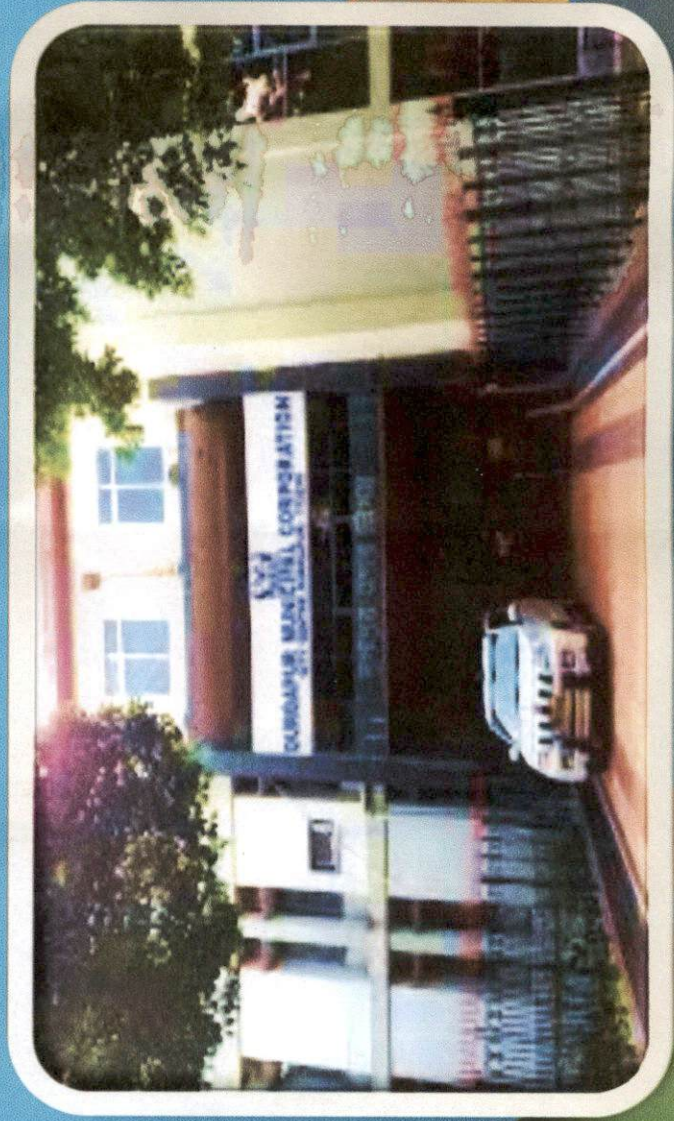




**DETAILED PROJECT REPORT OF 1867 NOS DUS OF HOUSING FOR ALL,  
FY 2019-2020, UNDER DURGAPUR MUNICIPAL CORPORATION**



# DURGAPUR MUNICIPAL CORPORATION

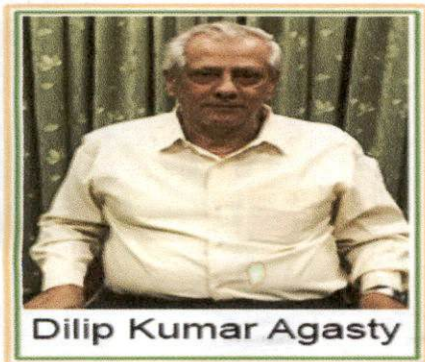


HOUSING FOR ALL-

FY-2019-20

## Introductory Note by Hon'ble Mayor:

### From Mayor's Desk



In 1962 on an auspicious moment DNAA was started its maiden journey in rented premises at Sadhudanga, Durgapur – 1. Gradually almost eighteen years have gone to renounced of its previous name Durgapur Notified Area Authority (DNAA). Though, today Durgapur Municipal Corporation consists of 43 Wards and 5,66, 937 populations (according to last census) with 154 Sq.Km. area. A multi-functional and eventful activity has been started Shopping Mall & Complex like Junction Mall, Suhatta, Kanu Sidhu Indoor Stadium, Bhagat Singh Stadium etc. In this moment from the core of my heart, I express my gratitude to the citizens of Durgapur for their cordial and active co-operation

Very recently Durgapur has been declared as one of the Green Cities in West Bengal, keeping that in mind Durgapur Municipal Corporation has taken the initiative to prepare a "City Development Plan" as a perspective for the future development of the City. This CDP highlights a vision of an urban area that is ecologically friendly, technologically integrated, thoroughly planned with confidence on the use of information technology to improve efficiency. We strongly feel that a sound economic base can only help us in achieving all our desired goals. We, therefore, want computerization of various functions, introduction of GIS, better financial management, introduction accrual system of accounting, better transparency in plans and programs and more active citizens, interface and interaction. At the same time, we will try to create an enabling environment for revival of sick industries.

Most important aspect of this CDP is to provide "Citizen interface" i.e. making the Corporation activities Digital or implementing the e-Governance solution in Durgapur Municipal Corporation. On this occasion of launching THE DYNAMIC WEBSITE of Durgapur Municipal Corporation along with On-line Trade License and Social Beneficiary Scheme we assure you that very soon other citizen centric activities like Building Plan, Property Tax, Water Tax etc. will be made on-line. With this real time activities and seamless transition from manual to computerized processing the complete scenario will be transparent, faster and much easier to use.

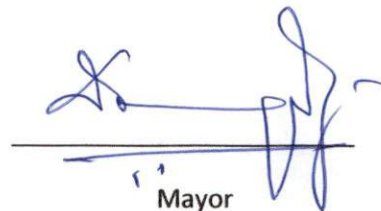
The preparation of CDP is taking up plans and program to urge upon for overall improvement of the Corporation area with infrastructure projects relating to water supply and sanitation, sewerage all over the City, solid waste management, street development, urban transport and redevelopment of old city areas with a view to upgrading infrastructure therein, shifting industrial and commercial establishments to conforming areas, etc. special emphasis on poverty mitigation programs for the poor and poverty stricken marginalized group. In the corporation, we, therefore, want to take up various development programs for the urban poor like self-employment, vocational training, technical training etc. We also want to give most

priority of projects through stakeholders' consultation, encouraging local unemployed youths for taking part in different development programs so that we can reach the fruits of development at the grass root level.

Anchoring the Jawaharlal Nehru National Urban Renewal Mission, we focus the development of economic and social infrastructure of urban poor's, improvement of physical and environmental aspects, strengthening municipal governance and their financial budgeting systems and procedures. We also have focused on creation of structure for bringing in good governance including accountability, transparency. Planned land use distribution is our prime interest. Apart from the CDP, Slum Free City Plan of Action to make India slum free under RAY has been started in Durgapur especially for the urban poor.

Also, our request is not to waste drinking water and appeal to the citizens to take active part for plantation. Because any how we want to save the environment. We hope that through various interactions and so many interface program with elected representatives, social activists, citizens and various C.D.S. groups, newer ideas will come up and a consensus can be arrived for preparing a meaningful City Development Plan for the Corporation.

I, on behalf of the Citizen of Durgapur Industrial Belt, the dream city of Dr. Bidhan Chandra Roy, the then Chief Minister, which is gradually developed to be declared as Smart City in future by the Govt. of India. In view of the aforesaid status of the City, I like to propose that for amusement and mental development of the children and to create a beautiful spot of Tourism and other amenities like ZOO, SWIMMING POOL, CHILDREN PARK etc. at a pollution free zone at Durgapur so that the children of this city will be encouraged on seeing the proposed Zoo & Swimming Pool etc.



Mayor  
Durgapur Municipal Corporation

**Mayor**  
**Durgapur Municipal Corporation**

## Abbreviations

A&OE	Administrative and Other Expenses	MoA	Memorandum of Agreement
AHP	Affordable Housing in Partnership	MoHUPA	Ministry of Housing and Urban Poverty Alleviation
AIP	Annual Implementation Plan	MoU	Memorandum of Understanding
CDP	City Development Plan	IIT	Indian Institute of Technology
CLS	Credit linked subsidy	NA	Non Agricultural (NA)
CNA	Central Nodal Agencies	NBC	National Building Code
CSMC	Central Sanctioning and Monitoring Committee	NHB	National Housing Bank
DIPP	Department of Industrial Policy and Promotion	NOC NPV	No Objection Certificate Net Present Value
DPR	Detailed Project Report	PLI	Primary Lending Institution
EMI	Equated Monthly Instalment	SFCPoA	Slum Free City Plan of Action
EWS	Economically Weaker Section	SLAC	State Level Appraisal Committee
FAR	Floor Area Ratio	SLNA	State level Nodal Agencies
FSI	Floor Space Index	SLSMC	State Level Sanctioning and Monitoring Committee
HFA	Housing for All		
HFAPoA	Housing for All Plan of Action	TDR	Transfer of Development Rights
HUDCO	Housing and Urban Development Corporation	TPQMA	Third Party Quality Monitoring Agency
IEC	Information Education & Communication	ULB	Urban Local Body
IFD	Integrated Finance Division	UT	Union Territory

## Working Definitions

Affordable Housing Project:	Housing projects where 35% of the houses are constructed for EWS category
Beneficiary	A beneficiary family will comprise husband, wife and unmarried children.  The beneficiary family should not own a pucca house (an all weather dwelling unit) either in his/her name or in the name of any member of his/her family in any part of India.
Carpet Area	Area enclosed within the walls, actual area to lay the carpet. This area does not include the thickness of the inner walls
Central Nodal Agencies	Nodal Agencies identified by Ministry for the purposes of implementation of Credit linked subsidy component of the mission
Economically Weaker Section (EWS):	EWS households are defined as households having an annual income up to Rs. 3,00,000 (Rupees Three Lakhs). States/UTs shall have the flexibility to redefine the annual income criteria as per local conditions in consultation with the Centre.
EWS House	An all-weather single unit or a unit in a multi-storeyed super structure having carpet area of upto 30 sq. m. with adequate basic civic services and infrastructure services like toilet, water, electricity etc. States can determine the area of EWS as per their local needs with information to Ministry.
"Floor Area Ratio" (FAR)/FSI	The quotient obtained by dividing the total covered area (plinth area) on all the floors by the area of the plot:  $FAR = \frac{\text{Total covered area on all the floors} \times 100}{\text{Plot area}}$ <p>If States/Cities have some variations in this definition, State/City definitions will be accepted under the mission</p>
Implementing Agencies	Implementing agencies are the agencies such as Urban Local Bodies, Development Authorities, Housing Boards etc. which are selected by State Government/SLSMC for implementing Housing for All Mission.

Low Income Group (LIG):	LIG households are defined as households having an annual income between Rs.3,00,001 (Rupees Three Lakhs One) up to Rs.6,00,000 (Rupees Six Lakhs). States/UTs shall have the flexibility to redefine the annual income criteria as per local conditions in consultation with the Centre.
Primary Lending Institutions (PLI)	Scheduled Commercial Banks, Housing Finance Companies, Regional Rural Banks (RRBs), State Cooperative Banks, Urban Cooperative Banks or any other institutions as may be identified by the Ministry
Slum	A compact area of at least 300 population or about 60-70 households of poorly built congested tenements, in unhygienic environment usually with inadequate infrastructure and lacking in proper sanitary and drinking water facilities.
State Land Nodal Agencies (SLNAs)	Nodal Agency designated by the State Governments for implementing the Mission
Transfer of Development Rights (TDR)	TDR means making available certain amount of additional built up area in lieu of the area relinquished or surrendered by the owner of the land, so that he can use extra built up area himself in some other land.

## **Description of Work**

**Housing For All (PMAY) ,FY-2019-20**

**DURGAPUR MUNICIPAL CORPORAION**

**TOTAL WARD NO-43**

**BOROUGH-05 NOS**

**Housing For All,FY-2015-16 –Approved no of Beneficiary, 233 nos.**

**Housing For All,FY-2018-19 –Approved no of beneficiary, 1500 nos.**

**Housing For All,FY-2019-20 –Approved no of beneficiary, 3073 nos.**

**Engineer-in-Charge : Sushmita Paul ,**

**Designation : Sub-Assistant Engineer, DMC**

**Contact No : 9614613272**

**Nodal Officer :Mr Mohanlal Majee ,**

**Designation : Assistant Engineer, DMC**

**Contact No : 9434312342**



## **City Profile and Overview:**

**Durgapur** is a Tier-II city in Paschim Bardhaman district, in the state of West Bengal, India. Durgapur is the 3rd largest urban agglomeration after Kolkata and Asansol in West Bengal and happens to be the 2nd planned city in India after Chandigarh and has the only operational dry (inland) port in the Eastern part of India. Durgapur was planned by two American Architects- Joseph Allen Stein and Benjamin Polk in 1955. It is the only city in Eastern India to have an operational dry dock.

Durgapur is the third largest city in West Bengal in terms of both area (154.20 sq. km / 59.54 sq. miles) and population (5,66,937) (2011 census & excluding the urban agglomeration). It is also one of the six Municipal Corporations in West Bengal and the headquarter of the Durgapur subdivision consisting of the Durgapur Municipal Corporation and five community development blocs: Durgapur-Faridpur, Galsi-I, Kanksa, Andal and Pandabeswar. The five blocks contain 36 gram panchayats and 30 census towns. Distances from Kolkata: By Road 170 km via NH-2, by Rail 158 km and by Flight 163 km. Durgapur Urban Agglomeration includes: Durgapur (Municipal Corp.), Bamunara (Census Town) and Arrah (Census Town) and ranks 4th (in terms of population) among other urban agglomerations in West Bengal. Durgapur is also one of the three Y (for the purpose of HRA [House Rent Allowance] calculation) class cities in West Bengal.

It was a dream child of Dr. Bidhan Chandra Roy, the second chief minister of the state. The industrial township was designed by Joseph Allen Stein and Benjamin Polk.[1] and is home to one of the largest industrial units in the state, Durgapur Steel Plant, one of the integrated steel plants of Steel Authority of India Limited. Alloy Steels Plant of S.A.I.L. and Central Mechanical Engineering Research Institute (C.M.E.R.I.), a C.S.I.R. laboratory, are also here. Allied ICD Services Limited, the custodian of the only operational inland port (ICD Durgapur) in Eastern India, is situated in Durgapur as well. There are four power plants Durgapur Projects Limited (D.P.L.), Durgapur Thermal Power Station, Damodar Valley Corporation & N.S.P.C.L., and some chemical and engineering industries at Durgapur. Some metallurgical units have come up in recent years. The National Institute of Technology, Durgapur (earlier known as Durgapur Regional Engineering College) is one of the most prominent seats of the Indian Central Government's Engineering and Technological Education.

### **YEAR OF ESTABLISHMENT**

Durgapur Municipal Corporation is one of the oldest municipalities in the district of Paschim Bardhaman. It was established in the year 1996.

## LINKAGES OF RAIL, ROAD, PORT AND AIR

Durgapur is the preferred gateway to the districts of [Bankura](#), [Birbhum](#) ( [Bolpur](#), [rampurhat](#), [Suri](#) ), and [Purulia](#), which are not that well connected. [NH 19](#) (old numbering: NH 2) passes through the city jurisdiction and [SH9](#) originates from Muchipara in the city. [NH 14](#) (old numbering NH 60) passes through the north-western suburb of [Pandabeswar](#) and finally passes through [Raniganj](#) and heads away towards [Orissa](#). It happens to be one of the very few cities that have an [Asian Highway \(AH\)](#) passing directly through the city jurisdiction.

