	0	0	0	0	0	0	0	0
Ward 30	0	0	0	0	0	0	0	0	0	0
Ward 31	0	0	0	0	0	0	0	0	0	0
Ward 32	0	0	0	0	0	0	0	0	0	0
Ward 33	0	0	0	0	0	0	0	0	0	0
Ward 34	0	0	0	0	0	0	0	0	0	0
Ward 35	0	0	0	0	0	0	0	0	0	0



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Table 12. Future projected Urban Poor HHS

Year	Future projected urban Poor HHS
2015	0
2016	230
2017	230
2018	230
2019	230
2020	230
2021	230
2022	0

Note: Take from CDP or Project population



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সূডা

SUDA

রাজ্য নগর উন্নয়ন সংস্থা

STATE URBAN DEVELOPMENT AGENCY

“ইলগাস ভবন”, এইচ-সি ব্লক, সেক্টর-৩, বিধাননগর, কলকাতা-৭০০ ১০৬, পশ্চিমবঙ্গ  
 “ILGUS BHAVAN”, H-C Block, Sector - III, Bidhannagar, Kolkata - 700 106, West Bengal

SUDA-245/2015 (Pt-I)/ 1520 / (70)

05.11.2015

ক্রমিক নং .....

তারিখ .....

From: Director, SUDA & State Mission Director, PMAY/ HFA (Urban)  
 & Member-Convener, SLSMC

To: The Mayor/ Chairperson/ Commissioner  
 .....Municipal Corporation/ Municipality/ N.A.A.

Sub: Forwarding of formats of Appraisal Checklist for Housing for All Plan of Action (HFAPoA) and DPRs Scrutiny Reports for the different options of implementation under PMAY as received from Government of India

Sir,

In enclosing herewith formats of Appraisal Checklist for Housing for All Plan of Action (HFAPoA) and DPRs Scrutiny Reports for the different options of implementation under PMAY/ HFA (U) as received from Government of India, I am to request you to kindly fill in the appropriate formats (applicable for your ULB) and return the same by return mail so as to reach this office latest by 06.11.2015 (4.00 P.M.).

Kindly treat this as most urgent.

Enclo: As stated

Yours faithfully,

*W. S. S. S.*  
 Director, SUDA &  
 State Mission Director, PMAY / HFA  
 & Member-Convener, SLSMC

দূরভাষ : ২৩৫৮ ৬৪০৩ / ৫৭৬৭, ফ্যাক্স : ২৩৫৮ ৫৮০০

Tel : 2358 6403/5767, Fax : 2358 5800, E-mail : wbsudadir@gmail.com  
 Account Section : 2358 6408

*Ag. M. S.*  
 Chairman  
 Bhatpara Municipality

**No. N-11036/02/2015-HFA.1 (FTS-13413)**

Government of India  
Ministry of Housing & Urban Poverty Alleviation  
HFA-1 Division  
\*\*\*\*\*

G-Wing, Nirman Bhawan, New Delhi  
Dated the 27<sup>th</sup> October, 2015

To,

The Chairman & Managing Director, Housing and Urban Development Corporation Ltd. (HUDCO), HUDCO Bhawan, Core-7-A, India Habitat Centre, Lodhi Road, New Delhi - 110003, Fax: 011- 24697378	The Executive Director, Building Materials and Technology Promotion Council, Core 5-A, First Floor, India Habitat Centre, Lodi Road, New Delhi- 110003, Fax: 011-24642849
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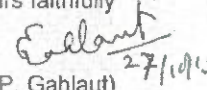
**Subject:** Scrutiny Sheet for Project Summary and DPR Scrutiny Report under  
the Pradhan Mantri Awas Yojana (PMAY) - HFA (Urban) Mission  
Guidelines-forwarding regarding.

Sir,

I am directed to forward herewith formats for (i) Scrutiny Sheet for Project  
Summary and (ii) DPR Scrutiny Report under the Pradhan Mantri Awas Yojana (PMAY)  
Guidelines for further appropriate action.

2. This issues with the approval of the competent authority.

Yours faithfully

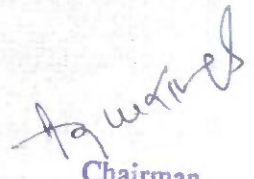


(Sushil P. Gahlaut)

Under Secretary to the Government of India  
Tele: 011-23063488

Copy to:

- i. DS (HFA-2&3)
- ii. DS (HFA-4&5)
- iii. US (HFA-2)
- iv. US (HFA-3)
- v. US (HFA-4)
- vi. US (HFA-5)
- vii. DC (MIS)

  
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**APPRAISAL CHECKLIST FOR HOUSING FOR ALL PLAN OF ACTION (HFAPoA)****BASIC INFORMATION:**

- I. Name of the State: West Bengal.  
 II. Name of the City: Bhatpara.  
 III. State level Nodal Agency: SUDA.  
 IV. City Population (as per Census 2011): 3,86,019.  
 V. Slum Population (as per Census 2011): As per USHA survey  
 VI. Urban Poor Population (Non-Slum):  
 VII. Total No. of Slums:  
 VIII. Projected Financial Requirement for Four (4) Verticals\*:


S.No	Verticals	Projected No. of Beneficiaries			% of Beneficiaries	% of SC Beneficiaries	% of ST Beneficiaries	Financial Requirement (Rs. in lakhs)
		Total	SC	ST				
a.	In-situ Redevelopment using Land as a Resource	2267	60	1	13.23%	0.35%	0.01%	2267
b.	Credit Linked Subsidy Scheme (CLSS):	10542	1681	40	61.51%	9.81%	0.23%	-
c.	Affordable Housing in Partnership (AHP)	-	-	-	-	-	-	-
d.	Beneficiary-led Individual House Construction or Enhancement	4329	527	29	25.26%	3.07%	0.16%	5493.5
e.	<b>Total Requirement (a+b+c+d)</b>	<b>17138</b>						<b>5760.5</b>

Note: \* As per estimation. Actual figures will vary at the time of implementation.

