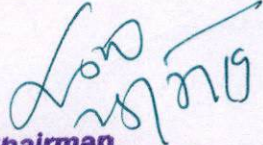


Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	NA
Self Help Groups/DWCUA Groups in Slum	Within distance of 0.50 km
No. of Neighbourhood Groups (NHGs) in slum	Within distance of 0.50 km
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/Mahila Samithis	NA

24. AMBEDKAR COLONY

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Within distance of 0.50 km
Municipal Pre-school	NA
Private Pre-school	NA
Primary School	
Municipal	NA
State Government	Within distance of 0.50 km
Private	NA
High School	
Municipal	NA
Private	Within distance of 1.0 km
State Government	Within distance less than 1.0 km
Adult Education Centre	NA
Health Facilities	Within distance 0.50 km
Urban Health Post	NA
Primary Health Centre	NA
Government Hospital	Within distance less than 1.0 km

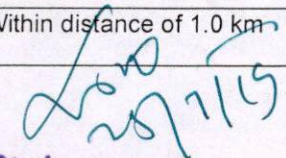

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Mathabhanga Municipality
Mathabhanga, Coochbehar

405

Maternity Centre	NA
Private Clinic	Within distance of 0.50 km
Registered Medical Practitioner (RMP)	Within distance of 0.50 km
Ayurvedic Doctor/Vaidya	Within distance of 0.50 km
Social Development/Welfare	Within distance of 1.0 km
Community Hall	Within distance of 0.50 km
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	NA
Self Help Groups/DWCUA Groups in Slum	Within distance of 0.50 km
No. of Neighbourhood Groups (NHGs) in slum	Within distance of 0.50 km
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/Mahila Samithis	NA

25. ASHUTOSH COLONY

Education & Social Infrastructure	
Pre-primary School	
Anganwadi under ICDS	Within distance of 0.50 km
Municipal Pre-school	NA
Private Pre-school	NA
Primary School	
Municipal	NA
State Government	Within distance of 0.50 km
Private	NA
High School	
Municipal	NA
Private	Within distance of 1.0 km


 Chairman
 Mathabhanga Municipality
 Mathabhanga, Coochbehar

State Government	Within distance less than 1.0 km
Adult Education Centre	NA
Health Facilities	Within distance 0.50 km
Urban Health Post	NA
Primary Health Centre	NA
Government Hospital	Within distance less than 1.0 km
Maternity Centre	NA
Private Clinic	Within distance of 0.50 km
Registered Medical Practitioner (RMP)	Within distance of 0.50 km
Ayurvedic Doctor/Vaidya	Within distance of 0.50 km
Social Development/Welfare	Within distance of 1.0 km
Community Hall	Within distance of 0.50 km
Livelihood/Production Centre	NA
Vocational Training/Training cum Production Centre	NA
Street Children Rehabilitation Centre	NA
Night Shelter	NA
Old Age Home	NA
Self Help Groups/DWCUA Groups in Slum	Within distance of 0.50 km
No. of Neighbourhood Groups (NHGs) in slum	Within distance of 0.50 km
Slum-dwellers Association	NA
Youth Association	NA
Women's Association/Mahila Samithis	NA

The Supply Demand Gap and Requirements

Particular Requirements

Housing: Dwelling Unit provision for Households with standard provisions:

- 1 Multipurpose Room
- 2 Bed Room
- 3 Kitchen
- 4 Toilet
- 1 W.C

Physical Infrastructure Requirement: Standard Infrastructure Provision for

- Water Supply
- Drainage
- Roads
- Electricity


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Mathabhanga Municipality
Mathabhanga, Coochbehar

Project Development Option :

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

Proposed Development

Based on preliminary understanding, the following components are being proposed

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

Innovations proposed in Project Planning

Background

Housing activities are known to have the Capacity to play a significant role in social-economic development, because they help not only in creation of shelter for the people by also ingenerating employment opportunities for a large variety skilled and unskilled work force which is a prerequisite for growth and development of settlement. A considerable section of the people without land are in a still worse position as housing schemes for the poor have hither to been targeted on paper but not applied in practice. Both the serviced land and shelter have become beyond the reach for half of the population-hence formation of slums, encroachments, informal colonies and unauthorized constructions. No land is ear marked for Economically Weaker Sections and Low Income Groups in Master Plan. The population density norms are required to re-look to enable better utilization of valuable land, as certain are as in the town. This growing slum population and the lack of basic facilities like water and sanitation will badly impact on overall development and prosperity of urban centres like Municipality.

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

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

Financial Implementation:

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

Tasks:

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

Post Project Monitoring

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

Physical Infrastructure

Background

The National Sample Survey Organization (NSSO) in the Ministry of Statistics and Programme Implementation, Government of India has released the report of a nation-


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Mathabhanga Municipality
Mathabhanga, Coochbehar

wide survey carried out by it during July 2008 to June 2009 (65th round) on the condition of urban slums.

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

Comprehensive data on this subject was last collected by NSSO in its 58th round (July-December 2002). The present report provides key indicators from the 58th round as well, for comparison.

Some important findings of the survey are given below.

- About 49 thousand slums were estimated to be in existence in urban India in 2008-09, 24% of them were located along nallahs and drains and 12% along railway lines.
- About 57% of slums were built on public land, owned mostly by local bodies, state government, etc.
- In 64% of notified slums, a majority of the dwellings were pucca, the corresponding percentage for the non-notified ones being 50%.
- For 95% slums, the major source of drinking water was either tap or tube wells.
- Only 1% notified and 7% non-notified slums did not have electricity connection.
- About 78% of notified slums and 57% of the non-notified slums had a pucca road in side the slum.
- About 73% notified and 58% non-notified slums had a motorable approach road.
- About 48% of the slums were usually affected by water logging during monsoon—32% with inside of slum water logged as well as approach road to the slum, 7% where the slum was water logged but not the approach road, and 9% where only the approach road was water logged in the monsoon.
- The sanitary conditions in the slums in terms of latrine facility during 2008-09 showed considerable improvement since 2002. Latrines with septic tanks (or similar facility) were available in 68% notified and 47% non-notified slums (up from 66% and 35% respectively in 2002). At the other extreme, 10% notified and 20% non-notified slums (down from 17% and 51% in 2002) did not have any latrine facility at all.
- About 10% notified and 23% non-notified slums did not have any drainage facility. The corresponding proportions in 2002 had been 15% for notified and 44% for non-notified slums. Underground drainage systems or drainage systems constructed of pucca materials existed in about 39% notified slums (25% in 2002) and 24% non-notified slums (13% in 2002).
- Underground sewerage existed in about 33% notified slums (30% in 2002) and 19% non-notified slums (15% in 2002).
- Government agencies were collecting garbage from 75% notified and 55% non-notified slums. Among these slums, garbage was collected at least once in 7 days


Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

- in 93% notified and 92% non-notified slums. About 10% notified and 23% non-notified slums did not have any regular mechanism for garbage disposal.
- Over the last five years, facilities had improved in about 50% of notified slums in terms of roads (both within-slum road and approach road) and water supply. The incidence of deterioration of any of the existing facilities in notified slums during the last five years was quite low (about 6% or below).
 - In case of most slum facilities—sewerage and medical facilities being exceptions—the facility was reported to have improved during the last five years in more than 20% of non-notified slums. Deterioration of any of the existing facilities in non-notified slums, like notified slums, was rare (about 9% or below).
 - Facilities such as street light, latrine, drainage, sewerage and medical facilities were each reported by more than 10% of notified slums to be non-existent both at the time of survey and five years earlier. In case of non-notified slums, facilities like street light, latrine, drainage, sewerage and garbage disposal were each reported by more than 20% of the slums to be non-existent, both during the survey and five years earlier.
 - Where improvement had been brought about during the last 5 years, it was due to the
 - Government's efforts in about 80-90% of slums, both notified as well as non-notified and for all the facilities. Improvement in educational facilities at primary level was attributed to NGOs in 13% of the notified slums where such improvement was reported. NGOs were also found to have played a role in the improvement of latrine and sewerage system in non-notified slums.

Topographical survey and GIS mapping

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

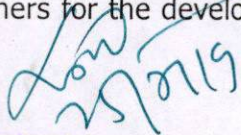
Based on the Total Station survey and Socio-economic survey GIS based thematic maps were generated. This helped in accurate representation of the ground scenario with that of the socio-economic conditions of the people. The following GIS maps were generated for inclusive planning:

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

Drainage

Proposal Rationale

The status of adequate Drainage has a close and direct link with environment, water supply and its cleanliness, health and hygiene. The problem of adequate drainage associated with steep influx of population in urban areas, therefore needs to be addressed forth with, debated and deliberated at length, by the policy planners for the development


Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

of urban/town areas. Inadequate Drainage results in accumulation of stagnant water and is a major health hazard for the people living in the region.

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

Outcome

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

Assessment Overall State of Infrastructure

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

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

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

Situation gets beyond control particularly during mon soon season like July and August. Accumulated water causes to generate public health problems. Haphazard growth and settlement in the slum area

Has blocked the natural drainage courses, which in turn causes water logging and stagnation in

Different parts of the slum.

Proposed Interventions

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

Road Infrastructure

Proposal Rationale

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

Roads in the slum are undeveloped and ill maintained. Poor roads are strong barrier to the development of the slums. Poor road condition and absence of road facility in several


Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

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

Proposed status and strategy

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

One of the major issues is absence of proper maintenance. In view of this it is proposed that the entire road network is to be converted to concrete pavement as concrete pavements are durable and easy to maintain.

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

Proposed Intervention

All the proposed roads are rigid pavement-cement concrete roads. Rigid pavements are those which posses note worthy 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) 200mmthick. Construction of 150 mm thick cement concrete pavement, as per Clause 1501.2.2 M 30(Grade), as per drawing and Technical Specification Clause 1501.

Outcome

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

Definition of Slum for Housing

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

a. All areas notified as „Slum“ by State/Local Government and UT Administration under any Act;


Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

b. All are as recognized as „Slum“ by State/Local Government and UT Administration, which have not been formally notified as slum under any Act;

'Slum' or 'Slum Area'—is a compact settlement of atleast 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 within adequate sanitary and drinking water facilities in unhygienic conditions.

Situation Appraisal

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

Proposed Intervention

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

Building type	Number of Dus
In situ single Unit	375 within 24 slums and 64 units within non slums

Building Plan :

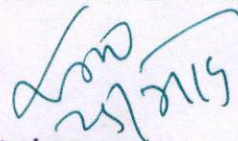
The buildings are proposed to cover an area of approximate 32S q.mt along with provision of 2 rooms, kitchen and sanitation facility. The layout, size and type design of housing dwelling units depends on the local conditions and the preferences of the beneficiary. The houses, has been designed in accordance 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 25sq.mts and preferably two room accommodation plus kitchen and toilet should be constructed.

Building material :

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

Structural Design

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



Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

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

Design data

- Live load : 2.0kN/m² at typical floor
- 1.5kN/m² on terrace (With Access): 0.75kN/m² on terrace (without Access)
- Floor finish 50 mm (0.05*24)= : 1.2kN/m²
- Ceiling plaster 12mm (0.012*20.8): 0.25kN/m²
- Partition walls (Wherever Necessary): 1.0kN/m²
- Terrace finish: 1.5kN/m²
- Earthquake load: As per IS-1893(Part1)- 2002
- Depth of foundation below ground: 0.7m
- Walls: 250mm thick brick masonry walls at external and 125mm walls internal.