Durgapur has bus terminus at Benachiti-I, Benachiti-II (commonly referred to as Prantika), City Center, and Station More. One bus terminus is coming up at Nadiha, but only for inter-city commuting. The nearest domestic airport is [Kazi Nazrul Islam Airport](#). The airport is roughly 15 kilometers from Durgapur's City Centre. It is India's first private-sector Greenfield airport. It is located in a place called Andal.

## INDUSTRIALIZATION

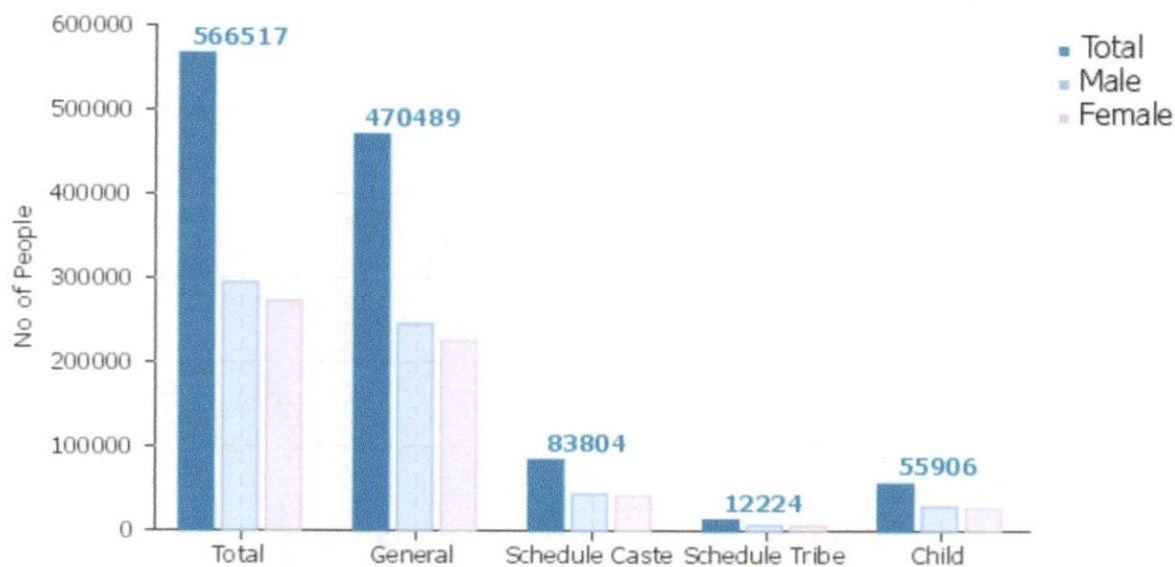
Durgapur is by far the most industrialized city in eastern India and the [second planned city in India](#). It started with the first prime minister of independent India, [Jawaharlal Nehru](#). His dream of transforming the backward agricultural country into an industrially advanced nation was picked up in West Bengal by Dr. B.C. Roy. At the earlier stages for the selection of a proper site for a new industrial township, Before independence, only one small refractory plant of the Martin Burn group was located at Durgapur: the abandoned chimney is visible near the station. [Damodar Valley Corporation](#) constructed Durgapur Barrage in 1955 and shortly followed with the [Durgapur Thermal Power Station](#).

There was a massive follow up – Durgapur Steel Plant (commissioned 1960), Alloy Steels Plant (commissioned 1965), Durgapur Projects Ltd. (established 1961), Mining and Allied Machinery Corporation, ACC-Vickers Babcock (later ACC-Babcock and Alstom Power Boilers Ltd, now GE Power India Ltd.), Hindustan Fertiliser Corporation, Philips Carbon Black Ltd., Sankey Wheels (a unit of GKW), Bharat Ophthalmic Glass Ltd, Durgapur Cement Ltd. (now Birla Cement) (established 1975), Graphite India Ltd. (established 1967), Durgapur Chemicals Ltd. (DCL) was incorporated on 31 July 1963, Ispat Forgings and many others, large and small.

## ***DEMOGRAPHIC GROWTH AND POPULATION PROJECTION***

The city is home to about 5.7 lakh people, among them about 2.9 lakh (52%) are male and about 2.7 lakh (48%) are female. 83% of the whole population are from general caste, 15% are from schedule caste and 2% are schedule tribes. Child (aged under 6 years) population of Durgapur municipal corporation is 10%, among them 52% are boys and 48% are girls. There are about 1.3 lakh households in the city and an average 4 persons live in every family

## Caste wise Male female population 2011 - Durgapur



### Caste wise male female population 2011 - Durgapur

	Total	General	Schedule Caste	Schedule Tribe	Child
<b>Total</b>	566,517	470,489	83,804	12,224	55,906
<b>Male</b>	294,255	245,053	42,965	6,237	28,878
<b>Female</b>	272,262	225,436	40,839	5,987	27,028

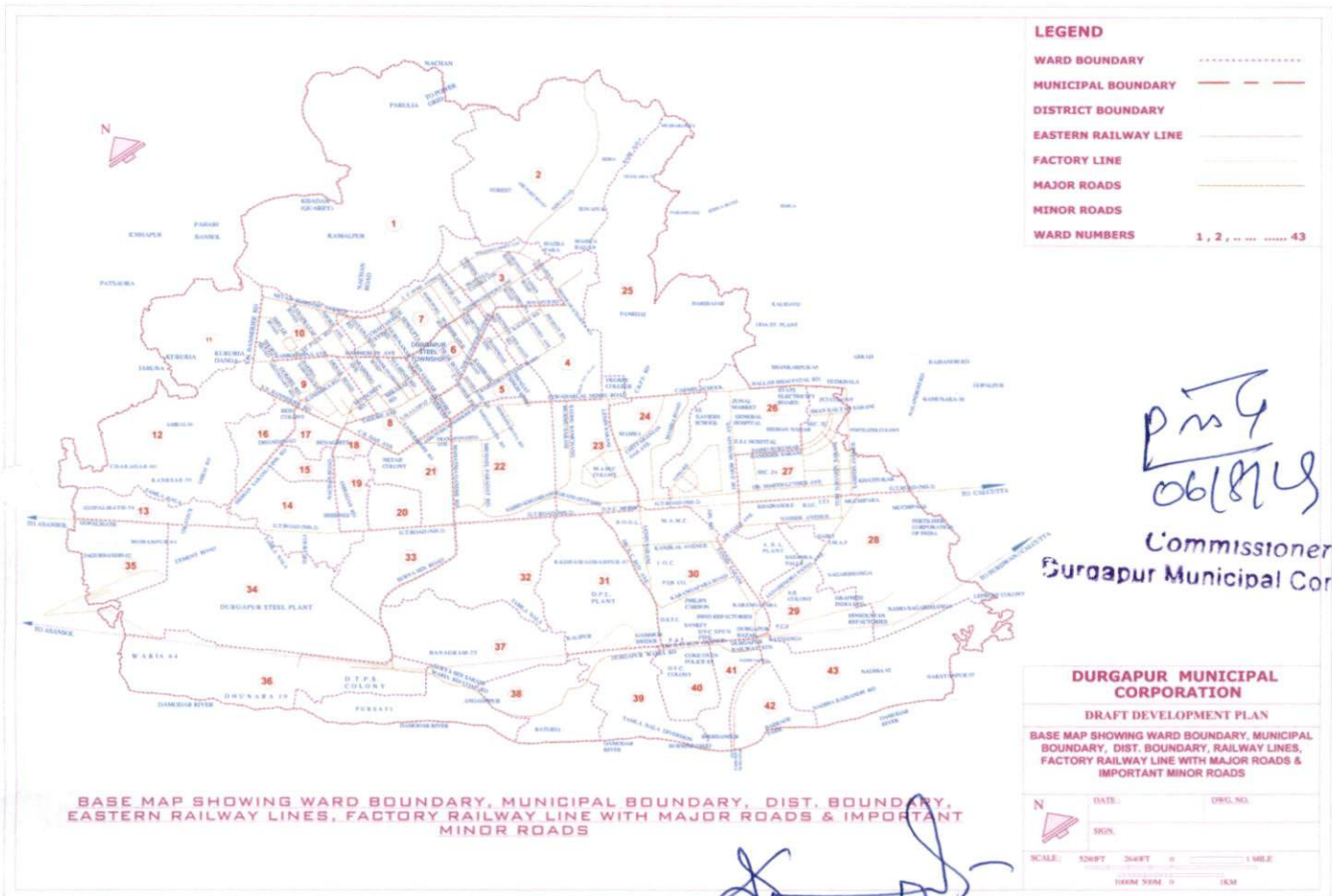
### INTERESTED PLACES

- Durgapur Barrage.
- Bhabani Pathak Tilla.
- Kumarmangalam Park.
- Garh Jungle.
- Troika Park.
- Junction Mall.

*P. M. G.*  
*06/08/11*

**Commissioner**  
Durgapur Municipal Corporation

## BASE MAP OF DURGAPUR



*Pm 9*  
*06/01/14*  
 Commissioner  
 Durgapur Municipal Corporation

*[Signature]*  
 Mayor  
 Durgapur Municipal Corporation

## CLIMATE

Durgapur experiences a somewhat transitional climate between the tropical wet and dry climate of Kolkata and the more humid subtropical climate further north. Summers are extremely hot and dry, lasting from March to the middle of June, with average daily temperatures near 32 °C. They are followed by the monsoon season with heavy precipitation and somewhat lower temperatures. Durgapur receives most of its annual rainfall of around 52 inches during this season. The monsoon is followed by a mild, dry winter from November to January. Temperatures are quite moderate, with average daily temperatures near 20 °C. There is a short autumn at the end of October and a short spring in February, both of which have relatively moderate temperatures of around 25 °C.

## **DPR MAIN REPORT**

### **Section 1- Introduction**

“Housing for All” Mission for urban area will be implemented during 2015-2022 and Mission will provide central assistance to implementing agencies through States and Uts for providing houses to all eligible families/beneficiaries by 2022. Mission will be implemented as Centrally Sponsored Scheme (CSS) except for the component 1.2 of credit linked subsidy which will be implemented as a Central Sector Scheme. A beneficiary family will comprise husband, wife, unmarried sons and/or unmarried daughters. The beneficiary family should not own a pucca house either in his/her name or in the name of any member of his/her family in any part of India to be eligible to receive central assistance under the mission. States/Uts, at their discretion, may decide a cut-off date on which beneficiaries need to be resident that urban area for being eligible to take benefits under the scheme.

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

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

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

On the basis of HFAPoA, States/Cities subsequently prepare the Annual Implementation Plans (AIPs) dividing the task up to 2022 in view of the availability of resources and priority. For larger cities, HFAPoA

and AIPs is prepared at sub-city (ward/zone etc.) level with the approval of concerned State/UT Government. The result of demand survey, draft HFAPoA and draft AIP is discussed with the local representatives including MLAs and MPs of that area so that their views are adequately factored in while finalizing the plans and beneficiary list.

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

The preparation of HFAPoA broadly involve Slum Development/Rehabilitation Plans based on.

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

1. Base maps to an appropriate scale would be a pre-requisite for the preparation of Slum Development Plan/Slum-free City Plan. States/UTs may need to proceed in the following steps for the preparation of Slum-free City Plans.

2. Securing CARTOSAT II/latest satellite images from NRSC/ISRO and preparation of base maps for the whole city and its fringes using the images;

3. Identification and inventory of all slum clusters of all descriptions in the urban agglomeration with the help of satellite image and other available data;

4. Inventory of all possible vacant lands in each zone of the urban agglomeration that could be used for slum development/ rehabilitation development purposes;

5. Development of Slum Map of every slum within the city and its fringes using GIS with CARTOSAT II images, ground level spatial data collected through total station survey, collating spatial information with respect to plot boundaries, network of basic infrastructure like roads, sewerage, storm drainage and water lines, etc and superimposing this on the satellite image and importing them into GIS platform as the first step towards the preparation of Slum Development Plans and Slum Free City Plan.

6. This may be undertaken with the help of technical partners of NRSC/ ISRO/other technical institutions.

7. Identification and engagement of Lead NGO/CBO to guide and anchor community mobilization for the purpose of slum survey, (May be more than one NGO/CBO in different slum zones) of the city. These Lead NGOs/CBOs should also be associated in slum survey operations and dialogues for preparation of slum level development plans;
8. Conduct of Slum Survey based on the detailed formats (with or without changes) prepared by the Ministry of Housing & Urban Poverty Alleviation with the help of National Buildings Organization (NBO) - after due training of trainers, training of survey personnel /canvassers and canvassing. It would be helpful for community mobilization to pick as many canvassers from the sourced slum or nearby slum pockets;
9. Collection of bio-metric identification data of slum dwellers based on the above survey (subject to guidelines issued by Unique Identity Authority of India (UIDAI));
10. Entry of data from Slum Surveys in the web-enabled MIS application (to be provided by Ministry of HUPA), compilation and collation of data, preparation of Slum-wise, City and State Slum Survey Database and Baseline Reports. The MIS will assist in developing a robust Slum and Slum Households Information System. (Guidelines and software for development of the MIS will be issued by the Ministry of HUPA);
11. Integration of Slum MIS with GIS Maps to enable the preparation of GIS-enabled Slum Information System that is to be used for the preparation of meaningful Slum Development Plans and Slum-free City Plan using a city-wide/zone-based approach.(Guidelines and software for development of GIS platform and its integration with the MIS will be issued by the Ministry of HUPA).

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

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

- Bringing existing slums within the formal system and enabling them to avail of the same level of basic amenities as the rest of the town.
- Redressing the failures of the formal system that lie behind the creation of slums.
  
- Tackling the shortages of urban land and housing that keep shelter out of reach of the urban poor and force them to resort to extra-legal solutions in a bid to retain their sources of livelihood and employment.
- Enactment of a set of reforms at the state and city level related to inclusive planning, regulation and financing, which would ensure that adequate fresh housing stock and services get created on an ongoing basis to address both current and future needs of cities.
  
- An integrated approach covering shelter, services and livelihoods for poor slum communities.

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

### **Eligible Components of the PMAY:**

#### **Allotment of Houses**

1. Allotment of dwelling units will be in the name of the female member of the . Alternatively, it can be allotted in the name of husband and wife jointly. Ownership of land required for every Beneficiary.
2. A EWS beneficiary family will comprise husband, wife and unmarried children. The beneficiary family should not own a pucca house (an all weather dwelling unit) either in his/her name or in the name of any member of his/her family in any part of India to be eligible to receive central assistance under the mission.
3. EWS households are defined as households having an annual income up to Rs.3,00,000 (Rupees Three Lakhs). States/UTs shall have the flexibility to redefine the annual income criteria as per local conditions in consultation with the Centre.



## Following infrastructure will be considered for support under PMAY:

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

## Need for Projects

This development project models will give benefits in the city. One of the key objectives of developing the Projects is to incentivize innovation and encourage new approaches and solutions that can demonstrably improve the quality and quantity of shelter and services for the poor.

Such innovation could encompass:

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

## Aims and Objectives

### Vision

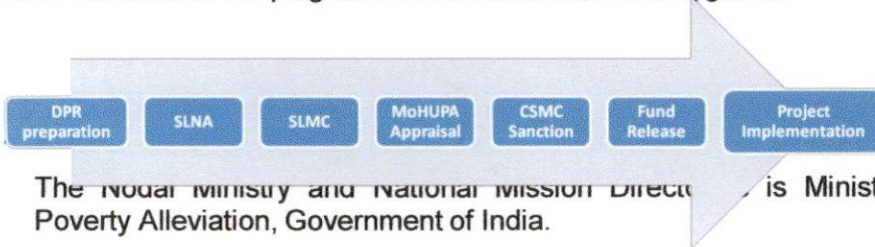
The mission seeks to address the housing requirement of urban poor including slum dwellers through following programme verticals:

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

## Objectives

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

- Integrated development of all existing slums, notified or non-notified, i.e., development of infrastructure and housing in the slums/rehabilitation colonies for the slum dwellers/urban poor, including rental housing.
- Development/improvement/maintenance of basic services to the urban poor, including water supply, sewerage, drainage, solid waste management, approach and internal road, street lighting.
- The Creation of affordable housing stock, including rental housing with the provision of civic infrastructure and services, on ownership.
- Encouraging Public Private Partnership by having pay and use toilets and educate the slum dwellers for keeping the environment clean and hygienic.