**APPRAISAL PARAMETERS:**

S.No	Parameters	Response
1	Has ULB completed the demand assessment for Urban Poor in slums and non-slum areas as per formats given in the guidelines or from existing data (source)?	Only Slum Area
2	Has the Slum Population been cross-checked with the Census 2011 data? (Yes/No)	Yes
3	Has the updated list of slums been prepared through physical verification?	Yes

  
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4	Has land ownership of all slums been listed? (Yes/No)	Yes
	If yes, then mention the number of slums in the following categories	
4.1	Central Government and its agencies/PSUs/Autonomous bodies etc.	1
4.2	State Government and its agencies/PSUs/Autonomous bodies etc.	1
4.3	Urban Local Body	1
4.4	Private (including other boards enacted under Act of Parliament)	-
	Has tenability analysis been done based on physical location, land use, land ownership for all slums? (Yes/No)	Yes
5	If yes, then mention the following	
5.1	Number of Tenable Slums	120
5.2	Number of Tenable Households	17138

## Appraisal Checklist for Housing for All Plan of Action (HFAPoA)

S.No	Parameters	Response
5.3	Number of Untenable Slums	0
5.4	Number of Untenable Households	0
6	Has the data collected on Housing condition been cross checked with Socio Economic Caste Census (SECC)? (Yes/no) If yes then mention:	Yes
6.1	Pucca Houses (no. & %)	No
6.2	Semi-Pucca Houses (no. & %)	16386,95.60%
6.3	Kutcha Houses (no. & %)	756,4.40%
	Among tenable slums, whether economic viability has been worked out for in-situ redevelopment using	Yes
7	If yes then mention:	
7.1	Number of Slums proposed for In-Situ Redevelopment	5
7.2	Number of untenable slums clubbed with slums under In-situ Redevelopment	0

  
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8	Whether the land has been earmarked for the implementation of Affordable Housing Project?	No
9	Whether vacant EWS housing stock has been identified those are available under various housing scheme for which the beneficiaries has not yet been identified? If yes, then mention the number of vacant dwelling units available	No
10	Whether State has any agencies that have capacity to implement housing schemes? If yes, then mention the name of the agencies	Yes, SUDA
11	Whether any monitoring mechanism is in place to check the progress of the construction of houses under beneficiary-led housing component?	Yes, ULB
12	Whether advocacy plan is in place or planned for promoting the CLSS component?	No
13	Whether the process for coordination has been initiated with various local banks/ HFCs which have already signed MoU with one of the CNAs (HUDCO/ NHB) for facilitation of beneficiaries under CLSS component? If yes, provide details of the initiative taken.	No
14	Have detailed strategies been developed in consultation with the beneficiaries for the four (4) verticals mentioned in the guidelines. (Yes/No)	Yes
15	Has financial plan year - wise been worked out? (Yes/No)	Yes
16	Whether Central Assistance required has been worked out for all four (4) components? (Yes/No) If yes, then mention	Yes
16	Amount of Central Assistance required (Rs. in lakhs)	
17	While formulating HFAPoA, whether financial resources from State, ULB, beneficiary has been considered? (Yes/No) If yes, then mention:	Yes

  
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17	Amount of State Contribution (Rs. in lakhs)	
17	Amount of ULB Contribution (Rs. in lakhs)	
17	Amount of Beneficiary Contribution (Rs. in lakhs)	
17	Amount from any other (source) (Rs. in lakhs)	
18	Has the draft HFAPoA been presented to the elected representatives and feedback elicited? (Yes/No)	Yes
19	Has the draft HFAPoA has been appraised by the State Level Appraisal Committee (SLAC) and approved by State Level Sanctioning & Monitoring Committee (SLSMC)? (Yes/No)	Under Process
20	Has changes in the physical targets and financial requirements in AIP from the preceding year has been transferred to HFAPoA? (Yes/No)	Yes



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## ANNEXURE-I

## Project Brief

**SCRUTINY REPORT (Based on format no 7C) FOR THE PROJECT UNDER BENEFICIARIES LED  
INDIVIDUAL HOUSE CONSTRUCTION/ENHANCEMENT COMPONENT OF PRADHAN MANTRI AWAS  
YOJANA (PMAY)**

**REFERENCE NO.:** (Communication by State/UT)

BASIC INFORMATION:			
1	Name of the State/UT	:	West Bengal
2	Name of the City	:	Bhatpara
3	Project Name	:	Housing for All
4	Project Code	:	19801695014
5	Implementing Agency	:	SUDA.
6	i) Approved Project Cost (Rs in Lakhs)	:	1169.87
	ii) Gol grant requested (Rs. in Lakhs)	:	433.5
	iii) State Grant (Rs. in Lakhs)	:	610.94
	iv) ULB/ Implementing agency share (Rs. in Lakhs)	:	53.18
	v) Beneficiary share (Rs. in Lakhs)	:	72.25
	vi) others, if any (Rs. in Lakhs)	:	0
7	Project Duration ( in months)	:	12
8	No of eligible Beneficiaries for Gol grant	:	( Details as per format 7C)
	i) No of Beneficiaries ( New Construction)		289
	ii) No of Beneficiaries ( Enhancement)		0
9	Eligible Gol grant (Rs. 1.5 lakh per eligible beneficiary) (Rs in Lakhs)	:	433.5
10	Discrepancy if any ( w.r.t. item no 6(ii) and 9)	:	

  
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ADMINISTRATIVE DETAILS			
11	Whether the Project is part of Annual Implementation Plan (AIP)?	:	Yes.
12	Date of SLSMC approval for the project	:	
13	Whether the format as per Annexure 7C of PMAY scheme guidelines has been signed by the competent authorities?	:	Under Process
TECHNICAL DETAILS			
14	Whether building plans for all houses have been approved?	:	Yes
15	Whether technical specifications/ design of housing have been ensured as per Indian Standards/NBC/State norms	:	Yes
16	Whether disaster (earthquake, flood, cyclone, landslide etc.) resistant features have been adopted in concept, design and implementation of the project? Please specify.	:	Yes
17	Whether the Detailed Project Report (DPR) has been scrutinised Central Agency? If yes, attach the DPR scrutiny Report (Annexure C).	:	Under Process.
18	Any other information ( Please specify)	:	N.A

Observations (if any): 1.