Reference codes:

- IS456: 2000-Code of practice-Plain and Reinforced concrete.
- IS1893:2002- 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 earth quake)for buildings and structures.(Part-2)

Identification of Beneficiaries :

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

Allotment of Houses :

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

Town Planning Norms :

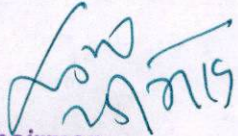
Up-gradation of existing constructions and construction of new houses shall only be taken after approval of the layout by the urban local body. Respective State Govts. May relax some town planning norms for sanction of such layout Plans, to facilitate HOUSING SCHEME, however, minimum acceptable standards of Town Planning will need to be set and followed. All planning are done as per UDPFI & CPHEEO guidelines and local Municipal Bye-laws.

Compliance with Municipal Bye laws :

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

Tenure

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


Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

Summary of Investment

Project Costing :

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

The cost components include:

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

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

Other costs :

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

Land : Own land of Beneficiary.

GOI Contribution:

PMAY scheme guidelines stipulate that, 1.5 lakhs of the unit cost of Dwelling unit. The Central share would be available as per milestones set out in Memorandum of Agreement (MoA).

Beneficiary Contribution:

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

State Contribution:

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

ULB Contribution:

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

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

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

Project Cost and Financing Strategy

25/7/15
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Mathabhanga Municipality
Mathabhanga, Coochbehar

For Dwelling Unit

Total no of Dwelling unit	= 281 Nos	
Rate per Dwelling unit	= 3.68 Lakhs	
Total Cost of Dwelling unit	= 281 x 3.68	= 1034.08 Lakhs
Central Share	= 281 x 1.50 Lakhs	= 421.50 Lakhs
State Share	= 281 x 1.93 Lakhs	= 542.33 Lakhs
Beneficiary Share	= 281 x 0.25 Lakhs	= 70.25 Lakhs
ULB Share	= NIL	

For Infrastructure

10 % of total Dwelling unit cost	= 1034.08 Lakhs x 10%	= 103.41 Lakhs
Central Share	= NIL	
State Share	= 50% x 103.41 Lakhs	= 51.705 Lakhs
Beneficiary Share	= NIL	
ULB Share	= 50% x 103.41 Lakhs	= 51.705 Lakhs
The total project cost will be	= 11.37 crores	

Out of these 11.37 Crores is the cost of Housing Infrastructure. The following table shows the share of cost between housing infrastructure & Physical Infrastructure.

Table : Cost Break up between Housing & Infrastructure

Sl. No.	Component	Cost on Lakhs
1.	Housing Cost (2019-20) Dwelling Units	1034.08
2.	Infrastructure Cost	103.41
Total		1137.49

Sector wise Monitoring and Implementation Plan

Background :

A strong implementation plan and administration frame work is essential for implementation of the identified projects that require strengthening of the Municipality and evolution of a Community Structure.

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

National Level

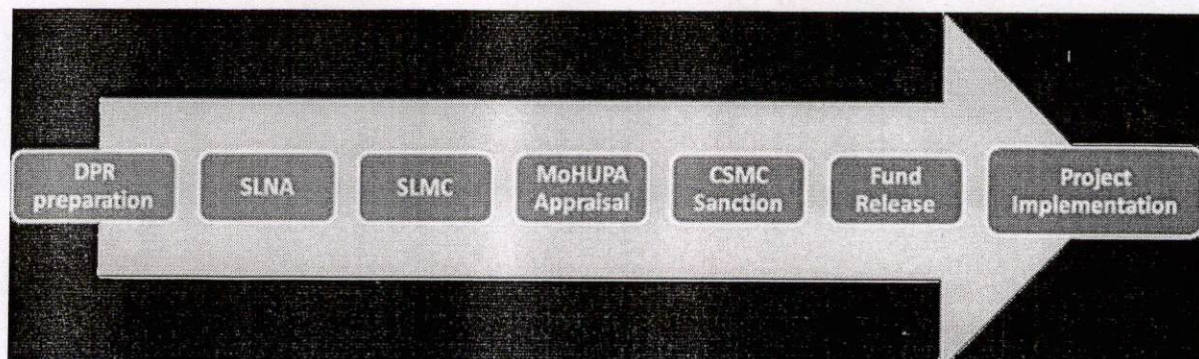
PMAY Mission Directorate :

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


Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

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 etc¹



Mathabhanga Municipality

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

The BWMC will have representatives of local councillor, Chairman-in-Council, municipal engineers,

Town project officer, community organizers and member from the local slum dwellers.

Some of the responsibilities of BWMC are listed below :

- i. Delineation of poverty pockets in this town to execute the scheme.
- ii. Recruitment of community organizers
- iii. Guiding and assisting the community organizer to form neighbourhood group (NHG) and for identification of RCVs.
- iv. Formation of NHCs and CDs.
- v. Constitution of town level planning and monitoring committee (TLPMC).
- vi. Liaison with CMOH and other concerned district level officers and NGOs for conference.
- vii. Regular contact with SUDA and Department of Municipal Affairs.
- viii. Convening meeting of TLPMC to take stock of programme implementation and convergence.
- ix. Dovetail all poverty alleviation programmes with IHSDP.
- x. Obtain regular feedback from CD Sand send the required monthly progress report to SUDA by the end of first week of the next month in the prescribed MIS format.

Participation through Beneficiary committees

People's participation in municipal planning and development is critical and shall be ensured

Through of Ward Committees in each ward irrespective of their population and size.

The Ward Committee Rules have also been framed in such a way so as to ensure involvement of the members of the Ward Committees in the overall municipal administration and resource mobilization. The Ward Committee created especially for the

20/07/19
Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

purpose of PMAY will be headed by the Councillor of the Ward, who would in turn submit the report of progress to BWMC.

Some of the responsibilities the Ward Committee will be :

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

Participation through Community Based Organization :

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

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

Social Infrastructure

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

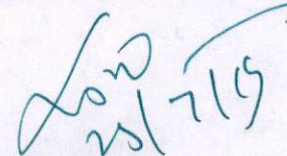
In the first step, community health facilities will be provided from centrally located Community Seva Kendra in slum pockets and for different type of imparting education and other training purpose, Community Centre will be put in place.

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

Thus not with standing the guidelines in this regard, following alternatives will be tried:

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

Physical Infrastructure


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Mathabhanga, Coochbeher

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

- i. Assess water supply needs and identify spots for tap.
- ii. Develop water supply plan.
- iii. Train RCVs in hand pump maintenance.
- iv. Develop slum level water and sanitation committee.
- v. Test water quality periodically.
- vi. Construct platform around each hand pump that does not have it already.
- vii. Identify needs for community bathing cubicles for women and selecting ideal spot for constructing the same
- viii. Identify sites for building community toilets cum water points.
- ix. Link community toilets to biogas plant(on experimental basis).
- x. Improve the conditions of drains, soak pits and solid waste disposable bins.

Other Environmental Improvement Measures

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

Creating income and employment opportunities for women

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

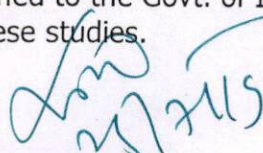
Housing

Monitoring

Officers dealing with HOUSING SCHEME at the State headquarters shall visit the slums regularly and ascertain through field visits whether the programme is being implemented satisfactorily and whether the construction of houses is in accordance with the prescribed norms. A schedule of inspection which prescribes a minimum number of field visits for each supervisory level functionary from the State level to the corporation level shall be drawn up and strictly adhered to.

Evaluation Studies

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



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Modality of implementation

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

Transparency in implementation of Housing Scheme

The list of items on which information would be made available to people to bring about greater

Transparency at the State, District and Corporation levels is given below:

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

Monitoring & Evaluation

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

- Ministry of Housing and Urban Poverty Alleviation will periodically monitor the scheme.
- State Nodal Agency would send Quarterly Progress Report (on-line) to the Ministry of Housing and Urban Poverty Alleviation.
- Upon completion of a project, the State Nodal Agency, through the State Government, would submit completion report to the Central Government.
- Central Sanctioning-cum-Monitoring Committee will meet as often as required to sanction

And review/monitor the progress of projects sanctioned under the Mission.

- States/Cities will be facilitated through independent quality control/assurance/third party team sat various levels that may be out sourced to specialized/technical agencies.
- Monitoring of projects by States/Urban Local Bodies by conducting Social Audit in conformity with guidelines to be prescribed, right from the stage of project preparation. processes of implementation will be monitored by undertaking concurrent evaluation
- Through reputed independent institutions to ensure that corrections to distortions, oversights or short comings can be made in time.


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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 District:	:	Coochbehar						
3	Name of the City:	:	Mathabhanga						
4	Project Name:	:	Hfa-Mathabhanga -2019-20						
5	Project Code:	:	19801645044N0						
6	State Level Nodal Agency:	:	State Urban Development Agency						
7	Implementing Agency/ ULB	:	Mathabhanga Municipality						
8	Date of Approval by State Level Sanctioning and Monitoring Committee (SLSMC)	:							
9	No. of location covered in project: No of Slum Area Covered & No of Non Slum Area Covered	:	Name of Location	No. of beneficiaries	Whether Slum / Non-Slum	If Slum, then Slum type	If slum, whether it gets completely rehabilitated		
		:	Mathabhanga Municipal Area	281	Covering both Slum & Non-Slum area	Notified	No		
10	Project Cost (Rs. In Lakhs)	:							
11	No. of beneficiaries covered in the project	:	GEN	SC	ST	OBC	Total	Minority	Person with Disability
		:	197	47	01	36	281	29	0
	Whether beneficiary have been selected as PMAY Guidelines?	:	Yes						
13	No. of Houses constructed / acquired. Please specify ownership (Any of these)	:	Joint	Female	Male	Transgender			
		:	0	60	221	0			
14	No. of beneficiaries covered in the project	:	Male	Female	Transgender				
		:	221	60	0				
15	Whether it has been ensured that selected beneficiaries have rightful ownership of the land ?	:	Yes						
16	Whether building plan for all houses have been Approved?	:	Yes						
17	i. GoI grant required (Rs. 1.5 lakh per eligible beneficiary) (Rs. in Lakhs)	:	421.50						
	ii. State grant, (Rs. in Lakhs)	:	594.03						

(Signature)
Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

	iii. ULB grant (Rs. in Lakhs)	:	51.70
	iv. Beneficiary Share (Rs. in Lakhs)	:	70.25
	v. Total (Rs. in Lakhs)	:	1137.49
18	Whether technical specification / design for housing have been ensured as per Indian Standards / NBC/ State Norms?	:	Yes
19	Whether it has been ensured that balance cost of construction is tied up with State Grant, ULB Grant & Beneficiary Share ?	:	Yes
	Whether trunk and line infrastructure is existing or being provisioned ?	:	
	i. Water Supply	:	No
	ii. Sewerage	:	No
	iii. Road	:	Yes
	iv. Storm Water Drain	:	Yes
	v. External Electrification	:	No
	vi. Solid Waste Management	:	No
	vii. Any Other	:	No
	viii. In case, any infrastructure has not been proposed, reason thereof.	:	No
20	Whether disaster (earthquake, flood, cyclone, landslide etc.) resistant features have been adopted in concept, design and implementation of the project ?	:	Yes
21	Whether Demand Survey Completed for entire city ?	:	Yes
22	Whether City-wide integrated project have been formulated ? If not reasons thereof ?	:	Yes
23	Whether validation with SECC data for housing condition conducted ?	:	Yes
24	Whether Direct Benefit Transfer (DBT) of fund to individual bank account of beneficiary ensured in the project ?	:	Yes
25	Whether there is provision in DPR for tracking/monitoring the progress of individual houses through geo-tagged photographs ?	:	Yes


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Mathabhanga, Coochbehar

26	Whether any innovation/cost effective / Green technology adopted in the project?	:	Yes
27	Comments of SLAC after techno economic appraisal of DPR	:	Project covers the most needy beneficiaries
28	Project brief including any other information ULB/State would like to furnish	:	The project covers all wards
29	Project Submission Date to SLSCM	:	

It is hereby confirmed that State/UT and ULB have checked all the beneficiaries as per guidelines 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.