The nodal ministry and National Mission Director is Ministry of Housing & Urban Poverty Alleviation, Government of India.

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

## Funding Pattern of PMAY

Funding pattern for PMAY(Housing for all)

- Central share 1.5 LAKHS of total cost of dwelling unit
- Beneficiary share 0.35 LAKHS of total cost of dwelling unit
- State share rest of total cost of dwelling unit
- State + ULB bear the cost of infrastructure

- State share for infrastructure to be minimum 5%
- ULB share for infrastructure to be minimum 5%
- Cost of infrastructure 10 % of sum total cost of dwelling unit

#### Approvals & Release of Funds :

- Releases and approvals to be on the basis of DPRs which need to be submitted with approval of State Level Sanctioning and Monitoring Committee
- Innovative projects to be considered for sanction even in the preparatory stage.
- Central Funds to be released in three instalments to the State Governments/SLNA central assistance under different components will be released to the state / UTs after the approval of CSMC and with concurrence of the integrated Financial Division of the Ministry. Central share would be released in three instalment of 40%,40% and 20% each.

Mission with all its component has become effective from the date 17.06.2015 and will be implemented upto 31.03.2022. All 4041 statutory towns as per Census 2011 with focus on 500 Class I cities would be covered in three pha**2015 TO 2022** sees as follows:

- Phase I (April 2015 – March 2017) to cover 100 Cities selected from States/UTs as • per their willingness.
- Phase II (April 2017 – March 2019) to cover additional 200 Cities•
- Phase III (April 2019 – March 2022) to cover all other remaining Cities•

Ministry, however, will have flexibility regarding inclusion of additional cities in earlier phases in case there is a resource backed demand from States/UTs.

The HFAPoA for Memari has been prepared in accordance with the guidelines issued by Ministry of Housing and Urban Poverty Alleviation, Government of India. Overall approach adopted throughout the preparation of this HFAPoA has been based on four key principles,

- well rounded stakeholder consultations,
- continuous community involvement,
- providing innovative solutions and
- coordination & validation.

Methodology adopted for preparation of HFAPoA is demonstrated in the below:

- 1) Taking Initiative for Demand Assessment Survey.
- 2) Conducting Orientation Programme with elected representative and officers of ULB.
- 3) Conducting Orientation programme with Supervisors and Enumerators.
- 4) Conducting Demand survey and complete the work.
- 5) Conducting Data Entry of the survey form and complete the work
- 6) Analysis of the data.
- 7) Filling up the requisite formats.
- 8) Planning of project with elected representatives and officers of ULB.
- 9) Preparing investment requirement and Financial plan
- 10) Finalization of HFAPoA.

## Slum / Non Slum Area

	Name	WARD_NO	AREA(ACRE)	Sq Km	Sq. Mt.
1	RaghunathpurJhupri	1	94.026	0.380512	380511.88
2	Kamalaitala	1	29.724	0.120291	120290.85
3	MadhuPalli	1	44.373	0.179571	179571.35
4	Kamalpur(East)Mahanthobugan	1	16.785	0.067928	67927.66
5	DhobighatJhupri	1	106.839	0.432368	432368.00
6	Bijupara Jhupri/Badyakar Para	1	11.962	0.048408	48407.69
7	Kamalpur (East) Ghosh Para & Char Mail	1	51.065	0.206653	206653.35
8	Bijupara Jhupri	1	37.439	0.151512	151512.08
9	Kamalpur (Wast)	1	49.621	0.20081	200809.56
10	Kamalpur	1	25.405	0.102812	102812.24
11	Khatgaria	1	91.975	0.372212	372212.09
12	Dasirbandh	1	6.501	0.026311	26310.90
13	Parulia East (PGCI Bouri Para)	1	6.498	0.026298	26297.91
14	Kamalpur Vasing plat	1	13.813	0.055899	55898.69
15	Hejra & Harchandi	1	19.992	0.080904	80904.44
16	Gangapara	1	4.880	0.019749	19749.39
17	Parulia Wast (Village)	1	46.729	0.189106	189105.76
18	Parulia Village (Lalu Pada)	1	4.138	0.016746	16746.47
19	Hanuman Chatal (Parulia West)	1	4.421	0.017892	17892.41
20	Vansi Vera (Parulia West)	1	2.791	0.011294	11294.45
21	Dampara	1	8.273	0.033478	33478.07
22	MohuaBaganJhupri	2	12.949	0.052403	52402.88
23	Hazrapara	2	23.358	0.094526	94525.91
24	BijaraDhangapada	2	14.841	0.060062	60061.92
25	VijramahaliPara	2	16.133	0.06529	65290.29
26	AryabhattaJhupri	3	3.174	0.012844	12843.61
27	TansenmarketJhupri	3	0.647	0.002618	2617.54
28	S.N.BoseBustee	3	5.951	0.024081	24081.36
29	WilliamKerry	3	1.341	0.005426	5425.63
30	J.C.Bose-EinsteinBastee	3	81.584	0.33016	330160.39
31	Ispatpally Jhupri	4	4.099	0.01659	16590.26
32	Joydev Jhupri	4	6.049	0.024481	24480.70
33	Nuttan Pally Bustee	4	14.492	0.058647	58647.49
34	Vidyapati Jhupri	4	1.026	0.004151	4150.77
35	Bharati Road Jhupri	4	1.474	0.005965	5964.75
36	Vidyapati road Jhupri	4	1.256	0.005084	5084.42
37	Bharati Road Jhupri-1	4	0.608	0.002459	2458.94

38	Nagarjuna Extn. Jhupri-2	4	3.795	0.01536	15359.73
39	Nagarjuna Extn. Jhupri-1	4	17.483	0.070753	70752.53
40	Bagdi para	4	7.191	0.029102	29102.22
41	Disposal Baste	4	11.937	0.048307	48306.85
42	Desbandhu Bhaban Baste	4	2.590	0.010482	10482.09
43	Nepali Para Basti	4	10.579	0.04281	42810.29
44	Dolai Para Baste	4	1.086	0.004394	4393.52
45	C-Zone Mahaveer Sanglan Road	5	0.126	0.000512	511.58
46	C-Zone Baste	5	2.798	0.011324	11324.20
47	Kalibari Baste	5	1.973	0.007984	7983.89
48	Kashiram Das Baste	5	10.954	0.044328	44328.06
49	Chandidas Sector Market Baste	5	0.590	0.00239	2389.65
50	GandhiColonyBaste(NearChitralaya)	6	1.293	0.005234	5233.98
51	WaterTankBuste	6	1.393	0.005637	5636.60
52	MahiskapurRoadBuste(Kalimandir)	6	0.312	0.001265	1264.55
53	MarconiBuste	6	2.297	0.009294	9294.08
54	MahiskapurRoadBuste(Pukurpar)	6	0.821	0.003323	3322.54
55	TilakRoad	6	2.758	0.011161	11161.17
56	Newton-Police Phari Baste	7	0.220	0.00089	890.29
57	D.S.P Nurse Hostel Baste	7	1.780	0.007204	7204.30
58	Dayanadh Baste	7	0.387	0.001567	1567.12
59	Vidhan Bavan Baste	7	0.286	0.001158	1158.16
60	Pukur par Baste	7	5.579	0.022576	22576.31
61	NetajiSubhasRoadBaste	7	7.310	0.029583	29582.59
62	Edison-J.C. Bose road and Hospital Road	7	19.372	0.078398	78397.66
63	Newton- J.C Bose Road	7	24.477	0.099055	99054.93
64	Hostel Ave-1	8	0.660	0.002671	2671.42
65	Steel House Colony	8	12.005	0.048585	48584.73
66	Hostel Ave-2	8	0.897	0.003628	3628.37
67	AnandVihar	8	1.696	0.006865	6865.39
68	Trunk Road	8	11.300	0.045729	45728.75
69	Nishan Hut Baste & Taltala	8	5.231	0.021169	21169.41
70	Power House	8	13.229	0.053537	53537.18
71	Mirabai	8	0.706	0.002856	2856.20
72	Aurobindo Water Tank	8	1.411	0.005708	5708.32
73	Thulasi Dass or Mirabai	8	1.060	0.004289	4289.22
74	Aurobindo P.S.	8	3.246	0.013138	13137.97
75	Prantika (Ninsanhat)	9	0.590	0.002387	2386.72
76	Health Centre	9	5.243	0.021219	21218.87
77	SteelMarket	9	0.454	0.001839	1838.57

78	CRDassvetanaryBustee	9	0.368	0.001487	1487.28
79	KanishkaJupari	9	0.937	0.003791	3790.70
80	SceondaryAnandoAsram	9	1.090	0.004409	4409.44
81	AkbarRd	9	2.186	0.008848	8848.14
82	WaterTankBustee	10	0.720	0.002913	2913.05
83	RamkrishnaAvinueBustee	10	2.209	0.008939	8939.02
84	PaharPara	11	1.267	0.005128	5128.26
85	MonrBustee	11	27.289	0.110435	110434.86
86	NightSchool	11	16.468	0.066643	66642.77
87	HariramPara	11	2.624	0.010619	10619.09
88	LakshmanPara	11	9.133	0.03696	36960.01
89	Gosal Para	11	5.096	0.020621	20621.18
90	MajniPara	11	3.009	0.012176	12175.77
91	KandeswarBouripara	12	4.165	0.016854	16853.89
92	SantoshNagar	12	9.041	0.036588	36588.32
93	Kandeswar	12	36.725	0.148622	148621.58
94	NildangaJhupri&AmraiNildanga	12	14.180	0.057385	57384.99
95	Amrai(Muslimpara)	12	90.869	0.367737	367737.28
96	Durganagar	12	24.258	0.09817	98169.76
97	Amrai(Bouripara)	12	6.673	0.027006	27005.75
98	TamlaBastee-1	13	9.952	0.040273	40273.12
99	GhathakBustee	13	15.637	0.063283	63283.38
100	SaradaPally	13	13.426	0.054332	54331.89
101	Bhirangimore Jhupri	14	2.733	0.011062	11062.09
102	Naim Nagar Ruidaspara	14	4.660	0.018859	18858.65
103	Old Court	14	58.451	0.236546	236545.94
104	Tikulia Para Bastee	14	7.838	0.031719	31719.26
105	GhoshPara(Bouripara)	15	1.169	0.004732	4732.03
106	MohiskapurPlot(RuidasPara(Sasankpara)	15	0.213	0.000861	860.55
107	MohiskapurPlot(LakePukurPara)	15	4.942	0.019998	19997.78
108	GhosaiNagar	15	0.786	0.003181	3181.44
109	SukantaPallyBustee	16	1.490	0.006029	6029.10
110	Rabindrapally(West-2)	16	1.654	0.006694	6694.26
111	VidkariPukurPara	16	5.152	0.020849	20848.63
112	Rabindrapally(West-1)	16	1.258	0.005091	5091.11
113	Rabindrapally(Wast-3)	16	1.273	0.005154	5153.66
114	ShibtalaBauriPara	16	3.968	0.016058	16057.86
115	Rabindrapally(East)	16	1.642	0.006647	6646.90
116	DasPara	16	2.388	0.009662	9662.28
117	Muchipara	16	0.611	0.002474	2473.77

118	DhandabagVillageBaruipara	16	14.802	0.059901	59901.29
119	Korapara	16	8.977	0.036329	36328.56
120	DhandabagBanganpara	16	10.200	0.041279	41279.13
121	CentralStoreBustee	17	1.671	0.006761	6760.68
122	Deshbandhu Nagar	17	0.295	0.001195	1194.72
123	Deshbandhu Nagar Lagoon Jhupri	17	0.685	0.002774	2773.93
124	Benachity Nishanat Bastee-1	18	1.170	0.004734	4734.09
125	Benachity Nishanat Bastee-2	18	2.102	0.008506	8506.46
126	Water Tank	18	1.973	0.007983	7983.02
127	Bouripara	19	3.380	0.013677	13677.44
128	Ruidaspara	19	0.860	0.00348	3479.73
129	Srinagarpally D-Zone Bastee-2	20	0.348	0.001409	1408.63
130	Srinagarpally D-Zone Bastee-1	20	0.874	0.003536	3536.11
131	DMC Helath Centre Jhupri	20	2.796	0.011316	11315.55
132	Vidyasagar Pally Bouripara	20	3.477	0.014072	14072.46
133	Ruidaspara Srinagarpally	20	1.065	0.004308	4308.36
134	Ranchi Colony & Khatal	21	5.124	0.020735	20734.69
135	Ranchi Colony & Khatal	21	13.231	0.053545	53545.20
136	Adibastipara (Netaji Colony)	21	0.464	0.001878	1877.58
137	Chasipara Jhupri ( Netaginagar colony)	21	6.619	0.026786	26786.17
138	D-Type Bastee	22	0.987	0.003994	3994.42
139	Bulk Supply Bastee -2	22	1.327	0.00537	5370.36
140	Bulk Supply Bastee (Barab Colony )	22	4.964	0.020091	20090.74
141	Nabinpally Jhupri	23	20.797	0.084162	84161.96
142	Subhas pally ( M A M C )	23	23.017	0.093149	93149.21
143	Bhavani Pally	23	9.599	0.038847	38846.80
144	B-2 Bazar Bastee	23	6.313	0.025548	25547.95
145	Antala Bastee (M.A.M.C)	23	2.348	0.009502	9501.82
146	Pachimanchal Pally ( M A M C )	23	10.907	0.044141	44141.21
147	Ambkather Colony	23	1.381	0.005588	5587.91
148	Ambkather Colony	23	2.135	0.00864	8639.89
149	Ambkather Colony	23	18.617	0.075341	75340.54
150	B.O.G.L Colony Bastee	23	9.513	0.0385	38500.06
151	Ganatantra Colony -2	24	2.006	0.008118	8118.43
152	Subaspally	24	7.319	0.029618	29618.19
153	Ganatantra Colony -1	24	12.362	0.05003	50029.74
154	Swapana Market-1	24	0.541	0.002189	2189.25
155	Swapana Market-2	24	0.213	0.000861	861.48
156	Dakshin Pally	24	17.049	0.068997	68996.54
157	Babur Bandh	24	2.180	0.008824	8824.12