2

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**Annexure-C DPR SCRUTINY REPORT FOR THE PROJECT UNDER BENEFICIARIES LED INDIVIDUAL HOUSE CONSTRUCTION/ENHANCEMENT COMPONENT OF PRADHAN MANTRI AWAS YOJANA (PMAY)**

**NAME OF SCRUTINY AGENCY: REFERENCE NO.:**

**DATE:**

**BASIC INFORMATION:**

1	Name of the State	:	West Bengal		
2	Name of the City	:	Bhatpara		
3	Project Name	:	Housing for All		
4	Project Code	:	19801695014		
5	State Level Nodal Agency (SLNA)	:	SUDA		
6	Implementing Agency/ ULB	:	Bhatpara		
7			Total	New construct ion	Enhancement
	i) Project Cost (Rs in Lakhs)	:	1169.87	1169.87	0
	ii) Gol grant (Rs. in Lakhs)	:	433.5	433.5	0
	iii) State Grant (Rs. in Lakhs)	:	610.94	610.94	0
	iv) ULB/ Implementing agency share (Rs. in Lakhs)	:	53.18	53.18	0
	v) Beneficiary share (Rs. in Lakhs)	:	72.25	72.25	0
	vi) others, if any (Rs. in Lakhs)	:	0	0	0
8	Sources of availability of beneficiary share (self/loan/any other)	:	Self/ Loan.		
9	Project Brief:	:	( As per Annexure I)		
10	No of eligible Beneficiaries for Gol grant		( Details as per format 7C)		
11	Project duration (in months)	:	12		

  
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## BHATPARA MUNICIPALITY

ADMINISTRATIVE DETAILS			
12	Date of State Level Appraisal Committee (SLAC) approval of the project	:	Under Process.
13	Whether observations of SLAC have been incorporated?	:	Under Process.
14	Date of SLSMC approval for the project	:	
15	Whether the format as per Annexure 7C of PMAY scheme guidelines has been signed by the competent authorities.	:	Yes.
LAND DETAILS			
16	Whether selected beneficiaries have rightful ownership of land?	:	Yes.
TECHNICAL DETAILS			
17	No of proposed houses	:	
	i) New Construction		289
	ii) Enhancement	:	0
18	Whether the carpet area of proposed houses is up to 30 Sqm? If more, whether consultation with the Ministry has been done for determining the size of houses?	:	Yes.
19	Whether building plans for all houses have been approved?		Yes.
20	Schedule of Rates (SOR) adopted (Year)	:	PWD Schedule 2014.
21	Whether cost index has been taken over the SOR rates? if Yes, whether supporting documents approving the same is furnished.	:	Yes.

  
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22	Whether technical specifications/ design of housing have been ensured as per Indian Standards/NBC/State norms	:	Yes.
23	Whether disaster (earthquake, flood, cyclone, landslide etc.) resistant features have been adopted in concept, design and implementation of the project? Please specify.	:	Yes.
24	Whether statutory approvals from competent authorities have been obtained? If required	:	Under Process.
25	Whether any innovative / cost effective / green technology adopted in the project? If yes, please specify	:	N.A
26	Whether Beneficiaries have access to basic civic and social infrastructure facilities?	:	Yes.
27	How Quality Assurance is proposed to be ensured for beneficiary led construction? specify	:	Technical Monitoring of ULB.

  
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Observations of the Scrutiny Agency: 1.


2

3

**40. Beneficiary List for 15-16**

Sl. No.	Name of Beneficiary	Father's Name / Husband's Name	Holding No.	Category	Gender	UID NO.	Photo
1	AJIT HALDER	MAHADEB HALDER	1194	SC	Male	98931435 1290	
2	AMAL MONDAL	AMULYA MONDAL	931	SC	Male	89091436 4216	
3	BIJOY SARKAR	GOUR CHANDRA SARKAR	58	SC	Male	75025885 9834	
4	BRAJEN MODAK	NETAI MODAK	1058	General	Male	88277373 2415	
5	BUDDHISHWAR BISWAS	SUNIL BISWAS	1062	SC	Male	22416193 1150	
6	DIPAK BISWAS	DINABABDHU BISWAS	76	General	Male	51783055 1493	
7	FULTUSI MAJHIMONDAL	BIDYUT MONDAL	56	SC	Female	71988313 7686	

  
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## BHATPARA MUNICIPALITY

DPR-HOUSING FOR ALL

8	JHARNA DEBNATH	SWADESH DEBNATH	49	General	Female	69745675 5547	
9	KALINDI NAYEK	UDIYA NAYEK	30	SC	Male	94853026 5251	
10	KALYANI JOARDGAR	KUMARESH JOARDGAR	1179	SC	Female	88646903 9203	
11	MANINDRA GHOSH	GOUR GHOSH	81	OBC	Male	33434767 7200	
12	MANOJITMONDAL	AMAL MONDAL	1084	General	Male	67537277 5342	
13	MAYA MITRA	KASHINATH MITRA	96	SC	Female	98090138 9246	
14	PARTHA PRATIM ROY	NARAYAN ROY	1261	SC	Male	59591274 8695	
15	PRABIR BISWAS	RAMPADABISWAS	39	SC	Male	39228751 6098	

  
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**Chairman**  
 Bhatpara Municipality





## BHATPARA MUNICIPALITY

DPR-HOUSING PWD-III

16	RAMEN MONDAL	RAMANANDA MONDAL	80	SC	Male	40772489 4573	
17	RINU KABIRAJ	KHOKAN KABIRAJ	09	SC	Female	MTM3070 109	
18	SANKAR DEBNATH	BINOY KRISHNADEBNATH	1175	OBC	Male	46273915 1465	
19	SAROJ ROY	SANTOSH ROY	103	SC	Male	71002211 0756	
20	SHIRISH MALLICK	BANKIM MALLICK	99	SC	Male	29633363 2573	
21	SHYAMALI MALI	DIPANKARMALI	1128	SC	Female	65370703 6133	
22	SUMANGAL DAS	HEERALAL DAS	92	SC	Male	29815889 6721	
23	TAPAN CHAKRABORTY	MOHAN BASI CHAKRABORTY	1077	General	Male	64427565 1179	
24	ADHIR BISWAS	SUREN BISWAS	503	SC	Male	72863971 3809	

