



CITY DISASTER MANAGEMENT PLAN OF KOLKATA

2020



**KOLKATA MUNICIPAL CORPORATION
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Foreword

Cities are important centres of modern societies that will continue to gain in importance in the future. Today, more than half the world's population lives in urban areas. The high density and interdependence of urban lifestyles and work, and the growing dependence on increasingly complex infrastructure systems and services, are making cities more vulnerable to a variety of hazards — natural and man-made. These can be the result of technological, natural or social causes.

The populous City of Kolkata is situated in the multi-hazard prone southern part of the state of West Bengal which has considerable risk of damage/loss of lives and property due to natural hazards like Cyclone, Earthquake and Flood even if we keep aside the threats due to human induced hazards as Fire, Accidents, Industrial & Chemical hazards etc. To minimize the losses due to disasters and to have a disaster resilient society, *we must have clear understanding in regard to the type and strength of each of the probable threats* which may cause disasters of medium or large scale in the city.

The perception about disaster and its management has undergone a change following the enactment of the Disaster Management Act, 2005. The definition of disaster is now all encompassing that includes not only the events emerging from natural and man-made causes, but even those events which are caused by accident or negligence. There was a long felt need to capture information about all such events occurring across the sectors and efforts made to mitigate them in the city and to collate them at one place in a global perspective. This DM plan of Kolkata consists of 11 chapters has been an effort towards realising this thought. This book in the present format is the outcome of the in-house compilation and analysis of information relating to disasters and their management gathered from different sources. The CDMP of Kolkata has been prepared following the Model framework for District Disaster Management Plan by NDMA, 2014. This book is a compilation of information of past hazards, preparedness and mitigation measures, reconstruction and rehabilitation process and also the SOPs and resource inventories of different departments.

It is our sincere hope that this work — the first among the many more that are on the anvil — will give all the stakeholders a sense of the urgent need to be prepared, not just for the present, but the future as well. It will be our unbound pleasure, if this publication invites constructive criticism, suggestions, additional inputs, and new perspectives — not just from the technocrats, academia, social sector, and inter-disciplinary thinkers but citizens, as well — to pave the way for a climate resilient, robust, inclusive, and secure future.

Firhad Hakim
Mayor, Kolkata

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1. INTRODUCTION

1.1 GENERAL INTRODUCTION TO DISASTERS IN INDIA

Before we go into the details, let us have a look into the following definitions.

- **HAZARD:** a potentially damaging physical event, natural phenomenon or human activity that may adversely affect human life, property or cause social and economic disruption or environmental damage.
- **DISASTER:** an extreme disruption of the functioning of community/society that causes wide spread human, material, economic or environmental losses which exceed the ability of the affected community to cope.
- **VULNERABILITY:** the conditions determined by physical, social, economic and environmental factors which increase the damageability or proneness of an individual or community/society to impact of hazards.
- **RISK:** probability of harmful consequences or expected/anticipated losses from impact of a hazard at a given place over a specific period of time.
- **CAPACITY:** combination of strength, efficacy and resources available within a community/ organization that can be harnessed to reduce the level of risk or the effect of a disaster – viz. the ability of the stakeholders to cope with/resist/respond to the effects of a hazard or a catastrophic event.

Human vulnerability to disasters is inversely related to human capacity to withstand the effects of disasters. The relationship among them can be expressed as –

$$\text{Disaster Risk} = \frac{\text{Hazard} + \text{Vulnerability} + \text{Exposure}}{\text{Capacity}}$$

- **DISASTER RISK MANAGEMENT:** A systematic process of using administrative decisions, organizations, operational capacities to implement policies, strategies, coping capacities to lessen impacts of hazards – it comprises of prevention (structural and non-structural measures), mitigation (to limit the risk/vulnerability) and preparedness.
- **DISASTER RISK REDUCTION:** A conceptual framework of elements to minimize

disaster risks throughout a society to avoid (prevent) or to limit (mitigate and prepare for) adverse impacts of hazards with the aim of integrated sustainable development.

Natural disasters are not bound by political boundaries and affect all – particularly the vulnerable people much more.