158	Mamra Baste (D.T.S.T )	24	1.123	0.004544	4544.18
159	Vidyasagar Pally	24	2.372	0.0096	9599.72
160	Marma Baste	24	0.968	0.003918	3918.37
161	Siddheswari Thala	24	1.168	0.004728	4728.43
162	Baste Adjacent to Bidhan Palli	24	7.016	0.028394	28394.27
163	Vivekhananda Pally	24	7.794	0.03154	31539.81
164	ASW Sweepers Colony Baste	24	3.249	0.01315	13150.07
165	Uttar Pally	24	27.599	0.111689	111688.86
166	Aurobindo Conony	24	5.323	0.021541	21540.85
167	Ruidaspara	25	0.745	0.003014	3014.41
168	Fuljhore Bouripara	25	2.029	0.00821	8210.25
169	Loharpara	25	1.700	0.006878	6877.84
170	Fuljhore Baste-2	25	0.723	0.002925	2925.39
171	Fuljhore Danga	25	16.280	0.065882	65882.48
172	Fuljhore Baste-1	25	0.151	0.000611	610.85
173	Haribazar Bouripara/ Ruidaspara/Muslim	25	18.935	0.07663	76630.04
174	Paradahi Bouripara	25	1.903	0.007701	7700.64
175	Pardio Road/Udbastapara	25	7.539	0.030508	30508.08
176	Jamaipara	25	1.445	0.005846	5846.28
177	Kumkuipara	25	2.495	0.010097	10096.63
178	Mojreokonda/ Adibasipara	25	1.622	0.006564	6563.52
179	Suryasen Colony	26	8.804	0.035629	35629.09
180	Zonal Market Jhupri	26	2.755	0.011148	11148.49
181	Paschimapally	26	3.152	0.012755	12755.03
182	Khudirampally	26	2.556	0.010345	10345.25
183	Jhamapally	26	8.268	0.033461	33460.54
184	Bidanagar Sub-Station	27	1.814	0.007339	7339.21
185	F.C.I Town jhupri (Sastri Avenue)	27	3.688	0.014924	14924.23
186	H.F.C Colony Jhupri	27	3.263	0.013204	13203.78
187	Indo American More Jhupri	27	0.229	0.000928	927.52
188	Sagarbanga Leprocy Colony	28	4.318	0.017474	17474.12
189	Colobagam	28	0.417	0.001686	1685.66
190	Ankupara	28	3.036	0.012284	12284.47
191	Bouripara	28	8.111	0.032826	32826.23
192	Bagdipara	28	2.359	0.009548	9547.97
193	Newton Tatipara	28	5.362	0.021698	21698.48
194	Gopinathpur (Raipara, baganpara)	28	13.587	0.054983	54983.49
195	Gopinathpur (Bouripara)	28	3.691	0.014936	14935.83
196	Khatpukar	28	6.921	0.028007	28006.95
197	Tower Colony	28	2.525	0.010217	10217.45

198	Ambagan Jhupri	28	3.755	0.015197	15196.92
199	Muchi para	28	0.390	0.001577	1576.72
200	Gosaitala	28	4.444	0.017984	17983.50
201	Khariasol ( Jhati Colon Trust)	28	2.275	0.009206	9205.59
202	Khariasol	28	9.155	0.037047	37047.50
203	Khariasol	28	8.660	0.035045	35045.28
204	Khariasol-1	28	1.224	0.004954	4953.90
205	Deshbhandhu Nagar Adjasant to Railgate	29	24.349	0.098539	98538.88
206	Ghusir Dunga Baste	29	3.884	0.015717	15716.90
207	Nutanpally Railpara Baste	29	1.121	0.004537	4537.29
208	Dompara	29	0.325	0.001316	1316.47
209	Graphite India Baste	29	0.218	0.000881	881.10
210	Gopinathpur ( Musliampara, Ruidas, Dhipar	29	17.457	0.070648	70648.42
211	Sagarbanga Pukurpara	29	3.950	0.015985	15984.81
212	Sagarbanga Jhupri	29	0.370	0.001497	1496.57
213	Old B.D.O Office & N.N Boseroad Baste &	29	1.997	0.008083	8082.89
214	Old B.D.O Office & N.N Boseroad Baste &	29	1.747	0.007072	7071.51
215	Gandhinagar Colony	30	4.657	0.018846	18845.68
216	Lilauh Bandbh Baste	30	4.666	0.018881	18881.39
217	Cinema Road Baste	30	2.771	0.011214	11213.99
218	Ambakather Colony	30	4.266	0.017262	17262.17
219	Hind Colony Baste	30	6.581	0.026634	26633.87
220	East Railwaygate Jhupri	30	5.458	0.022087	22086.72
221	Bhagatpally	30	7.392	0.029915	29914.60
222	Security Barrack	31	1.207	0.004884	4883.95
223	Labour Hal Salbagan	31	10.327	0.041793	41792.79
224	2nd No. Daspara	31	3.734	0.015112	15111.86
225	Sankarpally	31	3.077	0.012451	12450.88
226	Batala Baste	31	3.762	0.015224	15224.03
227	Labour Hut Nepalipara & Batala Baste	31	3.289	0.013312	13311.63
228	Labour Hut Nepalipara	31	0.994	0.004024	4024.29
229	C-Zone Manaspally	31	7.031	0.028454	28453.52
230	Nuttanpally & Daspara-1 & 1 No. Nuniapara	31	5.135	0.020781	20780.63
231	Second number gate jhupri	31	1.811	0.007327	7327.04
232	Batul Jhupri	31	3.986	0.016133	16132.87
233	Bhavanipally	31	11.875	0.048056	48056.08
234	C-Zone Biswanathpally	31	7.391	0.02991	29909.78
235	Kalipur Village Bouripara	31	2.246	0.009091	9090.71
236	DVC More Bhagat Singh Colony	31	9.074	0.036722	36722.39
237	AssramBuste	31	1.843	0.007459	7458.70

238	Chasipara Baste	32	5.650	0.022865	22865.07
239	Dangapara	32	2.707	0.010956	10956.07
240	Dangapara	32	2.158	0.008732	8731.91
241	Palashidhahapri	32	9.084	0.036763	36762.85
242	DakshinMath	32	2.727	0.011037	11036.89
243	Utarbasipada	32	28.149	0.113915	113914.71
244	Suripukarpar	33	0.200	0.000808	807.95
245	Suripara	33	0.645	0.00261	2609.65
246	Subjibustee_A	33	1.696	0.006865	6864.59
247	DSPGATE	33	22.270	0.090126	90125.78
248	Bouripara	33	4.053	0.016404	16403.53
249	Kulupuku	33	1.558	0.006306	6306.31
250	Bagdipara	33	0.464	0.001877	1877.19
251	Badayakapara	33	0.284	0.001151	1150.93
252	Subjibustee_B	33	3.141	0.012713	12713.24
253	TamlaBustee	33	68.620	0.2777	277700.01
254	NuttanPukarBusti	33	7.687	0.031109	31108.70
255	Taliganjbustee	33	10.435	0.042231	42231.06
256	G.T Road Chasipara	33	16.755	0.067805	67805.03
257	G.T Road Ruidaspara	33	4.178	0.016907	16907.30
258	WariaRly.Stn	34	8.037	0.032527	32526.75
259	CementGate	35	3.059	0.012381	12380.64
260	Railwaycolony	35	1.285	0.005202	5201.57
261	Kadaroadjhupri	35	200.052	0.80959	809590.08
262	Dhunara(Gopalmath)	35	11.432	0.046264	46263.72
263	Mohanpur	35	4.971	0.020118	20117.62
264	Jagurbandh(Gopalmath)	35	8.603	0.034816	34815.51
265	Punabad	35	2.599	0.010516	10516.35
266	Banagramgrowth	35	1.267	0.005127	5127.29
267	Sujara	35	1.245	0.00504	5040.02
268	Mejedihi(Bhouripara)	35	1.040	0.004211	4210.65
269	PadmaPukuri	36	3.629	0.014686	14686.32
270	Mayabazar	36	9.656	0.039077	39076.87
271	LayekParaJhupri	36	2.384	0.009649	9648.90
272	DakshinPalastala	37	48.428	0.195984	195983.74
273	Angadpur	37	2.272	0.009195	9194.53
274	BhairabaTala	37	0.920	0.003724	3723.65
275	DTPS3rdColony-1	37	2.335	0.009448	9447.87
276	ArjunpurTentultala&DangalPara	37	13.341	0.05399	53990.22
277	JitonNagarBustee	37	2.803	0.011344	11344.09

278	DTPS3rdColony-2	37	0.442	0.00179	1790.35
279	SukantaPally&KhatalBustee	37	2.520	0.010199	10199.27
280	NabaPurshaBustee	37	4.212	0.017046	17046.16
281	RaturiaPally-2	38	0.517	0.002091	2090.95
282	RabinSenPallyBusteeAdjecenttoEastIndia	38	5.216	0.021107	21106.83
283	RaturiaPally-1	38	3.113	0.012599	12598.68
284	Raturia-3	38	0.357	0.001443	1443.01
285	GhoshParaBusteeAdjecenttoHousing	38	1.741	0.007046	7045.72
286	RNDuttaComp	38	8.880	0.035937	35937.21
287	GhoshParaBustee	38	2.449	0.009909	9909.17
288	RabinSenPallyBusteeAdjecenttoEastIndia	38	3.541	0.014332	14332.01
289	TentulTalaPaschimanchal	38	6.608	0.026741	26740.64
290	1 & 2 no's Bagdipara	39	6.351	0.025702	25701.66
291	Taltala Bustee & Nababedi Canalpar Bustee	39	3.352	0.013567	13567.21
292	Irrigation Canal Par Jhupri	39	3.908	0.015815	15815.41
293	Nababedi Canalpar Bustee	39	0.442	0.001789	1789.09
294	Pipe Para upto Tentul Banga Bustee	39	4.199	0.016992	16991.67
295	Vidyasagar Pally Canal Side	39	4.499	0.018206	18206.30
296	Bustee Adjecent to Bibhanpur Nutanpally	39	5.015	0.020295	20294.88
297	Ashishnagar Colony	39	26.745	0.108233	108233.14
298	Vidyasagar Pally	39	14.153	0.057275	57275.16
299	Shihid Khudiram Colony	39	31.293	0.126639	126638.70
300	Nuttanpally Adibasipara	39	15.399	0.062317	62317.37
301	Banik More	40	2.870	0.011613	11612.61
302	State Poultryform Bustee	40	1.059	0.004285	4285.17
303	Sharmik Mangal Kendra Bustee	40	1.075	0.004349	4349.41
304	Aluminium Barrck	40	0.594	0.002405	2404.66
305	Railgate Kalpataru Nagar Colony	40	11.119	0.044999	44999.45
306	Wood Industries Bustee	41	6.259	0.025331	25330.85
307	Kalibartala & Anukurpara Adjecent to Ten	41	30.250	0.122417	122417.45
308	Ambagan and Ruidaspara	41	9.713	0.039307	39307.34
309	Mahananda Colony	41	9.456	0.038266	38266.43
310	Damodar Colony East	41	5.193	0.021014	21013.90
311	Shramik nagar Kalojalpara	41	0.308	0.001248	1247.66
312	Rail Colony	41	1.082	0.004377	4377.43
313	Shimulala	41	2.741	0.011091	11090.82
314	Shamponintala Bouripara	42	1.542	0.006239	6239.27
315	Barrage Site Bustee	42	3.219	0.013028	13027.53
316	Sukumar Nagar Canal	42	2.391	0.009676	9675.92
317	Naraynapur Beleganda	43	1.656	0.006703	6703.05

318	Narayanpur Basarpara	43	1.447	0.005856	5856.44
319	Ankuripara & Bagdipara	43	2.881	0.011659	11658.60
320	Naraynapur Bouripara	43	2.940	0.011897	11897.30
321	Bhiravpur Badaykarpara	43	0.207	0.000838	837.65
322	Nadiha Bagdipara	43	0.925	0.003744	3744.13
323	Nadiha Bilbanga	43	0.328	0.001329	1328.67
324	Anadapur (Maghbagdipara & Baddakarpara)	43	2.697	0.010916	10916.38
325	Nadiha Bagdipara	43	11.156	0.045146	45146.25
326	Anandpur (Bagdipara, Bouripara & Ankurapar	43	12.229	0.049488	49487.75
327	Nadiha Muchipara & Ruidaspara	43	5.338	0.021601	21600.57
328	Anadapur Canal Para Bastee	43	11.004	0.044531	44531.18
329	Sukantapally Canal Para (East & West)	43	22.200	0.089842	89841.64
330	Ho-Chi Monn Pally Bastee	43	6.912	0.027972	27972.20
331	Roydanga Railpar School Bastee	43	3.203	0.012964	12964.17
332	Roydanga Bouripara	43	3.947	0.015975	15974.75
333	Kururia(Vill.Bouripara)	11	3.831	0.015502	15501.99
334	Num Ruidas Para		2.269	0.009182	9182.42
<b>TOTAL</b>			<b>2950.319</b>	<b>11.93965</b>	<b>11939646.71</b>

**Various types of land uses exist in the locality. The salient sectors of land uses are as follows:**

- Residential
- Commercial
- Wetland/ lakes / tanks
- Public parks, squares and gardens
- Vacant land
- Roads
- Drainage networks and outfalls
- In-sanitary water courses
- Institutional

Mayor  
Durgapur Municipal Corporation

Commissioner  
Durgapur Municipal Corporation

**Table1.7.1: The Land use distribution in Durgapur Municipal Corporation area is as follow.**

	Land Use	Percentage to total area of 154.2 sq.km.
1.	Residential	20.8
2	Industrial	30
3	Commercial	3.4
4	Mixed	7
5	Vacant land, unused land/ undeveloped land	11
6	Roads/transportation	16
7	Wetlands/Lakes/Tanks	5.2
8	Public parks, squares and garden	5.6
9	Public/semi-public	1
	TOTAL	100

## 1.8 Overview of proposed Development Schemes

In the course of preparation of City Development Plan for 5 years (2014-15 to 2018-19) Municipality has identified 110 numbers of schemes with cost involvement of Rs 144579.4 lakh. The following table depicts the number of schemes and cost involvement for each Category and Sub- Category (year wise) at a glance.