[Handwritten Signature]
27/7/19

Signature of the *Chairman*
Mathabhanga Municipality

Signature
Chief Engineer
M.E Dte,GoWB

Signature
(Director,SUDA)

Signature
(Secretary,UD & MA Department,GoWB)

[Handwritten Signature]
27/7/19
Chairman
Mathabhanga Municipality
Mathabhanga, Cochin

Executive Summary

Project Details

1	Name of the State:	:	West Bengal
2	Name of the District:	:	Coochbehar
3	Name of the City:	:	Mathabhanga
4	Project Name:	:	Hfa-Mathabhanga -2019-20
5	Project Cost (Rs. in Lakhs)	:	1137.49
6	Central Share (Rs. in Lakhs)	:	421.50
7	State Share (Rs. in Lakhs)	:	594.03
8	ULB Share (Rs. in Lakhs)	:	51.70
9	Beneficiary share (Rs. in Lakhs)	:	70.25
10	Total Infrastructure Cost (Rs. in Lakhs)	:	103.41
11	Percentage of Infrastructure Cost of Housing Cost	:	10%
12	Infrastructure Cost per Dwelling Unit (Rs. in Lakhs)	:	0.368
13	Year of Implementation	:	2019-20
14	Component Housing Construction	:	Beneficiary Led Construction (BLC)
15	SOR Adopted	:	PWD (WB) w.e.f 1.11.17 with current corrigendum

Project Contributions (Physical + Financial) (Rs. in Lakh)

Sl	Scheme Component	Type	Qty	Unit	Rate (in Rs/Unit)	Proposed Project Cost (In Lakh)	Appraised Project Cost (In Lakh)	Central Share (Rs. 1.5Lakh/ DU)	State Govt. Share (Rs. 1.93Lakh/ DU)	ULB Share	Beneficiaries Share @ 0.25 Lakh/DU)
A. HOUSING											
1	New in-situ										
	Single Storied Units	BLC	281	Nos	368000.00	1034.08	1034.08	421.50	542.33	0.00	70.25
Total Housing Cost Sub Total (A)						1034.08	1034.08	421.50	542.33	0.00	70.25
B. INFRASTRUCTURE											
C.											
Sl	Scheme Component	Type	Qty	Unit	Rate (in Rs/Unit)	Proposed Project Cost (In Lakh)	Appraised Project Cost (In Lakh)	Central Share (Rs. in Lakh)	State Govt. Share (@50%) (in Lakh)	ULB Share (@50%) (in Lakh)	Beneficiaries Share (in Lakh)
IROADS											
	BITUMINOUS ROAD	Bitu. Rd.	4805.00	Sqm.	647.74	31.12	31.12	0.00	15.56	15.56	0.00


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Mathabhanga, Coochbehar

2 STORM WATER DRAINS											
	Concrete Drain	Conc. Drain.	1092.00	Mtrs.	6619.68	72.29	72.29	0.00	36.145	36.145	0.00
	Total Infrastructure Cost Sub Total (B)					103.41	103.41	0.00	51.705	51.705	0.00
	GRAND TOTAL (A+B)					1137.49	1137.49	421.50	594.03	51.71	70.25

[Handwritten Signature]
25/7/19

Signature of the ULB level
Competent Technical officer
Mathabhanga Municipality
Name & Designation: **NIRMAL BARMAN**
S.A.E

Fax No:

Telephone No:

Sub-Assistant Engineer
Mathabhanga Municipality
Mathabhanga :: Coochbehar

E-mail:

Signature of the State level
Competent Technical
Officer

Name & Designation: Chief Engineer, MeDte, GoWB
Bikash Bhavan, South Block, 1st Floor, Salt lake, Kol-91
Fax No: 033-23375474

Telephone No:

033-23371331

E-mail:

ce_medte@yahoo.
com

[Handwritten Signature]
29/7/19

Signature

Director(SUDA)

Name & Designation: Debarati Dutta Gupta
Director, SUDA

Fax No: 033-23585767

Telephone No: 033-23585767

E-mail: wbsudadir@gmail.com

Signature of the Chairman
Mathabhanga Municipality

Name & Designation: LAKSHAPATI
PRAMANIK

Fax No:

Telephone No: 03583 255255

E-mail: hfa.mathabhanga@gmail.com

[Handwritten Signature]
29/7/19
Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

(Para 8.6 & Para 14.4 of the Guidelines)
Summary Sheet for Annual Implementation Plan (AIP) for the year 2019-20

Admissible Components	Target for Year 2015 -16	Achievement for Year 2015 -16	Target for Year* 2016 -17	Achievement for Year* 2016 -17	Target for Year** 2017-18	Achievement for Year* 2017-18	Target for Year** 2018-19	Achievement for Year* 2018-19	Target for Year** 2019-20	Remaining Targets as per HFAPoA
A. Beneficiary-led Construction	63	63	439	439	0	0	760	760	281	1224
• New Houses	0	0	0	0	0	0	0	0	0	0
• Enhancement	0	0	0	0	0	0	0	0	0	0
• - Sub Total (A)	63	63	439	439	0	0	760	760	281	1224
B. In-Situ Slum Rehabilitation with Participation of Private Sector										
• Number of Slums	0	0	0	0	0	0	0	0	0	0
• Number of Households (B)	0	0	0	0	0	0	0	0	0	0
C. Affordable Housing in Partnership (EWS Category) ©										
D. Credit linked subsidy										
• EWS Households	0	0	0	0	0	0	0	0	0	0
• LIG Households	0	0	0	0	0	0	0	0	0	0
• Sub Total (D)	0	0	0	0	0	0	0	0	0	0
E. Total (A+B+C+D)	63	63	439	439	0	0	760	760	281	1224

NO TARGET SO FAR

NO TARGET SO FAR

NO TARGET SO FAR

Note: *The year preceding to the year of this AIP

** The year for which Annual Implementation Plan has been prepared

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Vathabhanga Municipality
Athabhanga, Cochin

I. Subsidy for Beneficiary-led Individual House Construction or Enhancement

I. Beneficiary-led Individual House Construction or Enhancement									
Year *	No. of		Resource Mobilization (Rs. in Crores)						
	New Housing	Enhancement of existing House	New Housing	Enhancement of existing housing	Total Cost	Central Share	State share	Beneficiary Share	ULB share (if applicable)
2015-16	63	0	2.32	0	2.32	0.95	1.22	0.16	NA
2016-17	439	0	16.16	0	16.16	6.59	8.47	1.10	NA
2017-18	0	0	0.00	0	0.00	0.00	0.00	0.00	NA
2018-19	760	0	27.97	0	27.97	11.40	14.67	1.90	NA
2019-20	281	0	10.34	0	10.34	4.22	5.42	0.70	NA
2020-21									
2021-22									
Total	1543	0	56.78	0	56.78	23.15	29.78	3.86	NA

Note: * Please fill the projected figures for the year for which AIP is proposed and actual figures of achievement for preceding years

** Total Cost per dwelling unit Rs. 3.68 /- Lakhs


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Mathabhanga, Coocchatbehar

II. Slum Rehabilitation of Slum Dwellers with Participation of Private Sector

Year *	No. of Slums	No. of Beneficiaries	Resource Mobilization (Rs. in Crores)				Beneficiary Share	ULB share (if applicable)
			Total Cost	Central Share	State share	Beneficiary Share		
2015-16	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
2016-17	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
2017-18	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
2018-19	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
2019-20	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
2020-21								
2021-22								
Total	N.A	N.A	N.A	N.A	N.A	N.A	N.A	

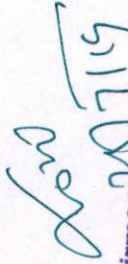
Note: * Please fill the projected figures for the year for which AIP is proposed and actual figures of achievement for preceding years

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 25/7/19
Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

III. Affordable Housing in Partnership with Public & Private Sectors

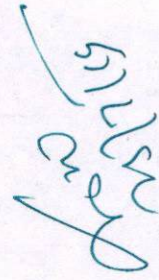
Year *	Number of Projects	No. of Beneficiaries	Total Project Cost (AHP)	Resource Mobilization (Rs. in Crores)			ULB Share (if applicable)
				Central Share	State Share	ULB Share (if applicable)	
2015-16	N.A	N.A	N.A	N.A	N.A	N.A	N.A
2016-17	N.A	N.A	N.A	N.A	N.A	N.A	N.A
2017-18	N.A	N.A	N.A	N.A	N.A	N.A	N.A
2018-19	N.A	N.A	N.A	N.A	N.A	N.A	N.A
2019-20	N.A	N.A	N.A	N.A	N.A	N.A	N.A
2020-21							
2021-22							
Total	N.A	N.A	N.A	N.A	N.A	N.A	N.A

Note: * Please fill the projected figures for the year for which AIP is proposed and actual figures of achievement for preceding years


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Mathabhanga, Coochbehar

IV. Affordable Housing through Credit Linked Subsidy						
Year *	Credit Link Subsidy Availed for	Number of Beneficiaries Availed Loan		Resource Mobilization (Rs. in Crores)		
		EWS	LIG	Estimated Loan	Estimated Interest Subsidy Availed	
		EWS	LIG	EWS	LIG	LIG
2015-16	New Housing Enhancement (Existing Housing)					NO TARGET FOR THIS YEAR
2016-17	New Housing Enhancement (Existing Housing)					NO TARGET FOR THIS YEAR
2017-18	New Housing Enhancement (Existing Housing)					NO TARGET FOR THIS YEAR
2018-19	New Housing Enhancement (Existing Housing)					NO TARGET FOR THIS YEAR
2019-20	New Housing Enhancement (Existing Housing)					NO TARGET FOR THIS YEAR
2020-21	New Housing Enhancement (Existing Housing)					NO TARGET FOR THIS YEAR
2021-22	New Housing Enhancement (Existing Housing)					NO TARGET FOR THIS YEAR
	Total					NO TARGET FOR THIS YEAR

Note: * Please fill the projected figures for the year for which AIP is proposed and actual figures of achievement for preceding years



Signature of the Mayor/ Chairperson/
Municipal Commissioner

Chairman
Mathabhanga Municipality
Mathabhanga, Cochin

Signature
(Director, SUDA)