The Indian sub-continent is highly prone to natural disasters. Floods, Wind, Cyclones, Droughts, Landslides and Earthquakes are recurrent phenomena. As per the latest damage risk zoning map of Bureau of Indian Standards (BIS) over 60% area of India is prone to earthquake, 8% prone to flood, about 68% area of the country is susceptible to drought and 8000 Km long coastal belt is prone to extensive damage by high wind and cyclone,. Some of the most intense earthquakes have occurred in India and its adjacent areas in the past and she has seen devastating floods and cyclones in last few decades. Human induced disasters caused mainly due to rapid unplanned urbanization and industrialization is comparatively recent experiences in India which have already posed as growing threats for the nation. A total of 31 types of disasters have been identified in this country. The following map (Fig1.1) shows multi hazard areas for different sets of major natural disasters.

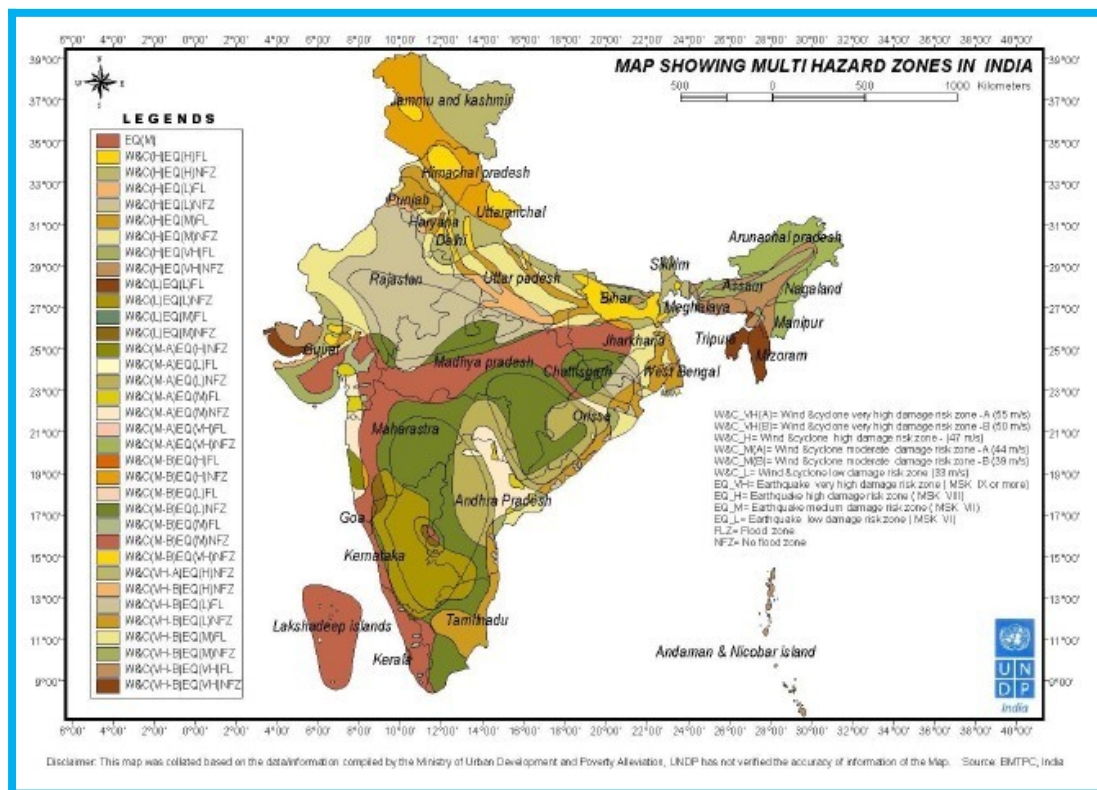


Fig.1.1 Multi hazard Zones in India

Disasters lead to erosion of development gains and restricted options for the affected people. Physical safety - especially that of the vulnerable groups, which include children, old and

physically handicapped people, is threatened. Alike similar experiences in other parts of the world, Orissa Super Cyclone of 1999, Gujarat earthquake of 2001, Tsunami of 2004, Kashmir Earthquake of 2005, Uttarakhand Flash Flood 2013 and Nepal Earthquake of 2015 have very clearly illustrated that we need pre- disaster mitigation, preparedness and response systems at all levels so that the threat to human lives and property is minimized.