CATEGORY	SUB-CATEGORY	SCHEME WITH AMOUNT	14-15	15-16	16-17	17-18	18-19	TOTAL
CATEGORY-1 INFRASTRUCTURE, LAND USE AND ENVIRONMENT DEVELOPMENT	Sub-category 1.1: Intra-municipal Infrastructure	Total Number of Scheme	43	43	43	43	43	43
		Amount ( Rs In lakh)	10378.76	14267.99	21609.56	29102.3	29616.41	104975.02
	Sub-category 1.2: Slum Infrastructure	Total Number of Scheme	12	12	12	12	12	12
		Amount ( Rs In lakh)	6215	6579	4264	5448.5	5076	27582.5
	Sub-category 1.3: Trans-municipal Linkages	Total Number of Scheme	0	0	0	0	0	0
		Amount ( Rs In lakh)	0.00	0.00	0.00	0.00	0.00	0.00

CATEGORY	SUB-CATEGORY	SCHEME WITH AMOUNT	14-15	15-16	16-17	17-18	18-19	TOTAL
	Sub-category 1.4: Land Use Development	Total Number of Scheme	4	4	4	4	4	4
		Amount (Rs In lakh)	578.00	925.75	1065.75	1102	1106.75	4778.25
	Sub-category 1.5: Environment Management	Total Number of Scheme	4	4	4	4	4	4
		Amount (Rs In lakh)	40.00	248.00	186	154	144	772.00
	CATEGORY WISE TOTAL	Total Number of Scheme	63	63	63	63	63	63
		Amount (Rs In lakh)	16593.76	21772.74	27125.31	35806.8	35943.16	137335.77
CATEGORY-2 SOCIAL AND LIVELIHOOD DEVELOPMENT	Sub-category 2.1: Livelihood and Poverty Alleviation	Total Number of Scheme	7	7	7	7	7	7
		Amount (Rs In lakh)	903.35	1026.35	1081.85	1105.85	1136.1	5953.5
	Sub-category 2.2: Local Economic Development	Total Number of Scheme	3	3	3	3	3	3
		Amount (Rs In lakh)	15.00	30	32.00	34.00	34.00	145.00
	Sub-category 2.3: Primary Healthcare Services Delivery Improvement	Total Number of Scheme	11	11	11	11	11	11
		Amount (Rs In lakh)	96.1	246.4	304.4	311.6	331.6	1290.1
	Sub-category 2.4: Improvement of Education	Total Number of Scheme	12	12	12	12	12	12
		Amount (Rs In lakh)	9.80	28.8	28.8	28.8	28.80	125.00
	CATEGORY WISE TOTAL	Total Number of Scheme	33	33	33	33	33	33
		Amount (Rs In lakh)	999.45	1331.55	1415.05	1446.25	1467.7	7243.6
CATEGORY-3 MUNICIPAL INSTITUTIONAL STRENGTHENING	Sub-category 3.1: Organization Development	Total Number of Scheme	6	6	6	6	6	6
		Amount (Rs In lakh)	55.5	84.25	84.25	58.25	58.25	340.50
	Sub-category 3.2: Internal Process and Systems Improvement	Total Number of Scheme	2	2	2	2	2	2
		Amount (Rs In lakh)	6.00	6.00	6.00	6.00	6.00	30.00
	Sub-category	Total	4	4	4	4	4	4

CATEGORY	SUB-CATEGORY	SCHEME WITH AMOUNT	14-15	15-16	16-17	17-18	18-19	TOTAL
	3.3: Citizen Interface	Number of Scheme						
		Amount (Rs In lakh)	1.90	3.7	3.7	3.7	3.7	17
	Sub-category 3.4: Financial Plan for Institutional Strengthening	Total Number of Scheme	2	2	2	2	2	2
		Amount (Rs In lakh)	3.00	8	9.00	5.00	5.00	30.00
	CATEGORY WISE TOTAL	Total Number of Scheme	14	14	14	14	14	14
		Amount (Rs In lakh)	66.4	101.95	102.95	72.95	72.95	417.2
YEAR WISE GRAND TOTAL	Total Number of Scheme	110	110	110	110	110	110	
	Amount (Rs In lakh)	17659.61	23206.24	28643.31	37326	37483.81	144579.4	



**Table 20: Infrastructure at a glance of Durgapur Municipal Corporation**

**Infrastructure at a glance of Durgapur Municipal Corporation:**

1	<b>Name of the District:</b>	Paschim Bardhaman
2	<b>Year of establishment:</b>	1997
3	<b>Area (in sq. Km):</b>	154.20 sq. km.
4	<b>No. of wards:</b>	43
5	<b>Population (Census 2011):</b>	
5.1	Male	293731
5.2	Female	269826
5.3	Total	563557
6	<b>Density of Population (Per sq. km.)</b>	1425
7	<b>Break up of Population (2011):</b>	
7.1	SC	75233
7.2	ST	13606
7.3	Minorities	Not available
8	<b>Date when last election held:</b>	2012
9	<b>Year of Last Assessment of Properties:</b>	
10	<b>Literacy Rate</b>	
10.1	<b>MALE</b>	240985
10.2	<b>FEMALE</b>	198240
11	<b>Number of BPL Household (as per SUDA Survey):</b>	2352
12	<b>Slum Scenario</b>	
12.1	Total No of Slum	334
12.2	Total Slum Population (as per PMAY Demand Survey)	150000(APPROX)
12.3	Percentage of Slum Population to the total population	26%
13	<b>Housing status for Urban Poor: ( as on 31.03.14)</b>	
13.1	No. of beneficiaries provided with Houses under BSUP / IHSDP/ "Housing for Urban Poor"	4218  House for Urban poor-233
14	<b>Length of Municipal Pucca Road: (in km.)</b>	966 k.m.
15	<b>Length of Drain: (in km.)</b>	1329.8 k.m.
16	<b>Water Supply:</b>	
16.1	No. of Deep Tubewell	0
	Overhead Reservoir	30
16.2	No. of Stand post	2809
16.3	No. of houses connected with water supply network	22443
17	<b>Total no. of light posts.</b>	21050
17.1	Total no. of HIGH MAST light posts	23
17.2	Total no. of TRIDENT light posts	57
18	<b>Health :</b>	
18.1	No. of Hospital (ULB / Govt./ Private)	1 (Govt.)
18.2	No. of Municipal Health Sub-Centre	
19	<b>Education :</b>	
19.1	No. of Higher Secondary School	23

19.2	No. of Secondary School	9
19.3	No. of Primary School	102(others),2(municipal)
19.4	No. of SishuSikshaKendras (SSK)	78
19.5	No. of ICDS CENTRE	188
20	<b>Other Infrastructure (Both Municipal &amp; Others) :</b>	
20.1	Bridge	Big:8 Bridges:17
20.2	Flyover	2
20.3	Stadium	5
20.4	Parks and Gardens	55
20.5	Playground	81
20.6	Auditorium/Community Hall	AUDT. 5, C.H.-26
20.7	Borough Office	5
20.8	Ward office	43
20.9	ULB Market	2
20.10	Burning Ghat	1
20.11	Electric Crematorium	1
20.12	Burial Ground	8
20.13	Public Library	3
20.14	Bus Terminus	3
20.15	Ferry Ghat	NIL
20.16	Guest House/ Tourist Lodge	G.H-8 , T.L-1
20.17	Community Latrine	

### Water supply

The Durgapur area is situated in the western part of Burdwan district. Due to limited source of under ground water, the Damodar River is the major source of community water supply in Durgapur area. As per decision made by DNA authority, a 14 MGD Water Treatment Plant was proposed in 1992. The phase -1 part of this work for supplying 7MGD treated water had been taken up in 1996.

Out of total plant capacity 14 MGD, the 1<sup>st</sup>. phase for supply of 7 MGD of water to Durgapur Municipal area was commissioned in 1998. The scheme under phase – I had been designed to supply water to the western zone of Durgapur city. The phase- II of the water supply augmentation scheme for Durgapur Municipal area is designed to meet to the need of water at Eastern zone of Durgapur both for domestic and industrial purpose utilizing balances 7.00 MGD capacity.

In the existing system under Phase-I, raw water of river Damodar is drawn from a feeder canal, which is connected to Durgapur Barrage.

The command area of water supply system commissioned under Ph-I served from the overhead reservoir situated at Amrai, Faridpur, Bhiringhi, Benachity, Salbagan, Gopal Math, Non-Company, SAIL Co-operative & ADDA CWR at City – Centre, Durgapur.

Under the Augmentation of Ph-II the area will be served from the over head reservoir at Angadpur, B-I More, Kamalpur, Ambuja and Sepco.

The purification of raw water has been done by conventional treatment process, which involves the following process, such as Flash Mixing, Clariflocculation, Rapid Gravity Filtration and adequate Disinfection.

At present 14 mgd water is being supplied everyday in DMC area. Though 16.75 mgd water is required. So there is a gap of 2.75 mgd water. There are 11 overhead reservoirs having capacities varying from 50,000 gallons to 200,000 gallons. These are in general, in good structural conditions. In addition, there are two ground reservoirs also to receive the treated drinking water from the Angadpur Water Treatment Plant. There are 23 pumps for supplying water.

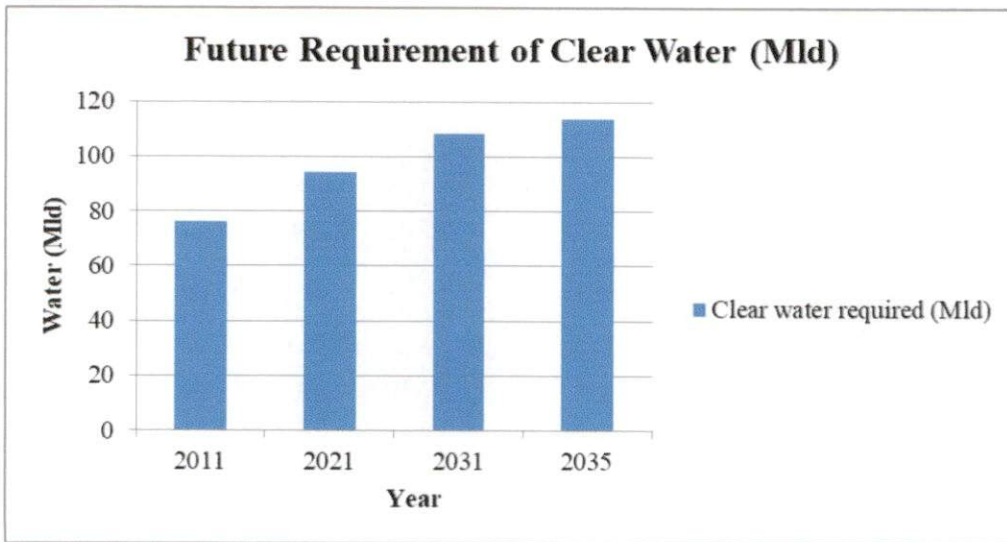
About 275 kilometers of water distribution pipelines varying in sizes from 80mm diameter to 450 mm diameter. Pipe materials are mostly asbestos cement (AC). A small percentage of pipe length is cast iron (CI). There are 2526 nos. of stand posts and 263 nos. of hand pumps spread all over the corporation. Distribution system network analysis should be performed in order to augment the supply of water.

**Table 5.1.1- Service level benchmark of water supply indicator values**

Indicator	Central level Benchmark	State level Benchmark	Status of 2013	Status of 2014	Status of 2015
Coverage of water supply connections	100%	100%	74%	31%	38%
Per capita available of water at consumer end	135 Lpcd	135 Lpcd	74 Lpcd	133 Lpcd	135 Lpcd
Extent of metering of water connections	100%	100%	1%	4%	10%
Extent of Non Revenue Water	20%	20%	10%	7%	7%
Continuity of water supply	24/7 Hrs/Day	24/7 Hrs/Day	24/7 Hrs/Day	5 Hrs/Day	5 Hrs/Day
Efficiency in redressal of customer complaints	80%	80%	98%	60%	60%
Quality of water supplied	100%	100%	100%	100%	100%
Cost recovery in water supply services	100%	100%	52%	70%	75%
Efficiency in collection of water supply related charges	90%	90%	95%	90%	90%

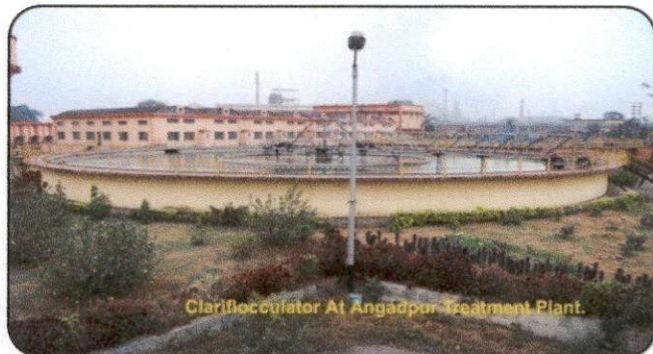
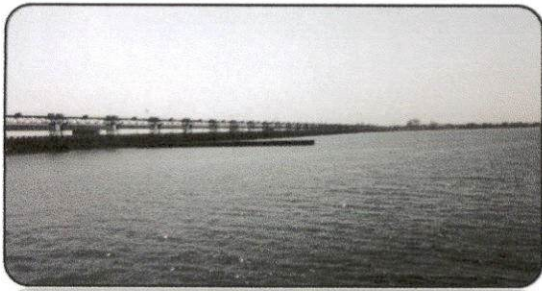
**Table 5.1.2- WATER DEMAND Calculated upto 2035**

Year	Population	Raw water required (Mld)	Clear water required (Mld)
2011	563557	91.72	76.08
2021	698853	113.74	94.35
2031	801243	130.40	108.17
2035	842198	137.07	113.70



**water demand calculated up to 2035**

Water requirement of the city has been calculated from 2011 to 2035 by taking into consideration the projected population as shown in the above table. According to UDPFI guidelines, for a large size town the absolute minimum water requirement for domestic use is 135 lpcd and in case of the city of Durgapur, domestic water demand is calculated at also 135 lpcd.



### Drainage

In the West Burdwan district, especially in the northern belt and so the Durgapur town suffers from drainage problem. In Durgapur municipal Corporation only 29 % of the total network is pucca. The rest is kutchra or earthen drains. The drains of Durgapur town are mostly shallow and non-lined. In many areas the drains are either clogged or has physically disappeared.

#### **Status of Drain**

<b>Drainage :</b>	
Length of Kutchra Drain (in km.)	544 k.m.
Length of Pucca Drain (in km.)	782 k.m.
Length of underground / covered Drain (in km.)	4
Total length of Drain (in km.)	1330 k.m.
No. of wards fully covered with Pucca Drain	25
No. of wards partly covered with Pucca Drain	18

#### **Status of Drains in the Municipality**

### Sanitation and sewerage network

Drainage system is not a properly organised system in Durgapur. There is no underground drainage system presently in Durgapur. Currently there are more than 95% open drains throughout the municipal area of the town. There is a pilot sewage treatment plant to service the areas of city centre and Bengal Ambuja housing using aerated lagoon treatment method. However this is operated by ADDA. At present the sewage collection system exists in a very small portion of the town.

DMC falls in the Damodar valley basin area; most of the natural drains flowing through the industrial town empty the sludge and spent water into the river Damodar either directly or through main drainage channels. These drainage channels are the main source of pollution of River Damodar as most of them empty untreated industrial and domestic wastewater into the river. The main drainage system consists of two main channels namely, Tamla Nulla and Kunur Nulla.

### **Project Cost and Financing Strategy**

#### **For Dwelling Unit**

Total no of Dwelling unit = 1867 Nos.

Rate per Dwelling unit = 3.68 Lakhs

Total Cost of Dwelling unit = 1867 x 3.68 = 6870.56 Lakhs

Central Share = 1867 x 1.5 Lakhs = 2800.50 Lakhs

State Share = 1867 x 1.83 Lakhs = 3416.61 Lakhs

Beneficiary Share = 1867 x 0.35 Lakhs = 653.45 Lakhs

ULB Share = NIL

### For Infrastructure

10 % of total Dwelling unit cost = 6870.56 Lakhs x 10% = 687.056 Lakhs

Central Share = NIL

State Share = 50% x 687.056 Lakhs = 343.528 Lakhs

Beneficiary Share = NIL

ULB Share = 50% x 687.056 Lakhs = 343.528 Lakhs

The total project cost will be 7557.616 crores

Out of these 6.87 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 of 1867 Dwelling Units	6870.56
2.	Infrastructure Cost	687.056
<b>Total</b>		<b>7557.616</b>

*Sau*  
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Sub-Assistant Engineer  
Durgapur Municipal Corporation

Assistant Engineer  
Durgapur Municipal Corporation

### Materials of construction:

PCC (1:3:6) for foundation

RCC M-20 for substructure & superstructure (Column, Beam, Slab)

HYSD Steel

1<sup>st</sup> Class Brick Masonry

1:6 (Cement: Sand) plaster – 10 mm on soffit of beam & slab, 15 mm on internal walls & 20 mm on external walls

IPS flooring

### **BUILDING PLAN**

The buildings are proposed to cover an area of approximate 32.18 Sq.mt along with provision of 2 rooms, kitchen and sanitation facility. The layout, size and type design of housing dwelling units depends on the local conditions and the preferences of the beneficiary. The houses, has been designed in accordance with the desire of the beneficiaries, keeping in view the climatic conditions and the need to provide ample space, kitchen, ventilation, sanitary facilities, etc. and the community perceptions, preferences and cultural attitudes.