Slum Wise Housing List

Sl. No.	Ward No.	Name of Slum	Total No. of Beneficiary
1	1	HARIJAN PALLY & MANMOHAN PARA	09
2	1	SHAKHARU PATTY & PART OF PROMOD NAGAR COLONY	00
3	1	PROMOD NAGAR COLONY	20
4	12	NETAJI PARA COLONY	19
5	12	NAZURAL PALLY	08
6	12	DESHBANDHUPARA COLONY	07
7	7	FOREST OFFICE PARA	00
8	7	NEW HOSPITAL PARA	16
9	7	SHAKTINAGAR COLONY	07
10	8	GOURIYA MATH PARA	13
11	8	DESHBANDHU COLONY	06
12	2	NRIPENDRA NARAYAN COLONY	05
13	5	REBATI RAMAN COLONY	13
14	6	BIDHAN PALLY	08
15	9	PANCHANAN PARA	11
16	9	PASCHIM TARI	19
17	9	TRINATH COLONY	06
18	10	PACHAGARH COLONY	13
19	10	MAHANANDA COLONY	08
20	10	KANDUAR TARI	08
21	11	NAGAR MATHABHANGA COLONY	21
22	11	FAKIRAR KUTHI COLONY	00
23	3	NIVEDITA COLONY	00
24	4	AMBEDKAR COLONY	00
25	6	ASHUTOSH COLONY	02

Non Slum Wise Housing List

Sl. No.	Ward No.	Name of Slum	Total No. of Beneficiary
1	1	FALAKATA ROAD	02
2	2	PURBA PARA	13
3	3	MORANGA ROAD	05
4	3	NEW TOWN PARA	11
5	3	THANA PARA	03
6	3	IMMIGRATION ROAD	00
7	4	MADAN BARI ROAD	00
8	6	AMLA PARA	12
9	10	JADULAL PALLY	00
10	11	BANDH ROAD	06
11	11	SLK ROAD	10


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Mathabhanga, Coochbehar

FUND FLOW PATTERN


Rupees in lakhs

SL. NO	NAME OF THE SCHEME	TOTAL DUE	ESTIMATED COST	YEAR				
				1st Year				
				GOI	GOWB	ULB	Beneficiaries	Total
1	PMAY-HFA 2019-20 MATHABHANGA MUNICIPALITY	281	3.68	421.50	594.034	51.704	70.25	1137.49
	Total		3.68	421.50	594.03	51.70	70.25	1137.49

YEARWISE PHASING OF FUND

Rupees in lakhs

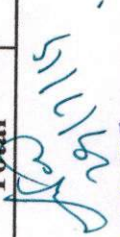
YEAR	RELEASE OF FUND				
	GOI	ULB	GOWB	Beneficiaries	TOTAL
1st Year	421.50	51.70	594.03	70.25	1137.49
TOTAL	421.50	51.70	594.03	70.25	1137.49


 Sub-Assistant Engineer
 Mathabhanga Municipality
 Mathabhanga, Coochbehar

REQUIREMENT OF FUND

Rupees in lakhs

SL. NO	NAME OF THE SCHEME	1st Year	TOTAL
1	PMAY-HFA 2019-20 MATHABHANGA MUNICIPALITY	1137.49	1137.49
Total		1137.49	1137.49


 Chairman
 Mathabhanga Municipality
 Mathabhanga, Coochbehar

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 & 7th Corrigena

Coochbehar Mathabhanga Sub Div.)

Floor Area 25.37 sqm

SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	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. a) Depth of excavation not exceeding 1500mm . SOR, PWD, P-1, I -2 a	13.000	%cu.m	12047.00	1566.11
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. SOR, PWD, P-1, I/3 a	11.120	%cu.m	7831.00	870.81
	(B) Filling in foundation or plinth by fine sand in layers not exceeding 150mm as directed and consoling dating the same by through saturation with water, ramming complete including the cost of supply of sand.(Payment to be made on measurement of finished quantity) SOR, PWD, P-2, I/4(B)	8.000	%cu.m	44973.00	3597.84
3	Supplying Laying Polithin Sheets etc. SOR, PWD, P-45, T - 13	22.000	sqm	25.00	550.00
4	Cement concrete with graded Stone 30mm down graded shingles excluding shuttering.a) In ground floor and foundation.1 : 3 : 6 proportion SOR, PWD, Page 24 ; Item -10 a	3.500	cu.m.	3835.00	13422.50
5	25 mm. thick damp proof with cement concrete (1:1.5:3) (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 carriage of all materials complete. SOR, PWD, P-45, I-13	6.810	sqm,	314.00	2138.34
6	Brick work with 1st class bricks in cement mortar (6:1) a) In foundation and plinth. b) In super structure SOR, PWD, P-29, T -22(a), (b)	10.430 15.240	cum cum	5233.00 5458.00	54580.19 83179.92
7	125mm thick brick work with 1st. class bricks in cement mortar (4:1). a) In ground floor SOR, PWD, P-31, I -29	23.220	sq.m.	724.00	16811.28
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. (ii) River Bazree SOR, PWD, P-14, T -7(i)	3.940	cu.m.	5600.00	22064.00
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 drawing and direction. (a) For works in foundation, basement and upto roof of ground floor / upto 4m. (i) Tor steel/Mild steel. SOR, PWD, P-27, T -15(i)	0.309	MT	63049.00	19500.43

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Sl No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
10	Hire and labour charges for shuttering with centreing 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 works. (upto roof of ground floor). (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.) SOR. PWD. P-26. I -12(a) 25 mm. to 30 mm. thick wooden shuttering as per decision & direction of Engineer-in-charge. Ground Floor	37.063	M ²	351.00	13009.11
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. A) With 6:1 cement mortar. a) Inside wall 20 mm thick plaster SOR, PWD, P-151, I -2 (i)(b) b) Out side Wall, 15mm th. SOR, PWD, P-151, I -2 (i)(c) B)10mm th ceiling plaster (4:1) SOR, PWD, P-151, I -2 (i)(c)	116.940	sq.m.	171.00	19996.74
		111.950	sq.m.	148.00	16568.60
		23.330	sq.m.	135.00	3149.55
12	Neat cement punning about 1.5mm thick in wall, dado, window, sills, floor, drain etc. SOR, PWD, P-152, I -8	26.700	sq.m.	39.00	1041.30
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 @ 1.75 kg./sq.m. all complete including all materials and labour. In ground floor. 3 mm. thick topping (High polishing grinding on this item is not permitted) with ordinary cement. 20mm thick SOR. PWD. P-40. I -3 (i)	26.490	sq.m.	272.00	7205.28
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) fitted and fixed complete as per direction. 40mm x 6mm x 125 mm length. (Cost of cement concrete will be paid separately) SOR. PWD. P-90. I -18 (c)	34	each	22.00	748.00
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 SOR, PWD, P-85, T -1(i)	0.213	cu.m.	40549.00	8636.94
16	Panel Shutter of door & Window (each Panal Consisting Of single Plan without Join) 25 mm thick shutter with 12 mm thick Panal of size 30 to 45 cm. Other Local wood SOR, PWD, P-105, I -84 (iv)c	8.520	sq.m.	1436.00	12234.72
17	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. a)75mm x 47mm x 1.70mm SOR. PWD. P-91. T -20(iv)	32.000	each	34.00	1088.00
18	Iron Socket Bolt of approved quality fitted and fixed complete. i) 150 mm long x 10 mm dia SOR, PWD P-93, I-25,c	11.000	each	71.00	781.00
19	Synthetic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer(As per manufacturer's specification) including cleaning and smoothing of surface. Two coats SOR, PWD P-157, I-11	124.960	sq.m.	73.00	9122.08

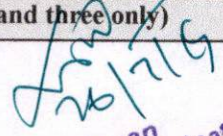
SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
20	Applying decorative cement based paint of approved quality after preparing the surface including the same thoroughly(plastered or concrete surface)as per manufactures specification. In ground floor: Coats 158, I-16	100.560	sq.m.	53.00	5329.68
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 SOR, PWD, P - 162, I - 7(a) 2) On Steel Surface SOR, PWD, P - 162, I - 7(b)	21.690 2.700	sq.m. sq.m.	41.00 31.00	889.29 83.70
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 b) On Steel surface Two Coats SOR, PWD, P - 162, - 8A(aii),(bii)	21.690 2.700	sq.m. sq.m.	89.00 86.00	1930.41 232.20
					0.00
	Supplying, fitting and fixing 1st quality ceramic tiles in walls and floors to match with the existing work and 4 nos. of key stones (10mm) fixed with araldite at the back of each tiles and finishing the joins with white cement mixed with colouring oxide if required to match the concrete surface, if necessary or by synthetic adhesive and grout materials etc. (B) Wall PWD, P-52, I-30	8.600	sq.m.	843.00	7249.80
23	Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16 mm dia with center bolt and round fitting. 300 mm long SOR, PWD, P-93, I - 27c	2.000	each	193.00	386.00
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 Cement & steel required for this item will not be issued by deptt. SOR, PWD, P-32, I - 38 (b)	1.690	sq.m.	351.00	593.19
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. SOR, PWD, P173, I - 21 A (ii), C(ii), D(ii) i) UPVC Pipe 110 mm dia ii) UPVC Bend 87.5 degree 110 mm dia iii) UPVC Shoe 110 mm	3.000 2.000 1.000	Mtr. each each	291.00 162.00 128.00	873.00 324.00 128.00
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 SOR, PWD, P - 76, I - 10 (i) (2.70sqm @ 10.5kg per sqm = 28.35 kg)	0.284	Qntl	8247.00	2342.15
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 SOR, PWD, (Sanitary) P - 65, I - 1 (iii)	1.000	each	9184.00	9184.00

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SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
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. SOR, PWD, (Sanitary) P - 66, I - 9	1.000	Pair	70.00	70.00
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 SOR, PWD, (Sanitary) P - 54, I - 14(B-iii)	1.000	each	923.00	923.00
30	Supplying, fitting fixing CI Round Gratings 150mm dia SOR, PWD, (Sanitary) P - 55, I - 18(ii)	1.000	Each	100.00	100.00
	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 of EIC.(ANNEXURE-II)	1	Item	7544.00	7544.00
TOTAL AMOUNT			Rs.		350045.15
Say			Rs.		350045.00
Add for Electrical Works (ANNEXURE-I)			Rs.		17858.00
TOTAL AMOUNT			Rs.		367903.00
(Rupees Three lakh Sixty seven thousand nine hundred and three only)					


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**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 P.No-1, I-2(a)	2.500	%Cu.M	12047.00	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.	0.050	Cu.M	5803.06	290.15
3	Brick work with 1st class bricks in cement mortar (6 :1). a) In foundation & Plinth P.no-29, I-21(a)	0.010	Cu.M	5719.00	57.19
4	125 mm. thick brick work with 1st class bricks in cement mortar (4 : 1) G.Floor P.no-31, I-29	3.000	SqM	714.00	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 P.no-12, I-6(a)	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 P.no-27, I-15(a)(i)	0.010	M.T	68508.00	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 P.no-173, I-21(A)(ii)	4.000	Mtr	291.00	1,164.00
	ii) UPVC Bend 87.5 degree 110 mm dia P.no-174, I-21(B)C(ii)	2.000	Each	162.00	324.00
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 .P.no-32, I-35	2.000	SqM	792.00	1,584.00
Total=					7,543.97
Total=					7,544.00

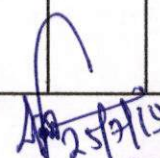
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Page 1 of 1

ESTIMATE FOR ELECTRICAL WORKS FOR ONE DWELLING UNIT UNDER HFA

(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	39.00	25.00	975.00
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 pre-laid GI fish wire & making necessary connections as required.	RM	76.00	50.00	3800.00
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 piano key type switch (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	828.00	10.00	8280.00
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	76.00	2.00	152.00
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 pre-laid polythene pipe & by the pre-laid 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	86.00	15.00	1290.00