1.2 Objectives of preparation of city disaster management plan for Kolkata

- To have a document that gives a comprehensive idea about the city of Kolkata in the context of disaster management.
- To have a concise document for all stake holders (Government, KMC, other services providers, NGOs ,CBOs, common people) to know the vulnerabilities and risks of Kolkata city to different major disasters.
- To develop a multi-hazard ready reckoner for all the stake holders containing the roles and responsibilities, contact details and the pre-determined plan of actions (Standard Operating Procedures) for Disaster Management of Kolkata city with intra and inter-organizational well coordinated effort.
- To prepare a document for various stakeholders in disaster management for assessing their needs for training and capacity building.
- To help all in a paradigm shift from relief centric to integrated pre-during-post disaster management approach.
- To help all stakeholders in prioritising and planning their activities (e.g. developing new policies and legislations, organizational/institutional strengthening, undertaking research, developing realistic plans for pre-disaster prevention and mitigation activities, establishing committees and networks, strengthening early warning and information dissemination systems, preparing for response during disaster and post-disaster activities.
- Mainstreaming disaster management into all developmental activities to make them sustainable.
- Mainstreaming gender equity in disaster management and development.
- Initiating public-private partnership in disaster management

1.3 Authority for DDMP

As per section 31 of the Disaster Management Act, 2005 (DM Act), District Disaster Management Authority (DDMA) of any District in the state shall prepare District Disaster Management Plan (DDMP) which is to be approved by state Disaster Management Authority (SDMA). For Kolkata district Kolkata Municipal Corporation prepare and update DDMP after conducting a DDMA Meeting every year.

1.4 Evolution of DDMP in brief

The DDMP of Kolkata has been prepared following the **Model framework for District Disaster Management Plan** by NDMA, 2014. After compilation of the secondary data and information received from different line department the DDMP has been prepared. Especially for the HVCRA chapter information and map has been taken from different published report of Govt. of India and Govt. of West Bengal and as well as from internet.

1.5 Stakeholders and their responsibilities

1.5.1 Kolkata Municipal Corporation

- Functioning of the Control Rooms
- Closure of past breaches in river and canal embankments and guarding of weak points proper operation of gate and valves
- Rain recording and submission of rainfall reports
- Dissemination of weather reports and flood bulletins issued by the meteorological Centres, Central Water Commission, Flood Forecasting Organization;
- Arrangement for keeping telephone and telegraph lines in order and establish alternate communication links to have effective communicating with water logging area during monsoon.
- Organization of relief parties, Alternative drinking water supply arrangements; Alternative SWF pumping arrangement arrangements, Alternative Solid Waste Management Arrangements, Alternative lighting arrangements
- Use additional pumping system for reducing water logging time
- Organizing rescue operations
- Assisting for organize relief camps
- Provision of basic amenities like drinking water, sanitation and public health care and street light etc. in the water logging area.
- Assisting to organizing relief parties to the rescue of the marooned people within a reasonable time limit
- Submission of daily reports and disseminates correct information through mass media to avoid rumors.
- Repairs and reconstructions of infrastructural facilities such as roads, health measures.

- Assisting the appropriate organization for house collapse, fire hazards, uprooting of tree etc. during rainy season.
- Sending requirement for ex-gratia grant to Department of Disaster management and Civil Defence and distribution of fund to the affected family.

Important Activities of KMC in connection with the Disaster Management (Flood/Cyclone)

Name of the Department	Major activities
Parks & Squares	Removal of falling and uprooted trees from the roadside
Lighting & Electricity	Operation of Drainage pumping station, Removal of uprooted lamppost and traction, providing emergency light, disconnection of electricity from the lamppost at the water logging pockets during heavy shower.
S.W.M.	Cleaning of gully pit mouth, removal of garbage and providing support for removal of debris from the collapsed building etc.
Drainage	Deployment of portable pumps at water logging pockets, deployment of mazdoor at water logging pockets, deployment of men and machines for removal of chock age etc.
Civil	Deployment of mazdoors at water logging pockets, deployment of portable pumps at water logging pockets, repairing of road and footpath etc. etc.
Building	Demolition of insecure building and negotiation of collapse
Health	Emergency Services, disinfection and supply of medicine
Water Supply	Supply of drinking water, disinfection of tube wells and stand posts
Secretary	Supply of relief materials, distribution of Exgratia Grant etc