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

### **BUILDING MATERIAL**

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

### **STRUCTURAL DESIGN**

- Following are the general considerations in the analysis/design.
- For all structural elements, M20 grade concrete and Fe 415 grade of steel is used.
- Plinth beams passing through columns are provided as tie beams.
- Pedestals are proposed up to ground level.
- Beam Centre-line dimensions are followed for analysis and design.

- For all the building, walls of 250 mm and 125mm thick with 20 mm External plaster and 12 mm thick internal plaster are considered.
- Seismic loads are considered acting in the horizontal direction along either of the two principal directions.

## **Design data**

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

## **Reference codes:**

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

### **IDENTIFICATION OF BENEFICIARIES**

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



### **ALLOTMENT OF HOUSES**

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

### **TOWN PLANNING NORMS**

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

All planning are done as per UDPFI & 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.

## **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.

#### **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 35000/-. As per PMAY guidelines no contribution from the beneficiaries is expected in infrastructure improvements

#### **STATE CONTRIBUTION:**

Remaining share i.e. 1.83 lakhs per Dwelling Unit would have to be arranged by the State. State will also contribute 5% of total Dwelling cost for infrastructure.

#### **ULB CONTRIBUTION:**

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

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

#### **Table-27: Share of Fund**

Type of City/Towns as per 2011 census	Component	Contribution of			
		Central Rs.(Lakhs)	State Rs.(Lakhs)	ULB Rs.(Lakhs)	Beneficiaries Rs.(Lakhs)
Total cost of Beneficiary LED Construction	Housing	1.5	1.83	Nil	0.35
	Infrastructure	Nil	5 %	5 %	Nil

Paul  
6/18/19  
Sub-Assistant Engineer  
Durgapur Municipal Corporation

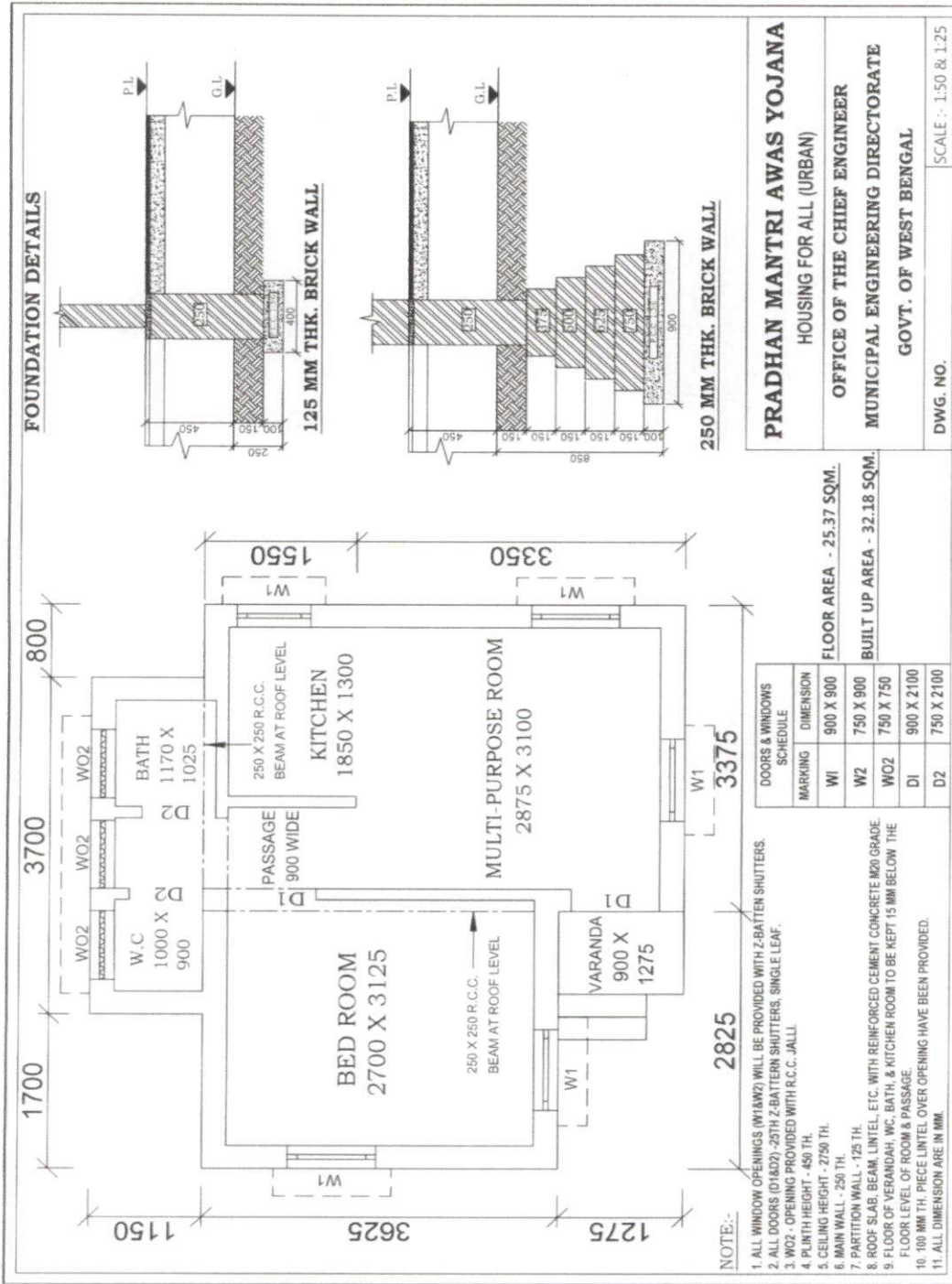
Assistant Engineer  
Durgapur Municipal Corporation  
6/18/19

BISW  
06.08.19  
EXECUTIVE ENGINEER  
M. E. D. E.  
GOVERNMENT OF W.B.  
POSTED AT  
DURGAPUR MUNICIPAL CORPORATION

## Section 2 – Project Cost Estimate

### 2.1. Detailed Estimates

Figure- 3: Drawing of Dwelling Unit



*Prady*  
*Commissioner*

*IBS*  
*06.08.19*

*Said*  
*6/8/19*

**Sub-Assistant Engineer**  
Durgapur Municipal Corporation

**EXECUTIVE ENGINEER**  
M. E. DTE  
GOVERNMENT OF W.B.  
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**Durgapur Municipal Corporation**

**2.1.1. Detailed Estimate of Provision of Housing**

**DETAILED ESTIMATE FOR THE CONSTRUCTION OF SINGLE UNIT DWELLING HOUSE**

**Pradhan Mantri Awas Yojana Housing For All (Urban)**

**Total Covered Area- 32.18 sq.m (With Electrical Works)**

Reference of Schedule of Rates : PWD (W.B.), Schedule of Rates Building & Sanitary w.e.f-  
01.07.2014 & Corrigenda

**Floor Area 25.37 sqm**

SL No.	Description of Works	Quantity	Unit	Rate (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 .	13.000	%cu.m.	12047.00	1566.11
	<b>SOR, PWD, P-1, I -2 a</b>				
2	Earth work in filling in foundation trenches or plinth with good earth in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete.( Payment to be made on the basis of measurement of finished quantity of work ) a) With earth obtained from excavation of foundation.	11.120	%cu.m.	7831.00	870.81
	<b>SOR, PWD, P-1, T/3 a</b>				
3	Supplying Laying Polithin Sheets etc. <b>SOR, PWD, P-45, T - 13</b>	22.000	sqm	25.00	550.00
4	Cement concrete with graded Stone ballast (40 mm.) excluding shuttering.a) In ground floor and foundation.6 : 3 : 1 proportion Pakur variety <b>SOR, PWD, Page 24 ; Item -10 a</b>	3.500	cu.m.	5823.00	20380.50
5	25 mm. thick damp proof with cement concrete (4:2:1) (with graded stone aggregate 10 mm. Normal size) and painting the top surface with a coat of bitumen using 1.7 kg. per sq.m. including heating the bitumen and cost and carriage of all materials complete. <b>SOR, PWD, P-45, T-12</b>	6.810	sqm,	297.00	2022.57

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01.07.2014 & Corrigenda**Floor Area 25.37 sqm**

SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
6	Brick work with 1st class bricks in cement mortar (6:1)				
	a) In foundation and plinth.	10.430	cum	5719.00	59649.17
	b) In super structure <b>SOR, PWD, P-29, T -22(a), (b)</b>	15.240	cum	5943.00	90571.32
7	125mm thick brick work with 1st. class bricks in cement mortar (4:1). a) In ground floor <b>SOR, PWD, P-73, I -29</b>	23.220	sq.m.	783.00	18181.26
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. (i) Pakur Variety <b>SOR, PWD, P-14, T -7(i)</b>	3.940	cu.m.	6851.66	26995.54
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. <b>SOR, PWD, P-27, T -15(i)</b>	0.309	MT	60705.93	18775.74

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01.07.2014 & Corrigenda**Floor Area 25.37 sqm**

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.) <b>SOR, PWD, P-66, T -12(a)</b>				
	25 mm. to 30 mm. thick wooden shuttering as per decision & direction of Engineer-in-charge. Ground Floor	37.063	M <sup>2</sup>	360.00	13342.68
11	Plaster ( to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface, including throating, nosing and drip course where necessary . In ground floor. A) With 6:1 cement mortar. a) Inside wall 20 mm thick plaster <b>SOR, PWD, P-151, T -2 (i)(b)</b>	116.940	sq.m.	181.00	21166.14
	b) Out side Wall, 15mm th. <b>SOR, PWD, P-151, I -2 (i)(c)</b>	111.950	sq.m.	156.00	17464.20
	B)10mm th ceiling plaster (4:1) <b>SOR, PWD, P-151, I -2 (i)(c)</b>	23.330	sq.m.	140.00	3266.20
12	Neat cement punning about 1.5mm thick in wall, dado, window, sills, floor, drain etc. <b>SOR, PWD, P-152, I -8</b>	26.700	sq.m.	38.00	1014.60

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01.07.2014 & Corrigenda**Floor Area 25.37 sqm**

SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
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 <b>SOR, PWD, P-40, I-3 (i)</b>	26.490	sq.m.	265.00	7019.85
14	Supplying, fitting & fixing MS clamp for fixing door and window frame made of flat bent bar, end bifurcated, fixed in cement concrete with stone chips (4:2:1) a fitted and fixed complete as per direction. 40mm x 6mm x 125 mm length. (Cost of cement concrete will be paid separately) <b>SOR, PWD, P-90, I-18 (c)</b>	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 <b>SOR, PWD, P-85, T -1(i)</b>	0.213	cu.m.	46171.00	9834.42
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	8.520	sq.m.	1567.00	13350.84



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SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	<b>SOR, PWD, P-105, I -84 (iv)c</b>				
17	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. a)75mm x 47mm x 1.70mm <b>SOR, PWD, P-91, T -20(iv)</b>	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 <b>SOR, PWD P-93, I-25,c</b>	11.000	each	71.00	781.00
19	White washing including cleaning and smoothening surface thoroughly (5 parts of stone lime and 1 part of shell lime should be used in the finishing coat). Two Coats <b>SOR, PWD, P-155, I -3 (b)</b>	124.960	%sq.m.	1887.00	2358.00
20	Colour washing with ella with a coat of white wash priming including cleaning and smoothening surface thoroughly external surface One Coat <b>SOR, PWD, P-155, I - 4(ii)(a)</b>	100.560	%sq.m.	1514.00	1522.48
21	Priming one coat on timber, plastered or on steel or other metal surface with synthetic enamel/oil bound primer of approved quality including smoothening surfaces by sand papering etc.				
	1) On timber surface <b>SOR, PWD, P - 162, I - 7(a)</b>	21.690	sq.m.	41.00	889.29
	2) On Steel Surface <b>SOR, PWD, P - 162, I - 7(b)</b>	2.700	sq.m.	31.00	83.70

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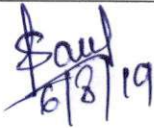
SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
22	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary : With super gloss (hi-gloss)-With any shade except white.				
	a) On timber or plastered surface Two Coats	21.690	sq.m.	89.00	1930.41
	b) On Steel surface Two Coats	2.700	sq.m.	86.00	232.20
	<b>SOR, PWD, P - 162, - 8A(aii),(bii)</b>				
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	2.000	each	193.00	386.00
	<b>SOR, PWD, P-93, I - 27c</b>				
24	Precast piered concrete jally work as per design and manufacture's specification including moulding etc. with stone chips and necessary reinforcement shuttering complete including fitting, fixing in position in all floors. (a) 37.5 mm th. panels Cement & steel required for this item <b>will not be</b> issued by deptt.	1.690	sq.m.	351.00	593.19
	<b>SOR, PWD, P-32, I - 38 (b)</b>				
25	Supplying, fitting and fixing UPVC down pipes A type and fittings conforming to IS 13592-1992 with necessary clamps nails including making holes in walls, etc. and cutting trenches in any soil, through masonry concrete structure etc. if necessary and mending good damages including jointing with jointing materials ( Spun yarn, valamoid / bitumen / M. seal etc.) complete.				
	<b>P-173, I-21 A (ii), C(ii), D(ii)</b>				
	<b>SOR, PWD, P173, I - 21 A (ii), C(ii), D(ii)</b>				
	i) UPVC Pipe 110 mm dia	3.000	Mtr.	291.00	873.00

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SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	ii) UPVC Bend 87.5 degree 110 mm dia	2.000	each	162.00	324.00
	iii) UPVC Shoe 110 mm	1.000	each	128.00	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 to 16 kg/m <sup>2</sup> <b>SOR, PWD, P - 76, I - 10 (i)</b> <i>(2.70sqm @ 10.5kg per sqm = 28.35 kg)</i>	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 <b>SOR, PWD, (Sanitary) P - 65, I - 1 (iii)</b>	1.000	each	1062.00	1062.00
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. <b>SOR, PWD, (Sanitary) P - 66, I - 9</b>	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 <b>SOR, PWD, (Sanitary) P - 54, I - 14(B-iii)</b>	1.000	each	923.00	923.00
30	Supplying, fitting fixing CI Round Gratings 150mm dia <b>SOR, PWD, (Sanitary) P - 55, I - 18(ii)</b>	1.000	Each	100.00	100.00

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SL No.	Description of Works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	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 arrangement 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
	<b>TOTAL AMOUNT</b>		<b>Rs.</b>		<b>350000.36</b>
	Say		<b>Rs.</b>		<b>350000.00</b>
	<b>Add for Electrical Works (ANNEXURE-I)</b>		<b>Rs.</b>		<b>17858.00</b>
	<b>TOTAL AMOUNT</b>		<b>Rs.</b>		<b>367858.00</b>
	Say		<b>Rs.</b>		<b>368000.00</b>
<b>(Rupees Three lakh Sixty eight thousand only)</b>					

  
6/8/19Sub-Assistant Engineer  
Durgapur Municipal Corporation  
6/8/19Assistant Engineer  
Durgapur Municipal Corporation  
06.08.19EXECUTIVE ENGINEER  
M. E. DTE  
GOVERNMENT OF W.B.  
POSTED AT  
DURGAPUR MUNICIPAL CORPORATION

**ESTIMATE FOR ELECTRICAL WORKS FOR ONE DWELLING UNIT UNDER PMAY**

<b>ESTIMATE FOR ELECTRICAL WORKS FOR ONE DWELLING UNIT UNDER PMAY</b>					
<b>(ANNEXURE-I)</b>					
<b>Sl. No.</b>	<b>Item of works</b>	<b>Unit</b>	<b>Rate</b>	<b>Quantity</b>	<b>Amount</b>
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	Powercct 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 copper wire Finolex make & 1x1.5 sq mm single core stranded PVC insulated and unseathed copper wire (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 pin key type switch (6 Amps) ( <b>Anchor</b> 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	points	76.00	2.00	152.00