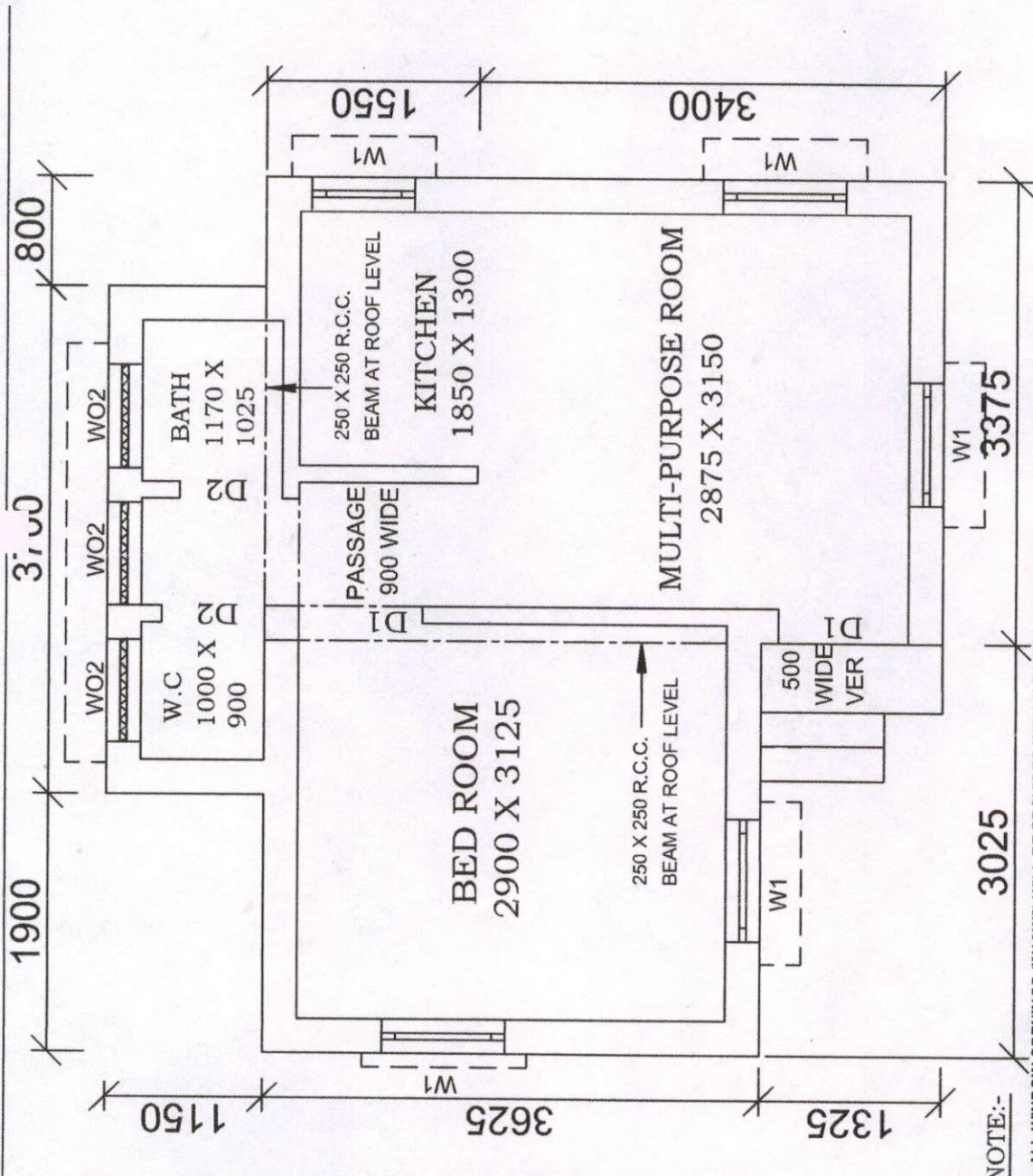

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Sl.No	Item of works	Unit	Rate	Quantity	Amount
6	Supplying Delivery & instalation on wall of 30/32 amp DP MCBof Havel's make with enclosed box along with all its necessary 1 connection complete.(Anchor)	nos	808.00	2	1616.00
7	Earthing in soft soil with 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 partlyunder the ground level & partly above GL driven to an average depth of 3.65 m below the GL & restoring surface duly rrammed.	each	1715.00	1	1715.00
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	6.00	5	30.00
				TOTAL	17858.00
Rupees Thirteen Thousand Eight Hundred Seventy Eight Only					17858.00


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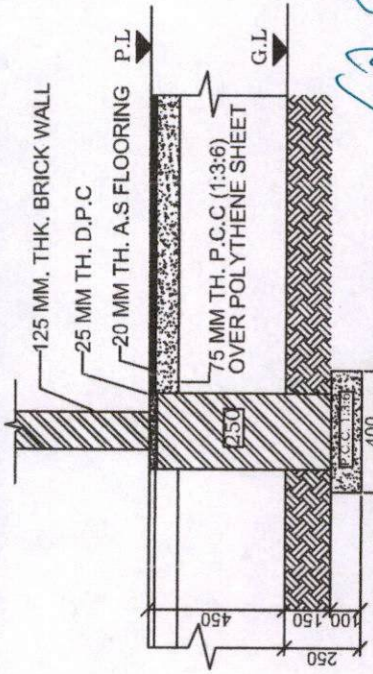


DOORS & WINDOWS SCHEDULE	
MARKING	DIMENSION
W1	900 X 900
W2	750 X 900
W02	750 X 750
D1	900 X 2100
D2	750 X 2100

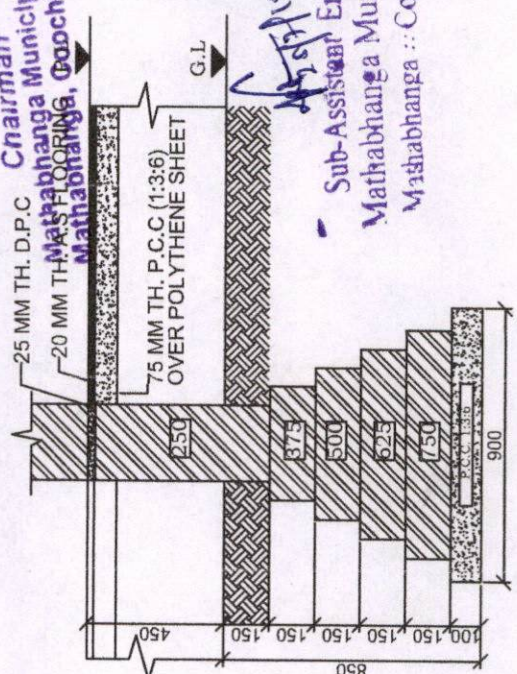
- NOTE:-
1. ALL WINDOW OPENINGS (W1&W2) WILL BE PROVIDED WITH Z-BATTEN SHUTTERS.
 2. ALL DOORS (D1&D2) - 25TH Z-BATTEN SHUTTERS, SINGLE LEAF.
 3. W02 - OPENING PROVIDED WITH R.C.C. JALLI.
 4. PLINTH HEIGHT - 450 TH.
 5. CEILING HEIGHT - 2750 TH.
 6. MAIN WALL - 250 TH.
 7. PARTITION WALL - 125 TH.
 8. ROOF SLAB, BEAM, LINTEL, ETC. WITH REINFORCED CEMENT CONCRETE M20 GRADE.
 9. FLOOR OF VERANDAH, WC, BATH, & KITCHEN ROOM TO BE KEPT 15 MM BELOW THE FLOOR LEVEL OF ROOM & PASSAGE.
 10. 100 MM TH. PIECE LINTEL OVER OPENING HAVE BEEN PROVIDED.
 11. ALL DIMENSION ARE IN MM.

FLOOR AREA - 25.77 SQM.
 BUILT UP AREA - 32.58 SQM.

FOUNDATION DETAILS



125 MM THK. BRICK WALL



250 MM THK. BRICK WALL

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 Mathabhanga Municipality
 Mathabhanga, Coochbehar

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Sub-Assistant Engineer
 Mathabhanga Municipality
 Mathabhanga, Coochbehar

PRADHAN MANTRI AWAS YOJANA
 HOUSING FOR ALL (URBAN)

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

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

Mathabhanga Municipality
Chart of Infrastructure Development (Slum Wise)

1. Concrete Drain

Sl.No	Name of the Slum	Slum Code	Ward No	Quantity	Unit	Rate	Amount (Rs.)
1	Harijan Pally & Manmohan Para	20001	1	91.00	mt.	6620	602420.00
2	Sakharu Pally & Part of Pramad Nagar	20002	1				
3	Promode Nagar Colony	20003	1				
4	Netaji Para Colony	20004	12	46.00	mt.	6620	304520.00
5	Najrul Pally	20005	12	45.00	mt.	6620	297900.00
6	Deshbandhy Colony	20006	12				
7	Forest office para	20007	7	45.00	mt.	6620	297900.00
8	New Hospital Para	20008	7	46.00	mt.	6620	304520.00
9	Shakti Nagar Colony	20009	7				
10	Gouringa Math Para	20010	8	46.00	mt.	6620	304520.00
11	Deshbandhy para Colony	20011	8	45.00	mt.	6620	297900.00
12	Nripendra Narayan Colony	20012	2	45.00	mt.	6620	297900.00
13	Rebati Raman Colony	20013	5	45.00	mt.	6620	297900.00
14	Bidhan Pally	20014	5	46.00	mt.	6620	304520.00
15	Panchanan Para	20015	9	30.00	mt.	6620	198600.00
16	Pashim Tari	20016	9	30.00	mt.	6620	198600.00
17	Trinath Colony	20017	9	31.00	mt.	6620	205220.00
18	Pachagar Colony	20018	10	45.00	mt.	6620	297900.00
19	Mohananda Colony	20019	10				
20	Kandurar Tari	20020	10				
21	Nagar Mathabhanga Colony	20021	11	45.00	mt.	6620	297900.00
22	Fakirar Kuthi Colony	20022	11				
23	Nivedita Colony	20023	3	45.00	mt.	6620	297900.00
24	Ambedkar Colony	20024	4	45.00	mt.	6620	297900.00
25	Ashutosh Colony	20025	6	45.00	mt.	6620	297900.00
				Total=	816.00 mt.	Total=	5401920.00

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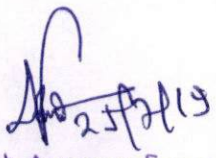
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 Mathabhanga Municipality
 Mathabhanga, Coochbehar

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Chart of Infrastructure Development (Non Slum Wise)

1. Concrete Drain

Sl.No	Name of the Non-Slum	Ward No	Quantity	Unit	Rate	Amount (Rs.)
1	Falakata Road	1				
2	Purba Para	2	46.00	mt.	6620	304520.00
3	Moranga Road	3	46.00	mt.	6620	304520.00
4	New Town Para	3				
5	Thana Para	3				
6	Immigration Road	3				
7	Madanbari Road	4	46.00	mt.	6620	304520.00
8	Amla Para	6	46.00	mt.	6620	304520.00
9	Jadulal Pally	10	46.00	mt.	6620	304520.00
10	Bundh Road	11	46.00	mt.	6620	304520.00
11	Sitalkuchi Road	11				
			Total=	276.00 mt.	Total=	1827120.00


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Chart of Infrastructure Development (Slum Wise)