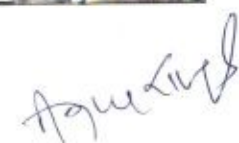
## BHATPARA MUNICIPALITY

OFFICIALS FOR ALL

25	ADHIR DAS	RABI DAS	1220	SC	Male	80348232 0612	
26	AJAY SANTRA	BAMUNDAS SANTRA	1280	SC	Male	30832483 8274	
27	AKAL DAS	DHIREN DAS	341	SC	Male	38793409 2787	
28	ALOKA DAS	BHARAT DAS	1278	SC	Female	96734796 6107	
29	AMAL DAS	NIRMAL DAS	1149	General	Male	24475654 7459	
30	AMAL DAS	SHIRISH DAS	1306	SC	Male	82333247 2845	
31	AMAL KARMAKAR	JITEN KARMAKAR	511	SC	Male	58307028 5210	
32	AMAL PAL	PANCHANAN PAL	387	OBC	Male	76563714 9479	



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Chairman  
Bhatpara Municipality



## BHATPARA MUNICIPALITY

ONE HOUSING FOR ALL

33	AMALA DAS	NIRAPADA DAS	940	General	Female	73430268 3381	
34	AMBIKA GHOSH	DILIP GHOSH	513	SC	Male	30123860 2907	
35	ANIL BISWAS	RAMCHANDRA BISWAS	491	SC	Male	42024619 8649	
36	ANITA DAS	STRIBAS DAS	1258	SC	Female	52201014 0270	
37	ANUKUL KARMAKAR	NABA KARMAKAR	507	SC	Male	22243016 1255	
38	ASIM PRAMANICK	HARENDRA PRAMANICK	501	OBC	Male	86231708 6708	
39	ASIMA DAS	NIRMAL DAS	1149	SC	Male	72167258 1923	
40	BAIDYANATH ROY	SURENDRANATH ROY	989	General	Male	95887747 9663	

  
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## BHATPARA MUNICIPALITY

41	BARUN GHOSH	ASHWINI GHOSH	970	General	Male	22753898 4798	
42	BHARAT DAS	BALAI DAS	419	SC	Male	27834992 2466	
43	BIJALI DAS	BINOY DAS	472	SC	Female	28956962 1286	
44	BISHU DAS	TARAPADA DAS	1097	SC	Male	20103851 5432	
45	BUDO DAS	ATUL DAS	336	SC	Male	29297615 4854	
46	BULU DAS	NETAI DAS	454	SC	Female	30571722 6554	
47	BULU GHOSH	GOPAL GHOSH	524/1	OBC	Female	75392042 0027	
48	CHHOTA DAS	ARIJUN DAS	947	SC	Female	44846333 2519	

  
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## BHATPARA MUNICIPALITY




49	CHHOTAN GHOSH	SAMAR GHOSH	973	OBC	Male	79443373 9108	
50	DILIP GHOSH	KALIPADA GHOSH	513	General	Male	33515428 0032	
51	DIPALI DAS	MANGAL DAS	423	SC	Female	54573263 9300	
52	GAJENDRA ROY	MANIRAM ROY	510	SC	Male	74247798 4532	
53	GANESH DAS	ATUL DAS	424	General	Male	72484383 1047	
54	GITA PRAMANIK	HARENDRA PRAMANIK	501	OBC	Female	89247970 7850	
55	GOBINDA DAS	ANUKUL DAS	428	SC	Male	65492208 4432	
56	GOPAL DAS	RAMPADA DAS	500	SC	Male	81340418 4366	

  
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**40. Beneficiary List for 15-16**

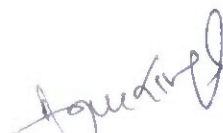
Sl. No.	Name of Beneficiary	Father's Name / Husband's Name	Holding No.	Category	Gender	UID NO.	Photo
57	GOPAL MONDAL	AMULYA MONDAL	490/2	SC	Male	953314754462	
58	GOPAL PRAMANICK	HARIPADA PRAMANICK	455	General	Male	476361879749	
59	GOUR DAS	SUREN DAS	372	SC	Male	291570953881	
60	GOURANGA DAS	NEGENDRA DAS	978	General	Male	958688233778	
61	GOUTAM GHOSH	SATYA GHOSH	1190	General	Male	442107068510	
62	HARADHAN CHOWDHURY	RADHAKANTA CHOWDHURY	493	SC	Male	611912589895	
63	INDRAJIT KARMAKAR	AMAL KARMAKAR	508	SC	Male	890172852639	
64	JHARNACHANDRA DAS	SURENDRA DAS	391	SC	Male	941292737899	

**40. Beneficiary List for 15-16**

Sl. No.	Name of Beneficiary	Father's Name / Husband's Name	Holding No.	Category	Gender	UID NO.	Photo
65	KALIPADA SANTRA	BAMUNDAS SANTRA	434	SC	Male	40986033 9452	
66	KALYANI SARKAR	ASIT SARKAR	520	SC	Female	85355997 7513	
67	KAMAL DAS	DULAL DAS	1101	SC	Male	20050436 6171	
68	KRISHNA CH. PAL	RADHARAMAN PAL	385	General	Male	72505924 0027	
69	LAKSHMAN DAS	RAJENDRA DAS	446	SC	Male	22867020 0822	
70	LAXMI GHOSH	JATIN GHOSH	945	OBC	Male	43804767 9325	










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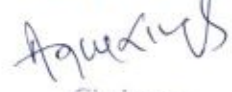


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Bhatpara Municipality

**40. Beneficiary List for 15-16**

<b>BHATPARA MUNICIPALITY</b> <b>PMAY (HFA- 2022)</b> <b>BENEFICIARY LIST OF BHATPARA MUNICIPALITY OF WARD NO:-31</b> <b>FOR THE YEAR - 2015-16</b> <b>KEWTIA PALPARA (SLUM CODE- 0085)</b>							
Sl. No.	Name of Beneficiary	Father's Name / Husband's Name	Holding No.	Category	Gender	UID NO.	Photo
71	ALOK MAJUMDER	LATE ANANTA KUMAR MAJUMDER	124	General	Male	854331935691	
72	AMODINI MONDAL	JATIN MONDAL	860	SC	Female	956007467887	
73	ANJANA DEY	MANORANJAN DEY	93	General	Female	MTM2294759	
74	ANUP BISWAS	GOLAK BISWAS	623	SC	Male	240537349188	
75	ARATI MONDAL	LATE PRITHWITH MONDAL	248/1	SC	Female	789351297195	
76	ARJUN KUNDU	LATE RADHANATH KUNDU	212	General	Male	758889312798	
77	ARUP GHOSH	SATOSH GHOSH	791	General	Male	797416045433	