1.5.2 Kolkata Police (DMG):

DMG,KP primarily is an operational wing usually functions under IRS mechanism which reduces adhocism and incorporates all the tasks that may need to be performed during the response having proper unity of command with proper flexibility and multitasking ability. When situation demands, task force, strike teams are formed with able leader at the head of the responding group. Priority is given for the **extrication of trapped victim/** about to be drowned victim from danger zone. DMG Kolkata Police was raised in 2002 for disaster risk reduction process. This small but potent unit of Kolkata Police is required to respond in short period of time to mitigate the impact of various kind of disaster within the city of Kolkata and adjoining areas.

EMPLOYABILITY

CSSR

Collapsed structure evacuation

Road Traffic Accident

Fire Evacuation

Removal of trees

IPL/ISL Matches

NOTE – At times work in tandem.

WATER

Drowning incidents

Immersion duty during various pujas

VIP escort in river

Recovery of equipments

Water logging

1.5.3 Kolkata Traffic Police

- To ensure smooth flow of traffic in Kolkata
- **Emergency Traffic Plan**: Being familiar with the local terrain, Traffic Police prepare emergency traffic plan including detail mapping with focus on strategic points, which may be used at the time of incident for safe transporting of personnel, resources and relief goods to and from the affected area and help in identifying buildings and campus which are easy to access and could be used as relief centers / relief camps and godown for storage of food grains and other rescue and relief materials.
- **Green Corridor**: One of the biggest achievements of Kolkata Traffic Police is creating Green Corridor. After receiving information about any disaster, Kolkata traffic police cordon the place of occurrence and start diversion to maintain the flow of traffic. After receiving Health department's request Kolkata Traffic Police chalks out green corridor stretch to facilitate the transplantation of organ from one hospital to another for transplantation. Kolkata witnessed the creation of a green corridor for around 13-km stretch to facilitate the transplantation of kidneys and liver of a brain-dead female.
- **Fatal Squad & Traffic Guard**: The Fatal Squad of Kolkata Traffic Police investigates cases of serious street accidents involving deaths. Road safety programmes are also organized by the Traffic Department. The Traffic Training School imparts training to the traffic police personnel regarding traffic control and regulation and traffic signalling.
 - a) On receiving information of RTA accident, officer and men of Fatal Squad or Non-Fatal officers of different Traffic Guards rush to the place of occurrence for investigation as well as to ascertain the cause of such accident. If the causes of such accidents are linked with any fault or defects of road engineering or traffic management system, FS&TG instantly conveys causes of such road accident to the concerned Traffic Guards for taking initiatives against such accidents. The concerned Traffic Guards accordingly follow our suggestions to do the same.
 - b) Accused drivers relating to RTA cases are being put up before DC TP on regular basis and DC TP by virtue of powers vested in him u/s-Rule 3 of WBMVR & Sec 19 (1) (F) of MV Act 1988 revokes / suspends the Driving License of the accused drivers, and moreover, the accused drivers are subjected to mandatory Driving training under proper guidelines of DC TP.
- c) Owners of the offending vehicles are also prosecuted for violation of Motor Vehicles Act / Rules in RTA cases.