2. Bituminous Road

Sl.No	Name of the Slum	Slum Code	Ward No	Quantity	Unit	Rate	Amount (Rs.)
1	Harijan Pally & Manmohan Para	20001	1	400.00	sqm.	648.00	259200.00
2	Sakharu Pally & Part of Pramad Nagar	20002	1				
3	Promode Nagar Colony	20003	1				
4	Netaji Para Colony	20004	12	400.00	sqm.	648.00	259200.00
5	Najrul Pally	20005	12				
6	Deshbandhy Colony	20006	12				
7	Forest office para	20007	7				
8	New Hospital Para	20008	7	400.00	sqm.	648.00	259200.00
9	Shakti Nagar Colony	20009	7				
10	Gouringa Math Para	20010	8	400.00	sqm.	648.00	259200.00
11	Deshbandhy para Colony	20011	8				
12	Nripendra Narayan Colony	20012	2				
13	Rebati Raman Colony	20013	5	400.00	sqm.	648.00	259200.00
14	Bidhan Pally	20014	5				
15	Panchanan Para	20015	9	400.00	sqm.	648.00	259200.00
16	Pashim Tari	20016	9				
17	Trinath Colony	20017	9				
18	Pachagar Colony	20018	10				
19	Mohananda Colony	20019	10	400.00	sqm.	648.00	259200.00
20	Kandurar Tari	20020	10				
21	Nagar Mathabhanga Colony	20021	11	405.00	sqm.	648.00	262440.00
22	Fakirar Kuthi Colony	20022	11				
23	Nivedita Colony	20023	3				
24	Ambedkar Colony	20024	4				
25	Ashutosh Colony	20025	6				
				Total=	3205.00 sqm.	Total=	2076840.00


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Mathabhanga Municipality

Chart of Infrastructure Development (Non Slum Wise)

2. Bituminous Road

Sl.No	Name of the Non-Slum	Ward No	Quantity	Unit	Rate	Amount (Rs.)
1	Falakata Road	1				
2	Purba Para	2	400.00	sqm.	648.00	259200.00
3	Moranga Road	3				
4	New Town Para	3	400.00	sqm.	648.00	259200.00
5	Thana Para	3				
6	Immigration Road	3				
7	Madanbari Road	4	400.00	sqm.	648.00	259200.00
8	Amla Para	6	400.00	sqm.	648.00	259200.00
9	Jadual Pally	10				
10	Bundh Road	11				
11	Sitalkuchi Road	11				
			Total=	1600.00 sqm.	Total=	1036800.00


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Sub-Assistant Engineer
Mathabhanga Municipality
Mathabhanga :: Coochbehar


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Estimate for Strengthening of Bituminous Road in different slums and non-slums area under the project of Housing For All within Mathabhanga Municipality

Estimate is prepared as per P.W.D.Roads Schedule of rates w.e.f 30.08.2018 with upto date corrigendum (upto 5th corrigendum)

Considering 100 sqm. Area of road

Items no	Description of item	Quantity	Rate	Amount
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Item no.1
P-331
It-18.02 Picking up and removing old bituminous layer or sand sealing coat from old black topped surface and cleaning the exposed surface by scraping and stacking the material as directed.
a) By Manual means
i) From 25 mm to 50 mm thick

$$25.00 \times 4.00 = 100.00 \text{ m}^2$$

Qty. to be executed

$$50 \% \text{ of } 100.00 = 50.00 \text{ m}^2$$

@ Rs. 22.60 /m² Rs. 1130.00

Item no.2
P-251
i.02 Providing and applying tack coat with Cationic Bitumen Emulsion of approved grade conforming to IS:8887-1978 on the prepared surface cleaned with Hydraulic broom, moistening the surface including cost and carriage of emulsion, hire charges of machinery and labour, cost of fuel and lubricants all complete as per Clause 503 of Specifications for Road & Bridge Works of MoRT&H (5th Revision).

(i) On Bituminous Surface
(Using Bitumen Emulsion at the rate of 0.20 to 0.30 kg per sqm.)

By manual Means

$$25.00 \times 4.00 = 100.00 \text{ m}^2$$

@ Rs. 11.31 /m² Rs. 1131.00

Item no.3
P-252
It-5.04 **Bituminous Macadam using Mobile Hot MixPlant(LightDuty):-** Providing and laying bituminous macadam with Mobile Hot Mix Plant (Light Duty) using approved crushed aggregates of specified grading as per Table 500.4 premixed with bituminous binder, transported to site laid over a previously prepared surface at specified laying temperature by means of approved and suitable arrangements to the required grade, level and alignment and rolled with suitable power roller for break down, inter-mediate and finished rolling as per specification to achieve the desired compaction including cost and carriage of stone materials and bitumen, hire charges of machinery and equipment, cost of fuel and lubricants and wages of operational staff, quality control complete as per Specifications for Road & Bridge Works of MoRT&H (5th Revision).

(With Pakur Variety Stone Chips)

B.For Gradding 2
(19mm Nominal Size 50-75mm thick)

$$25.00 \times 4.00 \times 0.05 = 5.000 \text{ m}^3$$

@ Rs. 7061.71 /m³ Rs. 35308.55

C/O Rs. 37569.55

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Mathabhanga, Coochbehar

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Mathabhanga Municipality
Mathabhanga :: Coochbehar

Items no	Description of item	Quantity	Rate	Amount
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B/F Rs. 37569.55

Item no.4 **Open-Graded Premix Surfacing using Bituminous**
P-257 **(Viscosity grade Paving Bitumen / Modified bitumen)**
It-5.11 **Binder and Mobile Hot Mix Plant (Light Duty)**

Providing, laying and rolling of Open - graded premix surfacing of 20 mm thickness composed of 13.2 mm (@ 0.018 m³ per m²) and 11.2 mm (@ 0.009 m³ per m²) size stone aggregates, including thoroughly cleaning of the surface, screening, cleaning and pre-heating stone chips and fully pre-coating the same either using viscosity grade paving bitumen or cut-back or emulsion, carrying the mixture by any suitable arrangements, laying the mixture uniformly over the surface, including line, grade and level to serve as wearing course on a previously prepared base, including mixing in Mobile Hot Mix Plant (Light Duty) and thoroughly rolling with a smooth wheeled roller 8-10 tonne capacity, finished to required level and grades including the cost and carriage of stone chips and matrix, heating the matrix, preheating the aggregates to required temperature and including the hire charges of Mobile Hot Mix Plant (Light Duty) and other machinery, pay of operators, cost of fuel and lubricants etc. complete to be followed by seal coat of either Type A or Type B as per Technical Specification Clause 508 for Rural Roads of MORD.

(With Pakur Variety Stone Chips)

$$25.00 \times 4.00 = 100.00 \text{ m}^2$$

@ Rs. 135.22 /m² Rs. 13522.00

Item no.5 Providing and laying Premixed Seal Coat (Type B) with
P-258 approved quality sand/grit @ 0.6 m³/ 100 m² and bitumen
It-5 13(B) binder on thoroughly cleaned black top surface coated with tack coat, including heating and mixing cleaned sand/grit (100 % passing through 2.36 mm sieve and retained on 180 micron sieve) uniformly with bitumen binder, laying and spreading the mix at an uniform rate using suitable means, brushing the surface, if necessary, to ensure uniformity, followed by rolling with power roller including the cost and carriage of binder and aggregates, cost of heating the binder and aggregates and all other incidental charges, cost of fuel and lubricants, including hire charges of machineries, tools & plants required for construction and quality control complete as per Clause 511 of Specifications for Road & Bridge Works of MoRT&H (5th Revision).

(With Pakur Variety Stone Chips)

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C/O Rs. 51091.55

Items no	Description of item	Quantity	Rate	Amount
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B/F Rs. 51091.55

2. By Manoual Means

(i) With Hot Bitumen Binder (@ 6.80kg/10m²)

$$25.00 \times 4.00 = 100.00 \text{ m}^2$$

@ Rs. 45.02 /m² Rs. 4502.00

Total= Rs. 55593.55

Add: GST 12% of (A) = Rs. 6671.23

Total= Rs. 62264.78

= Rs. 622.65

Total= Rs. 62887.43

Add: 3.0 % for contingency= Rs. 1886.62

Grand Total= Rs. 64774.05

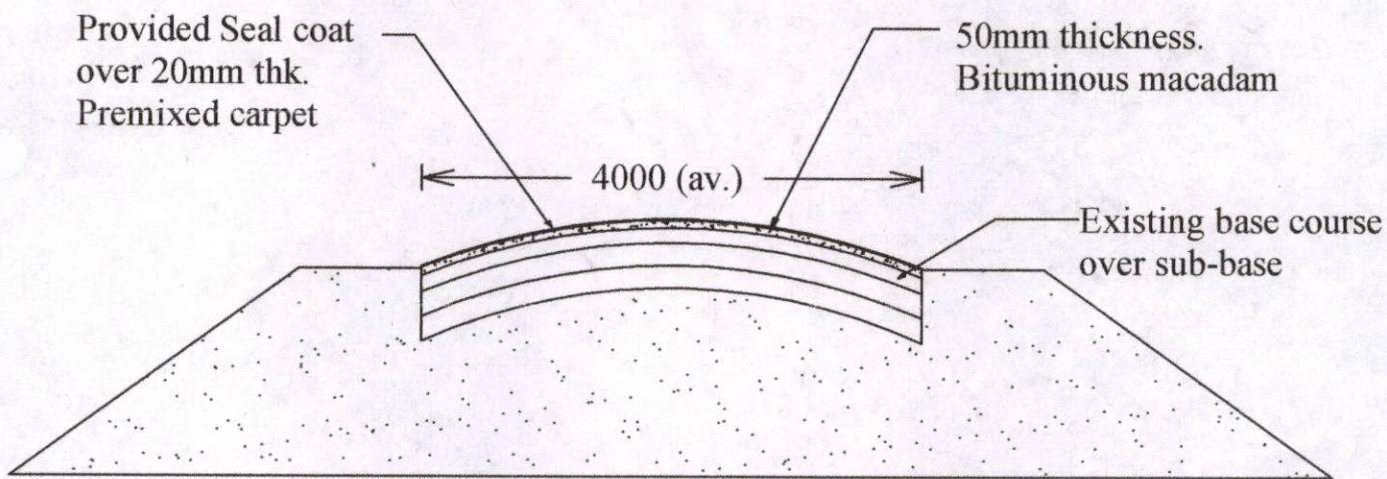
Hence, Cost per m² = Rs. 647.74

Rupees Six Hundred Forty Seven and Seventy Four Paise


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Proposed strenthening of Bituminous road of different slums and non slum area under the project of H.F.A. within Mathabhanga Municipality.