  
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 Chairman  
 Bhatpara Municipality



## BHATPARA MUNICIPALITY

HPE-2018-19-2020

78	ARVIND SHAW	RAM CHANDRA SHAW	676	General	Male	59050309 1906	
79	ASIM BISWAS	UPENDRA BISWAS	276	General	Male	78500158 0723	
80	BADAL BISWAS	HARADHAN BISWAS	277	SC	Male	84562434 3372	
81	BAKUL MITRA	LT GOPAL MITRA	215	SC	Female	51591847 1289	
82	BASANA DEBNATH	LATE KRISHNA GOPAL DEBNATH	82	General	Female	30356862 8663	
83	BEBI ADHIKARI	LATE NITYA GOPAL ADHIKARI	687	General	Female	36477955 6159	
84	BELA SARKAR	LATE SUNIL SARKAR	201	SC	Female	86371400 3552	
85	BIKASH BISWAS	BIREN BISWAS	218	SC	Male	47333061 4729	



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## BHATPARA MUNICIPALITY

86	BIMAL SARKAR	SUDHIR SARKAR	161	General	Male	51151688 5312	
87	BINODINI MONDAL		310	SC	Female	85470223 6417	
88	BISWAJIT MONDAL	SATISH MONDAL	671	SC	Male	50473603 5371	
89	BISWANATH MITRA	LATE SUDHIR MITRA	9	General	Male	22101632 9555	
90	CHANDANA CHAKRABORTY	SUBHASH CHAKRABORTY	148	General	Female	26283206 3222	
91	CHANDRAMOHAN HALDER	LATE KALIPADA HALDER	10	General	Male	34291428 4464	
92	CHUNILAL KAR	LATE KUMUD BANDHU KAR	729	General	Male	70731068 9217	
93	DIPAK BANIK	RAIMOHAN BANIK	220	General	Male	56263836 9517	
94	GANESH SARKAR	RABINDRANATH SARKAR	79/1	General	Male	85965970 9012	








95	GITA ADHIKARI	LATE SANTOSH ADHIKARI	205	General	Female	37049790 1290	
96	GITA MAJUMDER	ARUN MAJUMDER	659	General	Female	81951015 6547	
97	GOKUL MONDAL	LATE JATIN MONDAL	858	SC	Male	98864430 2847	
98	GOLAK BISWAS	LATE SANTOSH KUMAR BISWAS	282	SC	Male	41130359 8024	
99	HARADHAN MONDAL	LATE ANANDA MONDAL	747	General	Male	37958941 7215	
100	HARIPADA MONDAL	LATE KESTO MONDAL	263	SC	Male	37012145 6207	
101	HEMANTA BISWAS	NIMAI BISWAS	243	SC	Male	21901713 7372	
102	INDRAJIT SIKDER	SANTOSH SIKDER	482	SC	Male	35605294 5143	
103	JAYANTA GHOSH	SURENDRA GHOSH	84	OBC	Male	53076874 4614	



## BHATPARA MUNICIPALITY


104	JAYANTI BISWAS	BINASH BISWAS	1155	SC	Female	XLL19206 69	
105	JIBAN MITRA	LATE JATIN MITRA	691	General	Male	87894547 1227	
106	KALI MONDAL	SUBHAS MONDAL	617	SC	Male	36249794 2935	
107	KALIDASI SIKDER	LATE SANTOSH SIKDER	247	SC	Female	44390996 6742	
108	KALPANA BISWAS (GHARAMI)	SUSHANTA BISWAS	759	SC	Female	88904326 3889	
109	KANAI BISWAS	JATIN BISWAS	817	SC	Male	56274873 5307	
110	KANTARANI RAKSHIT	PULAK RAKSHIT	110	General	Female	48873652 2372	
111	KANU DAS	LATE NARENDRA DAS	243	General	Male	WB/12/08 1/132567	
112	KARTICK PAUL	PHANIBHUSHAN PAUL	466	General	Male	70596947 6231	

**BHATPARA MUNICIPALITY**

113	KARTIK SARKAR	RABINDRANATH SDARKAR	79	General	Male	MTM2295103	
114	KHOKAN DURLABH	LATE BHAKTA DURLABH	494/3	SC	Male	683048811570	
115	KHOKAN KABIRAJ	DEBENDRA KABIRAJ	226	General	Male	729041492445	
116	KHOKAN PRAMANICK	LATE RABINDRANATH PRAMANICK	193	OBC	Male	304634358012	
117	KOUSHIK SARKAR	PRAFULLA SARKAR	113	General	Male	WB/12/081/132749	
118	KRISHNAPADA ROY	NITYAGOPAL ROY	106	General	Male	818220153435	
119	KUMAR SIKDER	THAKURDAS SIKDER	245	SC	Male	751952740923	
120	LAKSHMI BISWAS	KANAILAL BISWAS	208/189	SC	Female	944242667741	
121	LANKESHWAR ROY	LATE HIRALAL ROY	254	SC	Male	330108222393	

**BHATPARA MUNICIPALITY**

122	LATAMANI BISWAS	LATE JATINDRANATH BISWAS	670	SC	Female	23374019 3031	
123	LAXMAN PAUL	MANINDRA PAUL	163	OBC	Male	57477052 1554	
124	LITUNLAL KAR	KUMUD BANDHU KAR	109	General	Male	63186772 6579	
125	MADHU DURLABH	LATE BHAKTA DURLABH	494/1	SC	Male	54510089 8210	
126	MANOJIT BISWAS	SANTOSH BISWAS	520	SC	Male	50953619 6816	
127	MAYNA DURLABH	DUKHIRAM DURLABH	493	SC	Female	69001372 3984	
128	MITHU KUNDU (GHOSH)	SAGAR GHOSH	828	General	Female	62573995 5825	
129	MRINAL RAKSHIT	LATE HIMANSHU RAKSHIT	110	General	Male	64955340 9231	
130	MUKTI CHAKRABORTY	LT SUNIL CHAKRABORTY	211	General	Male	32924935 0492	