1.5.4 Fire and Emergency Services Department

- West Bengal Fire & Emergency Services plays an important role in the area of fire fighting, extinction and rescue of lives and saving properties worth hundreds of crores of Rupees in every year from the ravages of fire. This department is also responsible for rescue operation during any types of disaster like house collapse, accidents, cyclones, floods, and other natural & man made disaster.
- Besides above this department has a statutory, regulatory and advisory function also. Advisory functions relate to educating society & community on fire protection measures thereby helping them to implement the fire safety measures. The statutory function is to ensure that business houses, commercial & industrial establishments, Hospital and Nursing Home Authorities, Educational Institutions, Market Complexes and other establishments related to any high risk buildings should take necessary fire safety measures in conforming to the regulations prescribed under West Bengal Fire Service Act. and other relevant Acts and Rules
- Fire Prevention and Fire Protection is an elementary function of this department. Fire license and Fire Prevention Wing have been established in West Bengal Fire & Emergency Services to undertake the fire prevention and protection work. Fire License wing is responsible for issuing the license for running the business/trade/factories etc. with hazardous/combustible materials. Similarly fire prevention wing is responsible for issuing N.O.C. to high rise and high risk buildings including multiplex and commercial complexes, hospitals, nursing homes, hotels, guest houses and marriage hall/community hall etc.
- This department has also a statutory role in inspection of various buildings, pendals/temporary structures as prescribed under West Bengal Fire Service Act.
- This department also provide training to the In service personnel, Fire Services personnel from other States, Training program for the member of different Public Sector undertakings, Civil Defence volunteers, General public awareness

1.5.5 Irrigation and waterways Department, Govt. of west Bengal

- Maintain unobstructed flow and maintain required carrying capacity in the drainage channel, large scale desiltation works of capital nature in the clogged drainage channels in Kolkata and nearby districts of North & South 24-Parganas, Hooghly, Howrah, and Purba & Paschim Medinipur.
- Bringing drainage channels passing through Corporation, Municipal and adjoining semi-urban areas, and prone to clogging due to growth of water hyacinth and dumping of garbages, through Annual Maintenance contracts to keep those clean round the year.
- Operation & Maintenance of pumping stations of I &WD within the jurisdiction of KMC
- Holding regular pre-monsoon monitoring meeting since 2016 with the District Magistrates and other authorities of North & South 24-Parganas, Hooghly & Howrah and also with KMC officials for better inter-sectoral coordination.
- Awareness campaign in print and electronic media, immediately before and during the monsoon to sensitize the people and curb the tendency of directly dumping all sorts of wastes and garbage in the irrigation canals and drainage channels.
- Apart from that, flushing during the non-monsoon period is periodically done in the channels outfalling to river Hooghly, e.g. Circular-Beliaghata-New Cut, Keshtopur and Monikhali & Churial Khal.

- During monsoon ie. from 1st June to 31st October every year :
- a) Uploading data of various river & rain gauge station, maintained by Irrigation & Waterways Department in the web site www.wbiwd.gov.in, so that anybody can view the data.
- b) Submit Daily flood reports to the Chief Secretary and Home secretary to the Govt of West Bengal as well as State Disaster Management Department, Govt. of West Bengal at Nabanna.
- c) Disseminate Separate Flood Bulletin to the District Disaster Management Offices during Flood Emergency.

1.5.6 Transport Department, Govt. of west Bengal

- Provide bus service to the Kolkata city as well as additional bus service during any emergencies.
- Organise awareness programme to prevent accidents under the flagship of Save Drive Safe Life Campaign
- Repair and renovation of Buses/trams belongs to different STU like WBTC
- Enforcement of laws regarding pollution Control, road safety and River Safety

1.5.7 NDRF

The Disaster Management Act, 2005 has statutory provisions for constitution of National Disaster Response Force (NDRF) for the purpose of specialized response to natural and man- made disasters. Accordingly, in 2006 NDRF was constituted with 8 Battalions. At present, NDRF has strength of 12 Battalions with each Battalion consisting of 1149 personnel. In the beginning, the personnel of NDRF were deployed for routine law and order duties also. In a meeting of the NDMA with the Prime Minister on October 25, 2007, the need of NDRF being made a dedicated force was highlighted and accepted. This led to the notification of NDRF Rules on February 14th, 2008, making NDRF a dedicated force for disaster response related duties, under the unified command of DG NDRF. The 2 nd Battalion of NDRF is located at Haringhata, west Bengal.