Cross section of Bituminous road
Scale - 1:25

[Signature]
25/7/19
Sub-Assistant Engineer
Mathabhanga Municipality
Mathabhanga :: Coochbehar

[Signature]
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Analysis of rate for bituminous work

PAKUR VARIETY STONE MATERIALS

These rates are taken from PWD R&B Works Schedule 30.08.2018 with uptodate Corrigenda (upto 5th. Corrigenda)

Source of materials: FALAKATA RAILWAY YARD

Work Site: MATHABHANGA TOWN

Lead : 35 km

I) Cost of Carriage per M³ :

Carriage upto 5 km @	Rs. 124.00	per Km =	Rs. 124.00
Carriage from 5km upto 10 km @	Rs. 10.90	per Km =	Rs. 54.50
Carriage from 10km upto 20 km @	Rs. 10.10	per Km =	Rs. 101.00
Carriage from 20km upto 35 km @	Rs. 9.50	per Km =	Rs. 142.50
Total Cost of Carriage.....>>>			Rs. 422.00

II) Final Cost of materials :

Sl No.	Description of Materials	Cost of materials at Yard per m ³	Contractors Profit @ 10%	Cost of carriage per m ³	Cost Loading, unloading & stacking per m ³	Total Cost per m ³
1	Stone Chips 22.40 mm	Rs. 1,706.00	Rs. 170.60	Rs. 422.00	Rs. 77.00	Rs. 2,375.60
2	Stone Chips 13.20 mm	Rs. 1,729.00	Rs. 172.90	Rs. 422.00	Rs. 77.00	Rs. 2,400.90
3	Stone Chips 11.20 mm	Rs. 1,590.00	Rs. 159.00	Rs. 422.00	Rs. 77.00	Rs. 2,248.00
4	Stone Chips 5.6 mm	Rs. 1,337.00	Rs. 133.70	Rs. 422.00	Rs. 77.00	Rs. 1,969.70
5	Stone Grit	Rs. 1,237.00	Rs. 123.70	Rs. 422.00	Rs. 77.00	Rs. 1,859.70
6	Stone Dust mixed wit Grit	Rs. 1,223.00	Rs. 122.30	Rs. 422.00	Rs. 77.00	Rs. 1,844.30

I) Cost of Carriage,loading and unloading of bitumen (packed) (80/100) from Haldia

Lead : 825Km

	Cost of carriage per MT
Carriage upto 5 km @	Rs. 82.00 per Km = Rs. 82.00
Carriage from 5km upto 10 km @	Rs. 7.30 per Km = Rs. 36.50
Carriage from 10km upto 20 km @	Rs. 6.70 per Km = Rs. 67.00
Carriage from 20km upto 50 km @	Rs. 6.30 per Km = Rs. 189.00
Carriage from 50km upto 100 km@	Rs. 5.60 per Km = Rs. 280.00
Carriage from 100 km upto 825 km@	Rs. 5.30 per Km = Rs. 3,842.50
Cost of loading unloading	Rs. 56.00 per MT= Rs. 56.00
Total Cost of Carriage per MT >>> Rs. 4,553.00	

II) Cost of Carriage,loading and unloading of catonic bitumen emalsion (M.S. packed) form DHULAGARH

Lead : 748 Km

	Cost of carriage per MT
Carriage upto 5 km @	Rs. 82.00 per Km = Rs. 82.00
Carriage from 5km upto 10 km @	Rs. 7.30 per Km = Rs. 36.50
Carriage from 10km upto 20 km @	Rs. 6.70 per Km = Rs. 67.00
Carriage from 20km upto 50 km @	Rs. 6.30 per Km = Rs. 189.00
Carriage from 50km upto 100 km@	Rs. 5.60 per Km = Rs. 280.00
Carriage from 100 km upto 748 km@	Rs. 5.30 per Km = Rs. 3,434.40
Cost of loading unloading	Rs. 56.00 per MT= Rs. 56.00
Total Cost of Carriage per MT >>> Rs. 4,144.90	

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Mathabhanga Municipality
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Analysis of rates of bitumen (packed) (VG- 10, 80/100) for Contractors supply- Per MT

1	Cost of Bitumen at Source (Haldia)	Rs.	31,120.00
2	Add 5% overhead Charges (Page No-220)	Rs.	1,556.00
3	Add 10% Contractors Profit (Page No-220)	Rs.	3,267.60
2	Cost of carriage & loading,unloading (Item No-1.03, P-228)	Rs.	4,553.00
5	Deduct cost of container (vide Note-3, Table I-2, P-219)	(-) Rs.	1,000.00
Total.....>>>		Rs.	39,496.60
Rate of material per Kg		Rs.	39.50

Analysis of rates of Catonic bitumen emulsion (packed)M.S. Type for Contractors supply- Per MT

1	Cost of Catonic Bitumen emulsion at Source (Dhulagarh)	Rs.	31,950.00
2	Add 5% overhead Charges (Page No-220)	Rs.	1,597.50
3	Add 10% Contractors Profit (Page No-220)	Rs.	3,354.75
2	Cost of carriage & loading,unloading (Item No-1.03, P-228)	Rs.	4,144.90
5	Deduct cost of container (vide Note-3, Table I-2, P-219)	(-) Rs.	1,000.00
Total.....>>>		Rs.	40,047.15
Rate of material per Kg		Rs.	40.05


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 Mathabhanga Municipality
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 Mathabhanga, Coochbehar

Analysis of rate for bituminous work

PAKUR VARIETY STONE MATERIALS

These rates are taken from PWD R&B Works Schedule 30.08.2018 with upto date Corrigenda (upto 5th Corrigenda)

B) Bituminous Macadam using Mobile Hot Mix Plant (Light Duty)..... Per M3

Providing and laying bituminous macadam with Mobile Hot Mix Plant (Light Duty) using approved crushed aggregates of specified grading as per Table 500.7 premixed with bituminous binder, transported to site laid over a previously prepared surface at specified laying temperature by means of approved and suitable arrangements to the required grade, level and alignment and rolled with suitable power roller for break down, inter-mediate and finished rolling as per specification to achieve the desired compaction including cost and carriage of stone materials and bitumen, hire charges of machinery and equipment, cost of fuel and lubricants and wages of operational staff, quality control complete as per Specifications for Road & Bridge Works of MoRT&H (5th Revision).

B. For Grading 2

(19 mm nominal size, 50-75 mm thick.) [P- 252, It- 5.04.B]

(With Pakur variety chips)


a) Cost of 22.4 mm stone chips @ 0.4241 m ³ per m ³	Rs. 2,375.60	/- per m ³	Rs. 1,007.49
b) Cost of 13.2 mm stone chips @ 0.2827 m ³ per m ³	Rs. 2,400.90	/- per m ³	Rs. 678.73
c) Cost of 11.2 mm stone chips @ 0.3534 m ³ per m ³	Rs. 2,248.00	/- per m ³	Rs. 794.44
d) Cost of 5.6 mm stone chips @ 0.2121 m ³ per m ³	Rs. 1,969.70	/- per m ³	Rs. 417.77
e) Cost of Stone Dust mixed with Grit @ 0.1414 m ³ per m ³	Rs. 1,844.30	/- per m ³	Rs. 260.78
f) Cost of Bitumen @ 75 Kg per m ³	Rs. 39.50	/- per Kg	Rs. 2,962.50
g) Labour rate per m ³	Rs. 940.00	/- per m ³	Rs. 940.00
			Total= Rs. 7,061.71

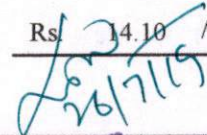
C) Open-Graded Premix Surfacing using Bituminous (Viscosity grade Paving Bitumen / Modified bitumen) Binder and Mobile Hot Mix Plant (Light Duty)..... Per M2

Providing, laying and rolling of Open - graded premix surfacing of 20 mm thickness composed of 13.2 mm (@ 0.018 m³ per m²) and 11.2 mm (@ 0.009 m³ per m²) size stone aggregates, including thoroughly cleaning of the surface, screening, cleaning and pre heating stone chips and fully pre-coating the same either using viscosity grade paving bitumen or cut-back or emulsion, carrying the mixture by any suitable arrangements, laying the mixture uniformly over the surface, including line, grade and level to serve as wearing course on a previously prepared base, including mixing in Mobile Hot Mix Plant (Light Duty) and thoroughly rolling with a smooth wheeled roller 8-10 tonne capacity, finished to required level and grades including the cost and carriage of stone chips and matrix, heating the matrix, preheating the aggregates to required temperature and including the hire charges of Mobile Hot Mix Plant (Light Duty) and other machinery, pay of operators, cost of fuel and lubricants etc. complete to be followed by seal coat of either Type A or Type B as per Technical Specification Clause 508 for Rural Roads of MORD. [P- 257, It- 5.11]

(With Pakur variety chips)

a) Cost of 13.2 mm Chips @ 0.018m ³ per m ²	Rs. 2,400.90	/- per m ³	Rs. 43.22
b) Cost of 11.2 mm chips @ 0.009 m ³ per m ²	Rs. 2,248.00	/- per m ³	Rs. 20.23
c) Cost of Bitumen @ 1.46 Kg per m ²	Rs. 39.50	/- per Kg	Rs. 57.67
d) Labour rate per m ²	Rs. 14.10	/- per m ²	Rs. 14.10
			Total= Rs. 135.22


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D) Premixed seal coat (Type- B)..... Per M2

Providing and laying Premixed Seal Coat (Type B) with approved quality sand/grit @ 0.6 m³/ 100 m² and bitumen binder on thoroughly cleaned black top surface coated with tack coat, including heating and mixing cleaned sand/grit (100 % passing through 2.36 mm sieve and retained on 180 micron sieve) uniformly with bitumen binder, laying and spreading the mix at an uniform rate using suitable means, brushing the surface, if necessary, to ensure uniformity, followed by rolling with power roller including the cost and carriage of binder and aggregates, cost of heating the binder and aggregates and all other incidental charges, cost of fuel and lubricants, including hire charges of machineries, tools & plants required for construction and quality control complete as per Clause 511 of Specifications for Road & Bridge Works of MoRT&H (5th Revision).

[P- 258, It- 5.13.B]

(ii) By Mecanical Means,with Hot Bittumin Binder(@6.80kg/10sqm.)

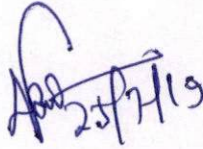
(With Pakur variety)

a) Cost of Bitumen @ 0.68 Kg per m ²	Rs. 39.50	/- per Kg	Rs. 26.86
b) Cost of Stone Grit @ 0.006 m ³ per m ²	Rs. 1,859.70	/- per m ³	Rs. 11.16
c) Labour rate per m ²	Rs. 7.00	/- per Kg	Rs. 7.00
	Total=		Rs. 45.02

Providing and applying tack coat with Cationic Bitumen Emulsion of approved grade conforming to IS: 8887-1978 on the prepared surface cleaned with Hydraulic broom, moistening the surface including cost and carriage of emulsion, hire charges of machinery and labour, cost of fuel and lubricants all complete as per Clause 503 of Specifications for Road & Bridge Works of MoRT&H (5th Revision).

(i) On Bituminous Surface [P- 251, It- 5.02.i]

a) Cost of Bitumenous Emulsion @ 0.25 Kg per m ²	Rs. 40.05	/- per Kg	Rs. 10.01
b) Labour rate per m ²	Rs. 1.30	/- per m ²	Rs. 1.30
	Total=		Rs. 11.31


Sub-Assistant Engineer
Mathabhanga Municipality
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Estimate for the Construction of Concrete Drain in Different Slums & Non Slums Areas under the Project of Housing For All within Mathabhanga Municipality.