	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) <b>on existing switch board as mentioned sl. no.3</b>				
5	Supplying & drawing 1.1 KV grade single core stranded FR PVC insulated & unseathed single core stranded cu Wire 3x2.5 sq mm (finolex make) in the prelaid polythene pipe & by the prelaid GI fishwire & making necessary connection as required (CESC supply to consumer DP near to CESC & inside the room another DP near CESC & inside the room another DP of dwelling units)	RM	86.00	15.00	1290.00
<b>Sl.No.</b>	<b>Item of works</b>	<b>Unit</b>	<b>Rate</b>	<b>Quantity</b>	<b>Amount</b>
6	Supplying Delivery & instalation on wall of 30/32 amp DP MCBof Havel's make with enclosed box along with all its necessary   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 <b>3.65 m</b> below the GL & restoring surface duly rammed.	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
			<b>TOTAL</b>		<b>17858.00</b>
	<b>Rupees Thirteen Thousand Eight Hundred Seventy Eight Only</b>				<b>17858.00</b>

*Paul*  
6/8/19  
Sub-Assistant Engineer  
Durgapur Municipal Corporation

*[Signature]*  
6/8/19  
Assistant Engineer  
Durgapur Municipal Corporation

*[Signature]*  
06/08/19  
EXCISE ENGINEER  
M. E. Z. E.  
GOVERNMENT OF W.B.  
POSTED AT  
DURGAPUR MUNICIPAL CORPORATION

**Cost Estimate for 2 Nos Leach Pit for single unit Dwelling Unit**

<p align="center"><b>Cost Estimate for 2 Nos Leach Pit for single unit Dwelling Unit</b>  <b>P.W.D Schedule of Rates effect from 1st July 2014</b></p>					
<p align="center"><b>(ANNEXURE-II)</b></p>					
<b>Sl No</b>	<b>Description of Items</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>1</b>	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 excavation not existing 1500mm <b>P.No-1, I-2(a)</b>	2.500	%Cu.M	12047.00	301.18
<b>2</b>	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
<b>3</b>	Brick work with 1st class bricks in cement mortar (6 :1). a) In foundation & Plinth <b>P.no-29, I-21(a)</b>	0.010	Cu.M	5719.00	57.19
<b>4</b>	125 mm. thick brick work with 1st class bricks in cement mortar (4 : 1) G.Floor <b>P.no-31, I-29</b>	3.000	SqM	714.00	2,142.00
<b>5</b>	Controlled Cement concrete with well graded stone chips (20 - mm nominal size) excluding shuttering and reinforcement with complete design of concrete as per I : 456 and relevant special publications submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in charge Consumption of cement will not be less than 300 Kg of cement -with Super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on- the basis of preliminary test and job mix formula. -I n ground floor and foundation. [Using concrete mixture] M 20 Grade <b>P.no-12, I-6(a)</b>	0.145	Cu.M	6871.54	996.37

6	Reinforcement for reinforced concrete work in all sorts of structures incl. Distribution bars, stirrups, binder etc. incl. supply of rods, initial straightening & removal of loose rust (if necessary), cutting to requisite length, hooking etc <b>P.no-27, I-15(a)(i)</b>	0.010	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 <b>P.no-173, I-21(A)(ii)</b>	4.000	Mtr	291.00	1,164.00
	ii) UPVC Bend 87.5 degree 110 mm dia <b>P.no-174, I-21(B)C(ii)</b>	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 <b>.P.no-32, I-35</b>	2.000	SqM	792.00	1,584.00
<b>Cost of 2 no leach pit</b>					<b>7,543.97</b>
				<b>Total=</b>	<b>7,544.00</b>

*Saul*  
6/8/19  
Sub-Assistant Engineer  
Durgapur Municipal Corporation

*7/8/19*  
6/8/19  
Assistant Engineer  
Durgapur Municipal Corporation

*7/8/19*  
06/08/19  
ENGINEER  
M. E. DTE  
GOVERNMENT OF W.B.  
POSTED AT  
DURGAPUR MUNICIPAL CORPORATION



**Table-36: Detailed Estimate for Single Dwelling unit**

Detailed Estimate for Single Dwelling unit Floor area 25.36 sqm Built up area 32.18 sqm							
	C/L of main outer wall				125 mm Partitionwall		Varandah C/L
		4.65			3.375		1.275
		0.8			1.15		0.9
		1.15			1.15	2.3	2.175
		3.45			2.187		
		1.15			1.9		
		1.7			1.387	5.474	
		3.375			11.149		
		1.275					
		2.825					
		3.125					
		23.5					
	X wall	1.25					
Sl.no.							
1	Earth workin excavation						
	250 mm wall						
	1	23.5	0.75	0.7	12.34		
		0.875	0.75	0.7	0.46		
		24.375			12.8	m3	
	125 mm Wall						
		2.625	0.4	0.225	0.24		
	WC	0.4	0.4	0.225	0.04		
	Bath	0.65	0.4	0.225	0.06		
	5.474	0.75		0.225			
		4.724	0.4	0.225	0.43		
	Varanda	1.425	0.4	0.225	0.13		
					0.88		
	Step	0.5	0.9	0.075	0.034		
					13.715	m3	
2	Soling						
		24.375	0.75		18.281		
		11.45	0.4		4.58		
					22.861		
3	Polythene sheet						
		2.575	3.125		8.047		
		2.875	2.625		7.547		
		2	1.65		3.3		

**Detailed Estimate for Single Dwelling unit**  
**Floor area 25.36 sqm Built up area 32.18 sqm**

	C/L of main outer wall				125 mm Partitionwall			Varandah C/L	
	passage	0.625	2.375		1.484				
	Bath&WC	2.7	0.9		2.43				
	Varndah	1.025	0.6		0.615				
	step	0.9	0.5		0.45				
					23.873				
4	Jhama concrete								
			18.28	0.075	1.371				
			4.58	0.075	0.344				
			23.93	0.075	1.795				
					3.51				
5	Earth work in filling 1/5 excavation								
			13.715	5	2.743				
			23.48	0.375	8.805				
					11.548	m3			
6	B.W (6:1) in Foundation of plinth								
		23.5	0.625	14.6875					
		23.5	0.5	11.75					
		23.5	0.375	8.8125					
				35.25	0.15	5.288			
		23.5	0.25		0.525	3.084			
	X wall	0.938	0.625	0.586					
		1	0.5	0.5					
		1.063	0.375	0.399					
				1.485	0.15	0.223			
		1.125	0.25		0.525	0.148			
	125mm	3.125	0.25		0.525	0.41			
	Bath&WC	2	0.9	0.25	0.523	0.235			
	Kit	5.224	0.25		0.525	0.686			
	Vard	1.925	0.25		0.525	0.253			
	Steps	0.5	0.9		0.15	0.068			
		0.25	0.9		0.15	0.034			
						10.427	m3		
7	DPC	23.5							

Detailed Estimate for Single Dwelling unit									
Floor area 25.36 sqm Built up area 32.18 sqm									
	C/L of main outer wall				125 mm Partitionwall			Varandah C/L	
		1.125							
		24.625		0.25		6.156			
		3.125							
		1.8							
		5.224							
		10.149		0.125		1.269			
						7.425			
	Less	0.9		0.25	0.225				
		0.9		0.125	0.113				
	3	0.75		0.125	0.281				
						0.619			
						6.806	sqm		
8	BW in super structure (6:1)								
		23.5							
		1.125							
		24.625	2.75	0.25	16.93				
	Parapet	23.8	0.075	0.25	0.446				
						17.376			
	Less opens								
	1	0.9	2.1	1.89					
	4	0.9	0.9	3.24					
	1	0.75	0.9	0.675					
	3	0.75	0.75	1.688					
				7.493	0.25	1.873			
	Lintel								
	1	1.525	1.525						
	4	1.2	4.8						
	1	1.05	1.05						
			7.375	0.25	0.1	0.184			
	Wo2								
	1	3.05	3.05	0.25	0.1	0.076			
					(-)	2.134			
	Net brick work						15.242	m3	
9	125 th. Brick work (6:1)								

**Detailed Estimate for Single Dwelling unit**  
**Floor area 25.36 sqm Built up area 32.18 sqm**

C/L of main outer wall				125 mm Partitionwall		Varandah C/L
room		3.125	2.6	8.125		
kit		2.125	2.75	5.844		
		1.65	2.75	4.5375		
		1.45	2.65	3.8425		
	2	0.9	2.1	3.78		
					26.12875	
Less opening						
	1 0.9	0.9				
	3 0.75	2.25				
		3.15	2.1	6.615		
Lintel						
	1 1.3	1.3				
	1 1.025	1.025				
		2.325	0.1	0.2325		
				6.8475		
					19.28125	
Parapet						
	23.5		0.15		3.525	
					22.806	
passeege	0.75		0.55		0.4125	
					23.219	sqm
10	Conc M-20					
	Roof slab					
	32.15	1.1475	31.003	0.1	3.1	
	Beam		3.625	0.25	0.15	0.136
			2.575	0.25	0.1	0.064
	Lintel					3.301
	D1	1	1.525	1.525		
	W1	4	1.2	4.8		
	W2	1	1.05	1.05		
	WO2	1	3.05	3.05		
				10.425	0.25	0.1
	D1	1	1.39	1.39		
	D2	1	1.025	1.025		
	D2	2	1.4	2.8		
	O2	1	0.875	0.875		

**Detailed Estimate for Single Dwelling unit**  
**Floor area 25.36 sqm Built up area 32.18 sqm**

C/L of main outer wall				125 mm Partitionwall		Varandah C/L	
D2	2		6.09	0.125	0.1	0.076	
Chaja							
W1	4	1.2	4.8				
W2	1	1.03	1.03				
D1	1	1.275	1.275				
W02	1	3.05	3.05				
			10.155	0.3	0.075	0.228	
						3.866	m3
11	Reinforcement						
		3.866	0.80%	1	7850	0.243	MT
12	Shuttering						
31	23.5	1.125					
		24.63	0.25				
31			6.156	24.844			
Side beam	2	3.125	0.15	0.9375			
	2	2.325	0.1	0.465			
side slab	1	25.3	0.1	2.53			
Lintel	1	0.9	0.25	0.225			
	1	1.525	0.1	0.153			
	1	1.275	0.35	0.446			
	1	0.3	0.05	0.015			
					29.615	sqm	
4W1	4	0.9	0.25	0.9			
	4	1.2	0.1	0.48			
	4	1.2	0.35	1.68			
	2	4	0.3	0.05	0.12		
1W2	1	0.75	0.25	0.188			
	1	1.05	0.1	0.105			
	1	1.05	0.35	0.368			
	2	1	0.3	0.05	0.03		
WO2	3	0.75	0.25	0.563			
	1	1	3.05	0.1	0.305		
	1	1	3.05	0.35	1.068		
	2	1	0.3	0.05	0.03		

Detailed Estimate for Single Dwelling unit Floor area 25.36 sqm Built up area 32.18 sqm							
	C/L of main outer wall				125 mm Partitionwall		Varandah C/L
	Lintel 125 Wall						
	D1	1	0.9	0.125	0.113		
		2	1.3	0.1	0.26		
	D2	2	0.75	0.125	0.188		
	2	2	1.15	0.1	0.46		
	D2	2	0.75	0.125	0.188		
		2	1.9	0.1	0.38		
					7.423		
					<b>37.038</b>	sqm	
13	Plaster (6:1)						
	Out side 15 mmth.						
			2.85	1.125	0.45		
		25.3			4.425	111.953	sqm
	Inside 20 mm th.						
	2	2.7	3.125	2.75	32.038		
	2	2.875	2.625	2.75	30.25		
	2	2	1.65	2.75	20.075		
	2	2.075		2.75	11.413		
	Above lintel						
	1	0.75		0.65	0.488		
	Bath						
	2	0.9		2.75	4.95		
	WC						
	1	2.95		2.75	8.113		
	1	2.25		2.75	6.188		
	4	2.2		0.9	7.92		
	T. 125 wall						
	2	0.9		0.125	0.225		
						121.658	
	Open out side less						
	3	0.75		2.1	4.725		
					(-)	4.725	
						116.933	sqm
	Celling Plaster				24.47		
	Less				1.14		
						23.33	Sqm

Detailed Estimate for Single Dwelling unit Floor area 25.36 sqm Built up area 32.18 sqm									
	C/L of main outer wall				125 mm Partitionwall			Varandah C/L	
14	Neat cement punning								
	Out side	Plinth							
		25.3	0.45			11.385	Sqm	11.385	
	Inside		2.7	3.125					
		2		5.825	0.1	1.165	Sqm		
			2.875	2.625					
		2		5.5	0.1	1.1	Sqm		
	Kithen		2	1.65					
		2		3.65	0.45	3.285	Sqm		
		1		1.65	0.45	0.743	Sqm		
		2		2.075	0.1	0.415	Sqm		
	Varanda			1.775	0.1	0.178	Sqm		
	step WC	1		3	0.45	1.35	Sqm		
	Bath			3.5	2	7	Sqm		
				0.75	0.1	0.075	Sqm		
	In side punning						15.31	15.31	
	Total							26.695	Sqm
15	Art. Stone flooring								
	Floor area					25.37	sqm		
	Step	2	0.9	0.25		0.45			
	W1	4	0.9	0.1		0.36			
	W2	1	0.75	0.1		0.075			
	W3	3	0.75	0.1		0.225			
							26.48	Sqm	
16	Ms Clamp for door & window								
	D1+D2	4	6			24			
	W1+W2	5	2			10			
							34	nos.	
17	Wood work in Door & window frame								
	D1	2	5.1	10.2					
	D2	2	4.95	9.9					
	W1	4	3.6	14.4					
	W2	1	3.3	3.3					
				37.8	0.075	0.075	0.213	m3	

Detailed Estimate for Single Dwelling unit Floor area 25.36 sqm Built up area 32.18 sqm							
	C/L of main outer wall			125 mm Partitionwall			Varandah C/L
18	Z batten shutter						
	D1	2	0.775	2.025		3.139	
	D2	2	0.625	2.025		2.531	
	W1	4	0.775	0.775		2.403	
	W2	1	0.775	0.625		0.484	
						8.557	sqm
19	Iron Butt Hinges						
	D1+D2					12	
	W1	4		4		16	
	W2	1		4		4	
						32	nos.
20	Iron soket bolt						
	Door			6			
	Window			5			
						11	nos.
21	White wash						
	Inside+Celling Plaster- inside punning						
			116.933	23.33	15.31	124.953	sqm
22	Colour wash						
	Out side Plaster- out side punning						
			111.953	11.385		100.568	sqm
23	Priming on timber sutrface						
		2	0.9	2.1		7.56	
		2	0.75	2.1		6.3	
		4	0.9	0.9		6.48	
		1	0.75	0.9		1.35	
						21.69	sqm
24	Painting best quality on wooden surface						
	same sl.no. 23					21.69	sqm
25	MS ornamental gril....10Kg-16 Kg						
	W1	4	0.75	0.75	2.25		



Detailed Estimate for Single Dwelling unit Floor area 25.36 sqm Built up area 32.18 sqm									
	C/L of main outer wall				125 mm Partitionwall			Varandah C/L	
	W2	1	0.75	0.6	0.45				
					2.7				
					@12Kg/sqm		32.4	Kg	
26	Priming on Steel surface						2.7	sqm	
27	Painting best quality on steel surface same sl.no. 24						2.7	sqm	
28	R.C.C. Shelf								
		1.75	0.5				0.875	sqm	
29	Roof treatment with cow dang								
							32.18		
	Deduct	1.14	(varanda)	1.14					
	Cornice	25	0.125	3.125					
				27.915			27.915	sqm	