  
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Chairman  
Bhatpara Municipality



## BHATPARA MUNICIPALITY

BPP-BU FING FOR ALL

131	NAMI DURLAV	SANJIT DURLAV	495	SC	Female	54455149 2197	
132	NARAYAN PODDER	LATE GOPAL PODDER	736	SC	Male	43613638 7038	
133	NIKAIL BISWAS	BIJAY BISWAS	239	SC	Male	42018316 1875	
134	NIMAI KUNDU	RADHANATH KUNDU	647	General	Male	WB/12/08 1/132504	
135	NIRMAL MONDAL	UPENDRANATH MONDAL	208/8	General	Male	65157857 6428	
136	NIRMALA BISWAS	PRABHAS BISWAS	152	SC	Female	71792269 1811	
137	NISHIKANTA SARKAR	NEMAI SARKAR	364	General	Male	MTM3070 273	
138	PANNALAL KAR	KUMUD BANDHU KAR	91	General	Male	24075354 5284	
139	PARIMAL BISWAS	LATE BISHNUPADA BISWAS	06	SC	Male	62809225 7381	

## BHATPARA MUNICIPALITY



140	PARIMAL MONDAL	UPEN MONDAL	204	SC	Male	73068679 8094	
141	PARITOSH CHANDRA BISWAS	MAKHANLAL BISWAS	154	General	Male	44388391 1867	
142	PRABIR MONDAL	LATE PRITHWISH MONDAL	248	SC	Male	23441658 5397	
143	PRAFULLA SARKAR	LATE KARTICK SARKAR	378	General	Male	73236870 1101	
144	PRANKRISHNA DAS	SIRISH CHANDRA DAS	288	General	Male	76930477 2179	
145	PRASANTA MANDAL	LATE UPENDRA MANDAL	692	SC	Male	87360017 7954	
146	PREMKUMAR BISWAS	NIMAI BISWAS	243	SC	Male	37243999 1774	
147	PULAK RAKSHIT	LATE HIMANSHU RAKSHIT	110	OBC	Male	48873652 3720	
148	RABINDRANATH BISWAS	LATE PRAVASH CHANDRA BISWAS	674	SC	Male	58056408 0228	










## BHATPARA MUNICIPALITY

OPT-ROD SING FOR ALL

149	RAJ KUMAR SHAW	RAM CHANDRA SHAW	676	General	Male	74137830 4283	
150	RANJIT BISWAS	RABIN BISWAS	302	SC	Male	98093335 0587	
151	RATAN GHOSH	JITENDRA GHOSH	307	General	Male	21683992 2471	
152	RATAN SARKAR	NARAYAN SARKAR	399	SC	Male	37672781 8836	
153	RATAN SIKDER	PANCHANAN SIKDER	472	SC	Male	50188508 6193	
154	SAMIR ROY	LATE SOMESHWAR ROY	265	General	Male	98269248 8089	
155	SANDHYA BISWAS	KALYAN BISWAS	80	SC	Female	42961793 5222	
156	SANJAY KUMAR BALA	LATE RAJENDRANATH BALA	227	SC	Male	67889899 9885	
157	SANJOY DAS	SWAPAN DAS	12	General	Male	26785862 0261	



158	SANTOSH GHOSH	MAKHAN GHOSH	49	General	Male	94346816 3430	
159	SASIM GHOSH	SUBOL GHOSH	269	SC	Male	62576965 7580	
160	SHYAMAL KUMAR MAJUMDER	BUBHUTI BHUSHAN MAJUMDER	166	SC	Male	43038680 2306	
161	SISIR SARKAR	LATE SUDHIR SARKAR	140	SC	Male	43673239 2678	
162	SUBASH BISWAS	DHIRAJ BISWAS	403	SC	Male	66866117 4296	
163	SUKUMAR KABIRAJ	ADHIR KABIRAJ	238	SC	Male	WB/12/08 1/132196	
164	SUSHAMA SARKAR	BIMAL SARKAR	161	General	Female	87709238 3636	
165	SWAPAN BISWAS	JAYDEB BISWAS	913	SC	Male	61005843 3712	
166	SWAPAN SARKAR	SUDHIR SARKAR	159	General	Male	WB/12/08 1/132472	

167	TAPAN KUMAR TALAPATRA	KALIDAS TALAPATRA	285	General	Male	78649474 3093	
168	TAPAN SARKAR	LATE NITYAGOPAL SARKAR	199	General	Male	84859200 4147	
169	TARAK BISWAS	BIRESHWAR BISWAS	240	General	Male	62684815 6082	
170	TARUN MAJUMDER	LATE NANIGOPAL MAJUMDER	744	General	Male	WB/12/08 1/132572	
171	TULIKA DURLABH	MANGAL DURLABH	493	SC	Female	XLL17353 37	
172	TULSI SARKAR	LATE NITYAGOPAL SARKAR	221/203	General	Female	34528723 1507	
173	YADAB MONDAL	LATE UPEN MONDAL	204	SC	Male	41180948 0107	
174	ABHIJIT MONDAL	AROBINDO MONDAL	283/1	SC	Male	4402658	
175	ABHIMNYA MONDAL	LT. NAGAR MONDAL	190	SC	Male	WB/12/08 1/138477	

## BHATPARA MUNICIPALITY

CPE-40/5/15/2022

176	ABHOY GHOSH	LT. MOLIN GHOSH	160	OBC	Male	29260874 3265	
177	AJIT BISWAS	LT. UMESH BISWAS	174	SC	Male	77458839 8649	
178	AJIT ROY	LT. PROMOD ROY	222	SC	Male	33181532 9337	
179	AMAL SAHA	LT. RADHA KRISHNA SAHA	288	General	Male	60559844 4265	
180	ANANDA BISWAS	LT. NATAI BISWAS	184	OBC	Male	44601984 9731	
181	ANANDA DAS	LT. UPENDRA DAS	254	General	Male	43498332 9969	
182	ANGUR BALA DAS	LT. LAXMAN DAS	236	SC	Female	74386744 4585	
183	ANIL DURLAV	LT. SONATAN DURLAV	138	SC	Male	24496244 0811	
184	ANIMA SHARMA	LT. CHANDI PROSAD SHARMA	157	General	Female	35407536 7471	