Considering 100.00Mt. Length of Drain

Estimate is prepared as per P.W.D. Building (W.B) Schedule of rates w.e.f. 01.11.2017 with upto date corrigendum.(upto 5th corrigendum)

Items no	Description of item	Quantity	Rate	Amount
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Item no.1
P-1/2 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, bailing out water as required complete.
a)Depth of excavation not exceeding to 1.50m

$$\text{Drain } 100.00 \times 1.200 \times \frac{1}{2}(1.025 + 1.025) = 123.00 \text{ m}^3$$

$$\text{Total} = 123.00 \text{ m}^3$$

@ Rs. 11927.00 / % m³

Rs. 14670.21

Item no.2
P-1/3 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 trenches.

$$\frac{1}{5}\text{th of item no 1} = 24.6 \text{ m}^3$$

@ Rs. 7754.00 / % m³

Rs. 1907.48

Item no.3
P-47/3 Supplying and laying Polythene Sheet (150gm / sq.m.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches

$$\text{Drain } 100.00 \times \frac{1}{2}(1.20 + 1.20) = 120.00 \text{ m}^2$$

$$\text{Total} = 120.00 \text{ m}^2$$

@ Rs. 24.00 / m²

Rs. 2880.00

Item no.4
P-24/4(b) Cement concrete (mix 1:2:4) with 30 mm down graded shingles excluding shuttering if any in ground floor as per relevant IS codes.

a) River bazree :-

$$\text{Bed } 100.00 \times \frac{1}{2}(1.200 + 1.200) \times \frac{1}{2}(0.125 + 0.125) = 15.000 \text{ m}^3$$

$$\text{Wall } 100.00 \times \frac{1}{2}(0.250 + 0.400) \times \frac{1}{2}(0.900 + 0.900) = 29.250 \text{ m}^3$$

$$\text{Wall } 100.00 \times \frac{1}{2}(0.250 + 0.350) \times \frac{1}{2}(0.900 + 0.900) = 27.000 \text{ m}^3$$

$$\text{Total} = 71.250 \text{ m}^3$$

@ Rs. 4069.00 / m³

Rs. 289916.25

C/O Rs. 309373.94

Sub-Assistant Engineer
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Items no	Description of item	Quantity	Rate	Amount
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B/F Rs. 309373.94

Item no.5
P-26/10(ii) Ordinary cement concrete (1: 1¹/₂: 3) with graded stone chips (20 mm nominal size) excluding shuttering & reinforcement if any in ground floor as per relevant IS codes.
ii) River Bazree

$$\begin{aligned} \text{Slab } 100.00 \times \frac{1}{2} (1.100 + 1.100) \times \\ \frac{1}{2} (0.100 + 0.100) &= 11.000 \text{ m}^3 \\ \text{Total} &= 11.000 \text{ m}^3 \\ @ \text{Rs. } 4807.00 / \text{m}^3 & \end{aligned}$$

Rs. 52877.00

Item no.6
P-43/40 Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. 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 intersection complete as per drawing and direction.
a) for works in foundation and upto roof of ground floor/upto 4m.
ii) Tor steel/Mild steel
III. other manufacturers not specified.
i) Tor steel / mild steel

1. 25% of volume of Concrete

$$11.000 \times 7.85 \times 1.25\% = 1.07938 \text{ M.T.}$$

@ Rs. 70527.00 /M.T.

Rs. 76125.08

Item no.7
-42/36 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 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) with 25 mm to 30 mm thick shuttering without staging in foundation

Bed	2	x	100.00	x	1/2(0.125	+	0.125)=	25.00	m ²
Wall	4	x	100.00	x	1/2(0.900	+	0.900)=	360.00	m ²
Bottom of Slab	1	x	100.00	x	0.600			=	60.00	m ²
Side of Slab	2	x	100.00	x	0.100			=	20.00	m ²
	2	x	1.100	x	0.100			=	0.22	m ²
									Total	= 465.22 m²

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[Signature]
Sub-Assistant Engineer
Mathabhanga Municipality
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@ Rs. 205.00 / m²

Rs. 95370.10

C/O Rs. 533746.12

Items no	Description of item	Quantity	Rate	Amount
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B/F Rs. 533746.12

Item no.8 Plaster (to wall, floor, ceiling etc.) with
P-189/1 composite mortar of sand, lime and cement including round off or chamfering corners as directed and raking out joints and roughening of concrete surface including throating, nosing and drip course where necessary (Ground floor)
ii) with 1:4 cement mortar
c) 10 mm thick plaster

$$1 \times 100.00 \times \frac{1}{2} (2.150 + 2.150) = 215.00 \text{ m}^2$$

$$\text{Total} = 215.00 \text{ m}^2$$

@ Rs. 126.00 / m²

Rs. 27090.00

Item no.9 Neat cement punning about 1.5mm thick in
-192/15 wall, dado, window sill, floor etc.
NOTE: Cement 0.152 cu.m per 100 sq.m.

$$\text{Qty. vide from item no.8} = 215.00 \text{ m}^2$$

@ Rs. 34.00 / m²

Rs. 7310.00

Total(A)= Rs. 568146.12

Add: 12% GST of (A) Total= Rs. 68177.53

Total(B)= Rs. 636323.65

Add: Labour Cess 1% of (B) Total= Rs. 6363.24


Total(C)= Rs. 642686.89

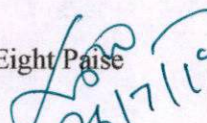
Add: 3 % for contingency of (C) Rs. 19280.61

Grand Total= Rs. 661967.50

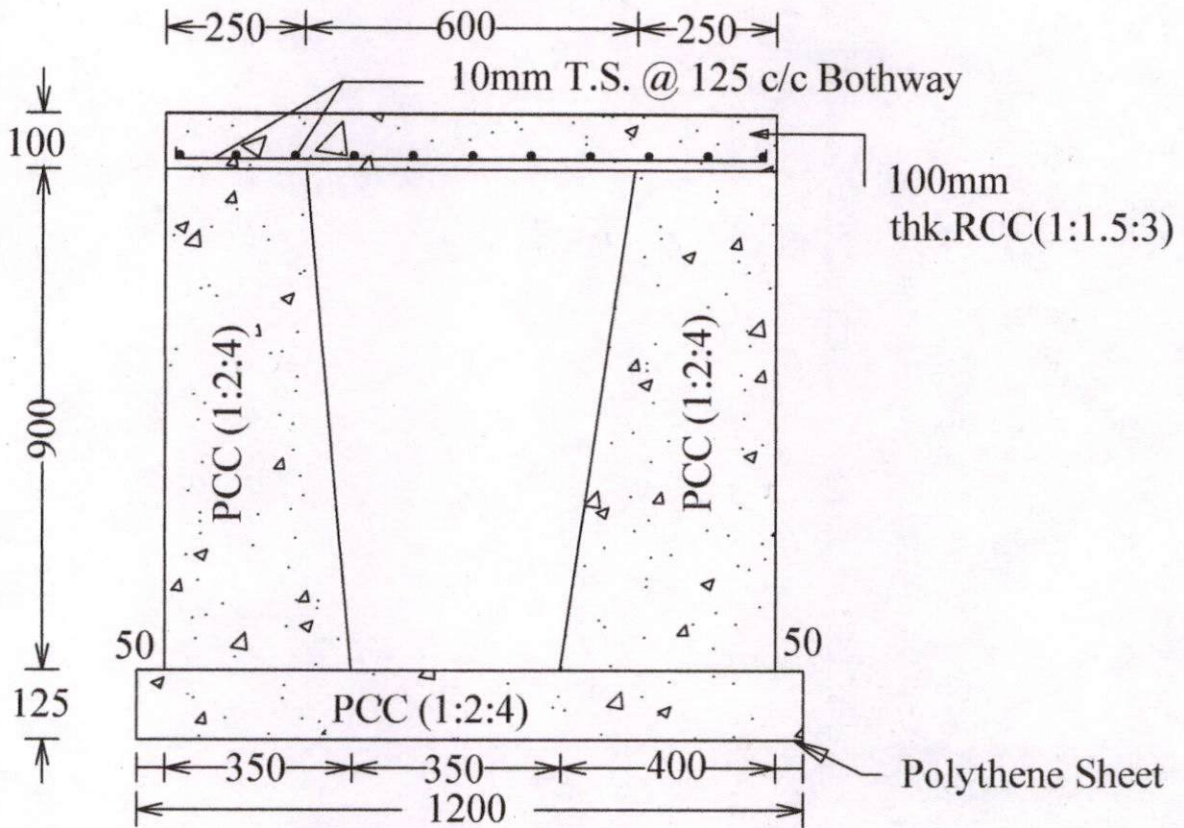
Hence, cost per mt.=Rs. 6619.68

Rupees Six Thousand Six Hundred Nineteen and Sixty Eight Paise


25/7/19
Sub-Assistant Engineer
Mathabhanga Municipality
Mathabhanga :: Coochbehar


26/7/19
Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

Proposed Concrete Drain for Slums and Non-Slum area under the Project of H.F.A. within Mathabhanga Municipality



Cross Section of Drain
Scale- 1:25

[Signature]
25/7/19
Sub-Assistant Engineer
Mathabhanga Municipality
Mathabhanga :: Coochbehar

[Signature]
26/7/19
Chairman
Mathabhanga Municipality
Mathabhanga, Coochbehar

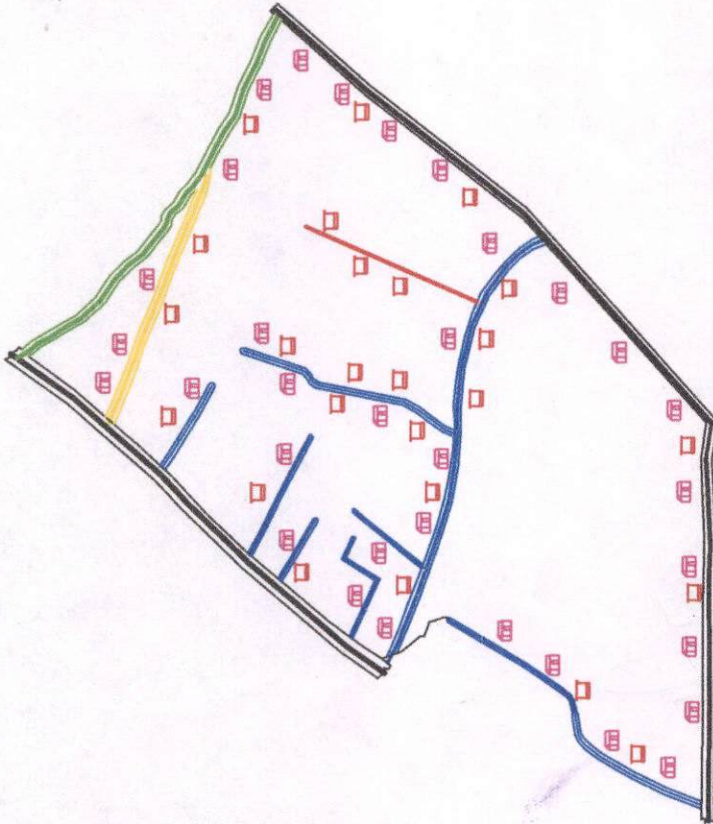
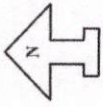
MATHABHANGA MUNICIPALITY

WARD NO - 01

HARIJAN PALLY & MANMOHAN PARA

SLUM NO:- 01

AREA:- 0.14 SQ.KM.



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**Chairman
Mathabhanga Municipality
Mathabhanga, Coocchbehar**

Handwritten signature in blue ink.
**Sub-Assistant Engineer
Mathabhanga Municipality
Mathabhanga :: Coocchbehar**

<u>PROPOSED LAND USE</u>			
AREA OF SLUM : 0.14 SQ.KM.			
POPULATION : 572			
LEGEND			
ITEMS	EXTG	PROPOSED	QTY
	SYMBOL	SYMBOL	
DWELLINGHOUSE			9 Nos
CONCRETE DRAIN			91.00 m
CONCRETE ROAD			
BLACK TOPPED ROAD			400.00 m ²
KANCHA ROAD			