**2.1.2. Detailed Estimate of adoption of technology for Concrete Drain:**

**Detailed Estimate of adoption of technology for Concrete Drain**

NAME OF WORK :		Construction of RCC Drain Under D.M.C. area Length= 10.0M				
This estimate based on PWD SOR Vol-I w. e. f. 1.12.2015 & 3rd CORRIGENDA & ADDENDA wef 04.06.2018						
Sl. No.	page & items no.	Description of items	Qty.	Unit	Rate	Amount in Rs.
1	It-2(a), P-1	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the 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.	39.00	Cu m.	119.27	4651.53
2	P It-4(A), -2	Filling in foundation or plinth by silver sand in layers not exiding 150mm and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand.	2.00	Cu m.	521.07	1042.14
3	It-1, P-14	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with powdered earth or local sand.	20.00	Sq m	324.00	6480.00

4	It-22 (I, A, a), P -34	I) Cement concrete with graded stone ballast (40 mm size excluding shuttering) In ground floor (A) [Pakur Variety] (a) 1:3:6 proportion	1.50	Cu m	4,830.00	7245.00
5	It - 10 (i), P - 26 (Analysis)	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. (i) Pakur Variety	9.25	Cu m.	5356.08	49543.74
6	It - 40(a,I,II), P - 43 & 44 analysis	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 16 gauge black annealed wire at every intersection, complete as per drawing and direction. (a) For works in foundation, basement and upto roof of ground floor/upto 4 m (i) Tor steel/Mild Steel II. Other than SAIL/TATA/RINL/JSWL/JSPL	0.779	M.T.	67006.15	52197.79

7	It - 36, P - 42	Hire & labour charges for Shuttering with centering and necessary staging upto 4m using approved stout props and 25mm to 30mm thick hard wood planks with required bracing for concrete slabs, beams, column, lintels curved or straight including fitting, fixing and striking off after completion of work. (upto roof of ground floor). (c) Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work	66.55	Sq m	363.00	24157.65	
						145317.85	
						Add CGST(6%)	8719.07
						Add SGST(6%)	8719.07
						Cost exc. cess	162755.99
						Add 1% labour cess	1627.56
						Total	164383.55
						<b>SAY,</b>	<b>RS. 1,64,384.00</b>

**(RUPEES ONE LAKH SIXTY FOUR THOUSAND THREE HUNDRED AND EIGHTY FOUR ONLY)**

*Saul*  
6/8/19

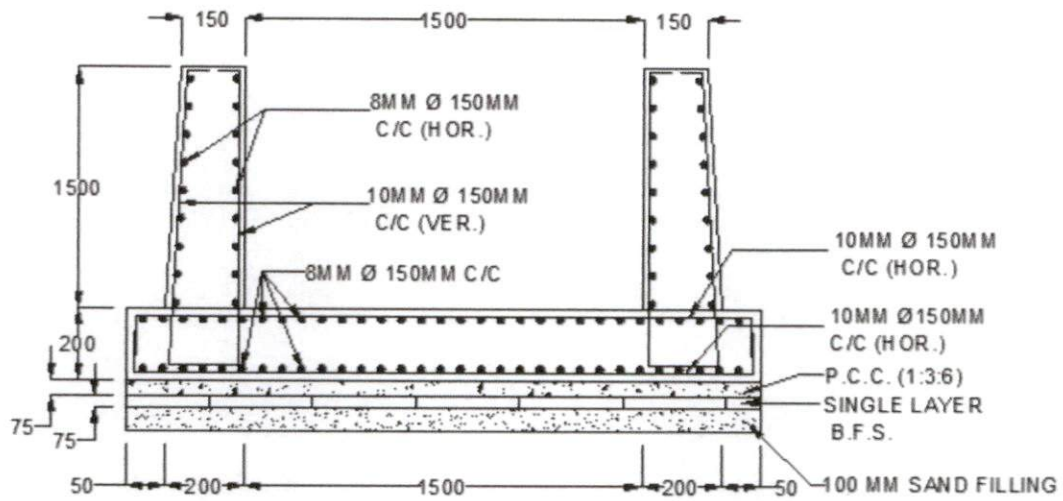
Sub-Assistant Engineer  
Durgapur Municipal Corporation

*Ind*  
6/8/19

Assistant Engineer  
Durgapur Municipal Corporation

*Biswas*  
06/08/19

ENGINEER  
M.E DTE  
GOVERNMENT OF W.B.  
POSTED AT  
DURGAPUR MUNICIPAL CORPORATION



LENGTH = 10.0 M

### CALCULATION SHEET FOR 10.0 M RCC DRAIN

Item No	Description	No	Length	Width	Height	Unit	Quantity	Total Quantity
1	Eart Work	1	10.00	2.00	1.95	Cum	39.00	39.00
2	Sand Filling	1	10.00	2.00	0.10	Cum	2.00	2.00
3	BFS	1	10.00	2.00		Sqm	20.00	20.00
4	PCC (1:3:6)	1	10.00	2.00	0.075	Cum	1.50	1.50
5	RCC (1:1.5:3)	1	10.00	2.00	0.20		4.00	9.25
		2	10.00	0.175	1.50		5.25	
6	Reinforcement	68	4.25	0.617	Kg/m	MT	0.178	0.779
		28	10.20	0.395	Kg/m	MT	0.113	
		272	1.88	0.617	Kg/m	MT	0.316	
		44	9.90	0.395	Kg/m	MT	0.172	
7	Shuttering	2	10.00		0.275	Sqm	5.50	66.55
		4	10.00		1.50	Sqm	60.00	
		4	0.175		1.50	Sqm	1.05	

*Saul*  
6/8/19

Sub-Assistant Engineer  
Durgapur Municipal Corporation

*7 ind*  
6/8/19

Assistant Engineer  
Durgapur Municipal Corporation

*Bilw*  
06.08/19

EXECUTIVE ENGINEER  
M. E. DTE  
GOVERNMENT OF W.B.  
POSTED AT  
DURGAPUR MUNICIPAL CORPORATION

**NAME OF WORK :****Construction of Brick Drain Under D.M.C. area  
Length = 10.0M**

This estimate based on PWD SOR Vol-I w. e. f. 1.12.2015 &amp; 3rd CORRIGENDA &amp; ADDENDA wef 04.06.2018

Sl. No.	page & items no.	Description of items	Qty.	Unit	Rate	Amount in Rs.
1	It -2(a), P -1	Earth work in excavation of foundation trenches or drain or septic tank etc. in all shorts of soil including removing spreading or stacking the spoils within a lead of 75m as directed and including trimming the sides of the trenches, levelling dressing and ramming and the bottom bailing or pumping out water etc.as required complete.	6.53	Cu m.	119.27	778.83
2	It -4(A), P -2	Filling in foundation or plinth by silver sand in layers not exiding 150mm and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand.	0.68	Cu m.	521.07	354.33
3	It -1, P -14	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with powdered earth or local sand.	9.00	Sq m	324.00	2916.00
4	It-22 (I, A, a), P -34	I) Cement concrete with graded stone ballast (40 mm size excluding shuttering) In ground floor (A) [Pakur Variety] (a) 1:3:6 proportion	0.68	Cu m	4,830.00	3284.40
5	It -8 (a), P -15	Brick work with 1st class bricks in cement mortar (1:6) (a) In foundation and plinth	2.50	Cu m.	4812.00	12030.00

6	It- 1(i, c), P- 189	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface] (i) With 1:6 cement mortar (c) 15 mm thick plaster	19.00	Sq m	136.00	2584.00
7	It- 15, P - 192	Neat cement punning about 1.5 mm thick in wall, dado, window sills, floor, drain etc. using cement 0.152 cu m per 100 sq m.	19.00	Sq m	34.00	646.00

22593.56

Add CGST(6%) 1355.61  
Add SGST(6%) 1355.61  
Cost exc. cess 25304.79  
Add 1% labour cess 253.05  
Total 25557.84

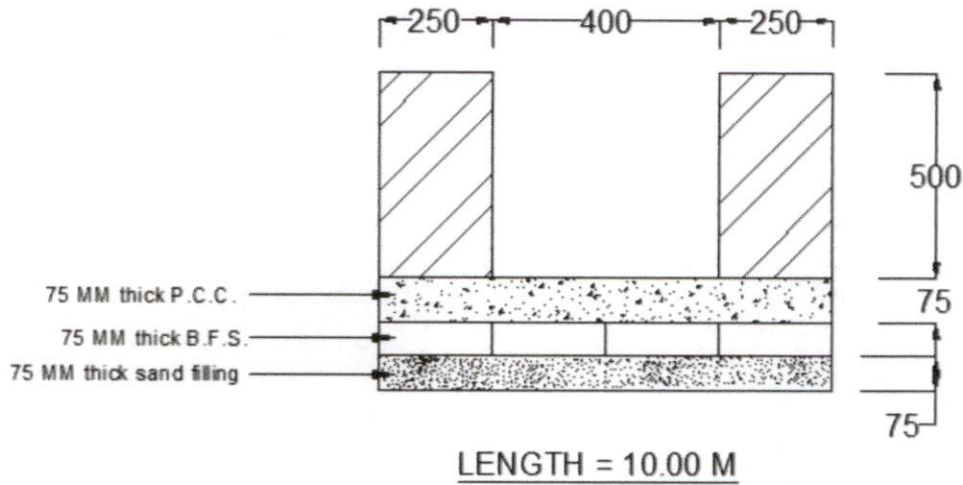
**SAY, RS. 25,558.00**

**(RUPEES TWENTY FIVE THOUSAND FIVE HUNDRED AND FIFTY EIGHT ONLY)**

*Kaul*  
6/8/19  
Sub-Assistant Engineer  
Durgapur Municipal Corporation

*[Signature]*  
6/8/19  
Assistant Engineer  
Durgapur Municipal Corporation

*[Signature]*  
06.08.19  
EXECUTIVE ENGINEER  
M.C.C. D.T.E.  
GOVERNMENT OF W.B.  
POSTED AT  
DURGAPUR MUNICIPAL CORPORATION



**CALCUTION FOR 10.0 M BRICK DRAIN**

C/S Details	Length =	10.00	Metre				
	Width =	0.40	Metre		B/W =	0.25	Metre
	Depth =	0.50	Metre			0.25	Metre
	sand =	0.075	Metre		BFS =	0.075	Metre
					PCC =	0.075	Metre
Sl. No.	Description	Nos	Len(M)	Brd(M)	Ht(M)	Unit	Qty
(a)	Earth Work	1	10.00	0.90	0.725	cum	6.53
(b)	Sand Filling	1	10.00	0.90	0.075	cum	0.68
(c)	Single BFS	1	10.00	0.90		Sqm	9.00
(d)	PCC	1	10.00	0.90	0.075	cum	0.68
(e)	B/W	2	10.00	0.25	0.50	cum	2.50
(f)	Plaster	1	10.00	1.90		Sqm	19.00
(g)	NCP	1	10.00	1.90		Sqm	19.00

*Paul*  
6/8/19

Sub-Station  
Durgapur Municipal Corporation

*[Signature]*  
6/8/19

Assistant Engineer  
Durgapur Municipal Corporation

*[Signature]*  
06.08.19

EXECUTIVE ENGINEER  
M. E. DTE  
GOVERNMENT OF W.B.

POSTED AT  
DURGAPUR MUNICIPAL CORPORATION



**NAME OF WORK :****Construction of Concrete Road Under D.M.C. area Length = 10.0M**

This estimate based on PWD SOR Vol-I w. e. f. 1.12.2015 &amp; 3rd CORRIGENDA &amp; ADDENDA wef 04.06.2018

Sl. No.	page & items no.	Description of items	Qty.	Unit	Rate	Amount in Rs.
1	It-3.16, P - 237	Box cutting or filling in Road embankment in all sorts of soil including spreading the spoils properly over the flank as necessary or on berm to approximate grade & camber and rolling the sub-grade with power roller to proper camber and grade as per direction and satisfaction of Engineer-in-charge including uprooting and removing plants and jungles when and where necessary. a) Depth up to 150 mm.	30.00	Sq.m	14.40	432.00
2	It - 1, P - 14	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with powdered earth or local sand.	30.00	Sq m	324.00	9720.00
3	It - 10 (i), P - 26 (Analysis)	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. (i) Pakur Variety	4.50	Cu m.	5356.08	24102.36

4

It - 36,  
P - 42

Hire & labour charges for Shuttering with centering and necessary staging upto 4m using approved stout props and 25mm to 30mm thick hard wood planks with required bracing for concreteslabs,beams,column,lintels curved or straight including fitting, fixing and striking off after completion of work. (upto roof of ground floor).  
(f) 25 mm to 30 mm shuttering without staging in foundation.

3.00

Sq m

205.00

615.00

34869.36

Add CGST(6%)

2092.16

Add SGST(6%)

2092.16

Cost exc. cess

39053.68

Add 1% labour  
cess

390.54

Total

39444.22

SAY,

RS.

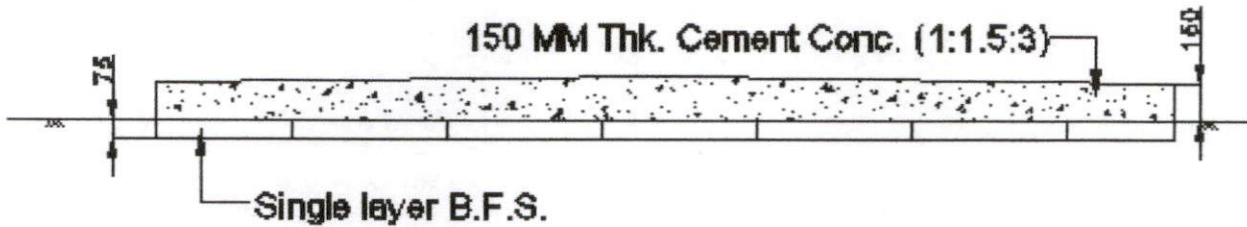
39,444.00

(RUPEES THIRTY NINE THOUSAND FOUR HUNDRED FORTY FOUR ONLY)

*Saul*  
6/8/19  
Sub-Assistant Engineer  
Durgapur Municipal Corporation

*7 inil*  
6/8/19  
Assistant Engineer  
Durgapur Municipal Corporation

*Bisw*  
06.08.19  
EXECUTIVE ENGINEER  
M. E. DTE  
GOVERNMENT OF W.B.  
POSTED AT  
DURGAPUR MUNICIPAL CORPORATION



Cross section drawing of cement concrete road.

Length = 10.0M Width = 3.0M

CALCULATION FOR 10.0 M CONCRETE ROADS							
Sl. No.	Description	Nos	Len(M)	Brd(M)	Ht(M)	Unit	Qty
(a)	Box cutting	1	10.00	3.00		Sqm	30.00
(b)	Single BFS	1	10.00	3.00		Sqm	30.00
(c)	Cement Concrete(1:1.5:3)	1	10.00	3.00	0.150	cum	4.50
(d)	Shuttering	2	10.00		0.150	Sqm	3.00

*Saw*  
6/8/19  
Sub-Assistant Engineer  
Durgapur Municipal Corporation

*[Signature]*  
6/8/19  
Assistant Engineer  
Durgapur Municipal Corporation

*[Signature]*  
06.08.19  
EXECUTIVE ENGINEER  
M. E. DTE  
GOVERNMENT OF W.B.  
POSTED AT  
DURGAPUR MUNICIPAL CORPORATION