## BHATPARA MUNICIPALITY


THE MASTERS OF ALL










185	ANIMESH MONDAL	ARABINDU MONDAL	282	SC	Male	WB/12/08 1/138331
186	ARABINDA BISWAS	LT. RAKHAL BISWAS	210	SC	Male	63353073 8788
187	ARABINDU MONDAL	LT. AMULYA MONDAL	198/1	SC	Male	37479638 9140
188	ARATI PATRA	LT. CHATTA RANJAN PATRA	221	SC	Female	79342053 9411
189	ARCHANA SARKAR	LT. SHKHENDU SARKAR	169	General	Female	36272730 0491
190	ARUN BISWAS	LT. KHUSINATH BISWAS	255	SC	Male	WB/12/08 1/138210
191	ASIT MONDAL	LT. KRISHNA PADA MONDAL	249	SC	Male	70366363 0932
192	ATUL ROY	BIJOY ROY	300	SC	Male	63333418 7949
193	BABLU DAS	LT. KHITISH DAS	203	General	Male	WB/12/08 1/138050



## BHATPARA MUNICIPALITY

BETTER LIVING FOR ALL

194	BADAL BANIK	LT. RADHA CHARAN BANIK	217	OBC	Male	72658638 8610	
195	BAPI BISWAS	LT. VOBEN BISWAS	215	SC	Male	70847098 7403	
196	BASANTI SEN	LT. KRISHNA SEN	146	OBC	Male	97684632 8431	
197	BHABANI DAS	LT. SWAPAN DAS	208	General	Female	318643	
198	BHARAT ADHIKARI	LT. VIM CHANDRA ADHIKARI	387	General	Male	74021070 9559	
199	BHOLANATH BISWAS	LT. RABINDRANATH BISWAS	193	General	Male	87449434 9649	
200	BICHITRA SARKAR	LT. GANESH SARKAR	209	SC	Female	65965721 1613	
201	BIDUIT BISWAS	LT. BINOY BISWAS	266	SC	Male	24521179 6213	
202	BIJOY MAJUMDER	LT. JAGADISH MAJUMDER	264	SC	Male	36943095 9696	

203	BIKASH BISWAS	LT. BINOY KRISHNA BISWAS	266	SC	Male	36453400 8260	
204	BIMAL BISWAS	PROFULLYA BISWAS	251	SC	Male	67665867 8411	
205	BIMAL HALDER	LT. ATUL HALDER	239	SC	Male	48442131 8961	
206	BIPLAB DUTTA	PRODIP DUTTA	153	General	Male	86913948 7145	
207	BIPLAB SAHA	LT. KARTIC SAHA	200/1	General	Male	2.37E+11	
208	BISHNUPADA BISWAS	LT. BRINDABAN BISWAS	143	SC	Male	39701905 1810	
209	BISHNUPADA MONDAL	AROBINDO MONDAL	282/2	SC	Male	38996241 0544	
210	BISWANATH DAS	LT. PRANABALLABH DAS	272	SC	Male	43528389 4022	
211	CHATTYA RANJAN MANDAL	LT. KHOKAN MANDAL	218	OBC	Male	36687894 3177	










## BHATPARA MUNICIPALITY


DFR-HOUSING FOR ALL

212	CHHOTTU DURLAV	SUNIL DURLAV	147/2	SC	Male	76541575 4317	
213	CHITTYA RANJAN BISWAS	LT. ANUKUL BISWAS	195	OBC	Male	37369921 4970	
214	DASHARATH BISWAS	LT. TARAPADA BISWAS	194	OBC	Male	72665260 5227	
215	DEBKUMAR SAHA	LT. NIRAPADA SAHA	228	General	Male	22245985 6696	
216	DHIREN BISWAS	LT. GADADHAR BISWAS	299	SC	Male	48149960 1247	
217	DILIP BISWAS	LT. RANJIT BISWAS	394	General	Male	63292422 0068	

  
Engineer  
Bhatpara Municipality

  
Chairman  
Bhatpara Municipality

<b>BHATPARA MUNICIPALITY</b> <b>PMAY (HFA- 2022)</b> <b>BENEFICIARY LIST OF BHATPARA MUNICIPALITY OF WARD NO:-85</b> <b>FOR THE YEAR - 2015-16</b> <b>STHIRPARA(SLUM CODE- 00120)</b>							
Sl. No.	Name of Beneficiary	Father's Name / Husband's Name	Holding No.	General	Gender	UID NO.	Photo
218	ANIL KUNDU	LT BISWANATH KUNDU	15	General	Male	655821590326	
219	ARABINDU DAS	LT- JITWENDRA NATH DAS	78	General	Male	WB12081135638	
220	ARJUN DURLAV	RAMPRASHAD DURLAV	462	SC	Male	415325913396	
221	ARUN DURLAV	LT SATISH	64	SC	Male	895190249989	
222	BAABULAL DURLAV	TENTUL	489	SC	Male	395159982840	
223	BABLU DAS	LT JITENDRA NATH DAS	540	General	Male	352387297552	
224	BABLU DAS	LT JITERNDRA NATH DAS	540	General	Male	352387267552	

  
 Engineer  
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 Chairman  
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225	BHARART DURLAV	LT NITAI	631	SC	Male	84885214 3911	
226	BHIM DURLAV	LT KALIPADA DURLAV	461	SC	Male	55998052 2783	
227	BIKASH SARKAR	LT NITAI GOPAL	79	General	Male	24972536 2835	
228	CHANDI CHARAN DEY MAJUMDER	LT BINAD CHANDRA DEY MAJUMDER	473	General	Male	21777288 0775	
229	CHATAN DURLAV	ANATH BANDHUI DURLAV	77/1	SC	Male	82881953 2937	
230	DILIP DUTTA	LT HARRICHARAN DUTTA	10	General	Male	91263046 1449	
231	DILIP MAJUMDER	LT BISWASWAR	479	General	Male	83088972 4722	
232	DINABANDHU MONDAL	NANI MONDAL	83	SC	Male	MTM2991 347	
233	DIPEN SAHA	LT HIRALAL	38	General	Male	78902616 5446	



234	DULAL CHANDRA SARKAR	LT NITYANANDA	478/408	General	Male	00000000 0000	
235	GANESH GHOSH	LT SUDHIR	84	General	Male	69721394 0000	
236	JAGADISH DUTTA	LT CHARAN DUTTA	9	General	Male	72595216 2733	
237	JAYANTI DAS SARKAR	LT BISWSAJIT	372/315	General	Female	30540131 7722	
238	KAJAL BISWAS	LT- KASHINATH BISWAS	457	General	Male	WB12081 135129	
239	KAMAL DAS	LT JITENDTRA NATH DAS	353	General	Male	WB12081 135863	
240	KARUNA BISWAS	KASHINATH BISWAS	457	SC	Male	28385289 0050	
241	KRISHNA CHAKRABORTY	LT SHIBPRASAD	61/54	General	Male	26621453 7201	
242	KRISHNA GOPAL DAS	LT- JITENDRABNATH DAS	721/32	General	Male	98992783 8508	

## BHATPARA MUNICIPALITY







243	MAHASN DURLAV	ANATH BANDHU	77/2	SC	Male	43002927 8591	
244	NANDA DURLAV	TENTUL	76	SC	Male	55926384 4250	
245	NANIBALA SARKAR	LT BISWANATH	18	General	Female	30611090 3222	
246	NILPADA CHAKRABORTY	LT SHIBPRASAD	29	General	Male	70505142 1796	
247	PANCHUGOPAL DURLAV	LT PATAL DURLAV	103	SC	Male	69557818 8620	
248	PARUL SAHA	LT- GOBINDA SAHA	35	General	Female	38600612 5822	
249	PRABIR BISWAS	SUKESH	82	General	Male	28604645 7684	
250	PROLAD GHOSH	MUKUNDA DULAL GHOSH	99	General	Male	28280545 4623	
251	RAMPRASHAD DURLAV	LT- NALIN DURLAV	462	SC	Male	48041630 5349	

## BHATPARA MUNICIPALITY

252	RATAN HALDER	GOBINDA HALDER	43	SC	Male	72964295 5484	
253	REKHA SAHA	JIBAN	83	General	Female	25564774 9114	
254	SAMAR GHOSH	LT- KHAGENDRA GHOSH	24	General	Male	42372891 2176	
255	SANDHYARANI DURLAV	LT-MANASH DURLAV	461	SC	Female	99038833 3800	
256	SANTANA PAUL	RATAN PAUL	25	General	Female	91743272 4048	
257	SHEFALI DURLAV	NILMANI DURLV	101/82	SC	Female	35030763 4851	
258	SHITAL DAS DURLAV	TENTUL	489/1	SC	Male	21915352 9217	
259	SOUMEN SAHA	LT HIRALAL	38	General	Male	30263376 3229	
260	SUNIT SAHA	SWAPAN	37	General	Male	22326324 8507	



## BHATPARA MUNICIPALITY

261	SURANJAN DURLAV	RAMPRASHAD DURLAV	462	SC	Male	78862631 8282	
262	AJAY SAHA	BADAL SAHA	202	General	Male	53118267 5815	
263	AMAL KUMAR MAJUMDER	LATE DHIRENDRA	529	General	Male	66879386 1771	
264	ARATI ROY	LATE SHIBU	536	General	Female	53030123 6311	
265	BHUBAN DAS CHOWDHURY	LATE NARENDRANATH	256	General	Male	63829824 6535	
266	BIJALI BISWAS	BHAKTI CH. BISWAS	250	SC	Female	96263753 4524	
267	BIKASH KUMAR SAHA	BADAL SAHA	606	General	Male	35991711 5173	
268	BINDHAN PAUL	AMAL KRISHNA	199	General	Male	96482398 6868	
269	BIPLAB DEBNATH	LATE MANINDRA	297	General	Male	26310148 5255	

BHATPARA MUNICIPALITY

271	BISHWANATH GHOSH	LATE DEBENDRA	137	OBC	Male	69593097 2149	
272	CHABI PRAMANIK	LT SUNIL	253	General	Female	38785743 4268	
273	DIPTI DEY	NARAYANN CHANDRA DEY	500	General	Female	23356649 2430	
274	GAURI ROY	LATE NIRANJAN	135	General	Male	83843742 2894	
275	GOPALI GHOSH	LT NIRMAL GHOSH	358	General	Female	#####	
276	GOUTAM DAS	NIMAI	176	General	Male	86869269 7546	
277	GOUTAM SARKAR	JURAN	238	General	Male	79477523 9149	
278	GOUTAM SARKAR	JURAN SARKAR	238	General	Male	79477523 9149	
279	JIBAN SARKAR	RAIMOHAN SARKAR	252	General	Male	47775256 8576	

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280	JOYDEB KUNDU	JAGABANDHU	603	General	Male	59903424 8907	
281	KEKA DEY	BISHNU	364	General	Female	27138095 8495	
282	KRISHNA GHOSH	SHYAMAL KANTI	271	General	Male	44113777 9045	
283	LAKSHMIKANTA SHARMA	LATE BASANTA	206	General	Male	54766990 7720	
284	MAHADEB SAHA	GOPENDRA	221	General	Male	64967471 1907	
285	MALAYMOHAN GHOSH	RAMMAHAN	527	General	Male	69226618 1582	
286	MANTU GHOSH	DIP NARAYAN GHOSH	261	General	Male	78984540 5462	
287	MITHU HALDER	LATE HAREKRISHNA	180	SC	Female	26199463 4833	

  
**Engineer**  
 Bhatpara Municipality

  
**Chairman**  
 Bhatpara Municipality



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288	MONIKA DAS CHOWDHURY	SANTU DAS CHOWDHURY	256	General	Female	24481031 1411	
289	NABENDRA GHOSH	DIP NARAYAN GHOSH	600	General	Male	66114230 8303	

  
**Engineer**  
**Bhatpara Municipality**

  
**Chairman**  
**Bhatpara Municipality**