1.5.8 CESC, Kolkata

- Restore the electricity supply
- Repair the uprooted electric poles and damaged electric wire during any heavy rainfall or thunderstorm/cyclone

1.6 Plan review and updation:

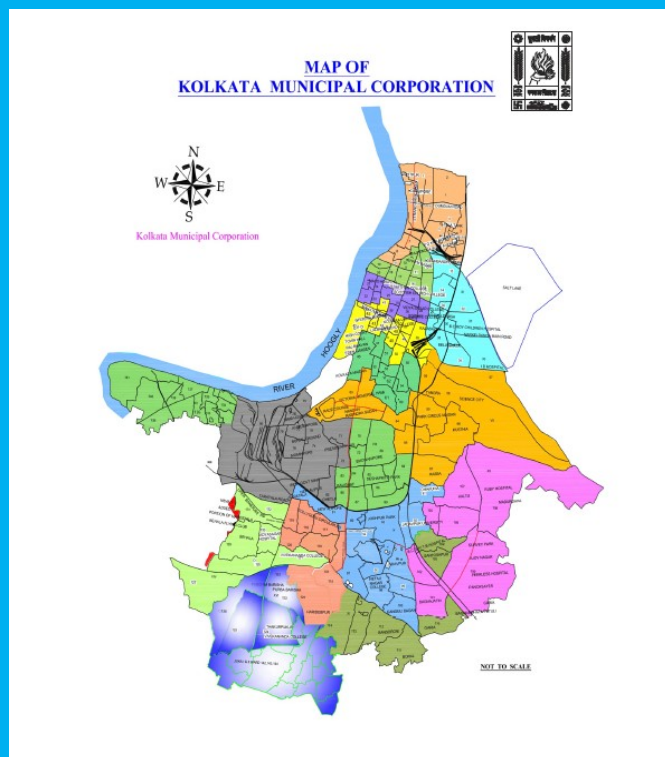
The DDMP of Kolkata is updated once in a year

2. HAZARD, VULNERABILITY, CAPACITY AND RISK ASSESSMENT (HVCRA)

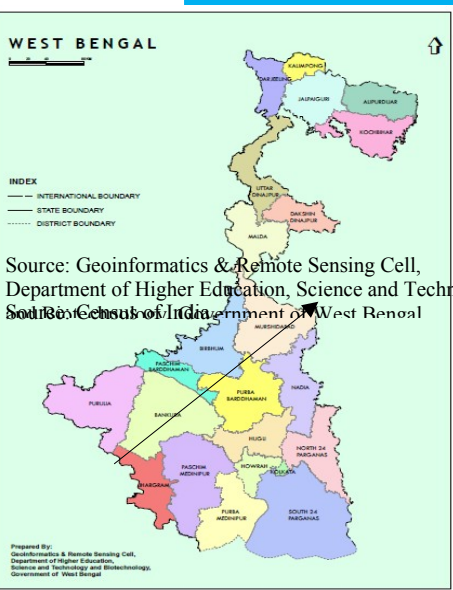
2.1 Brief introduction about the city of Kolkata

2.1.1 Location

Kolkata (formerly known as Calcutta) is the capital of West Bengal, and is one of India's oldest urban areas. Historically, the city was the trading and commercial capital of India and is located on the eastern bank of the river Hoogly, a distributary of the River Ganges. The Kolkata city area is situated between 22°3'N – 22°37'N latitude and 88°18'E – 88°23'E longitude. Calcutta was established and developed as a City from 1690 onwards and was the erstwhile Capital of the British Indian Empire.



Source: KMC



Source: Geoinformatics & Remote Sensing Cell, Department of Higher Education, Science and Technology, Government of West Bengal

Fig2.1 Location

Map of Kolkata Municipal Corporation

The city established as a trading port by the British East India Company. Kolkata, being the capital of the British India, had a prime place in the politics and economy of the country. It caters most of the commercial and financial activities of the eastern region of India. As per the 2011 census the city which is managed by the Kolkata Municipal Corporation (KMC) has a population of 4.5 million and covers an area of 200.71 square km (divided into 16 boroughs comprising 144 wards). Kolkata Municipal Corporation (KMC) is the local authority to provide the basic services for the citizens such as supply of drinking water, sewerage, drainage, solid waste management, roads maintenance, street lighting, slum development works etc. Kolkata is an unplanned city striving with the challenging issues like traffic-transportation,

congested roads, presence of large scale informal activities along the major road junctions, growing pressure of population, growth of slums etc.

Table No. 2.1: The growth trend of Kolkata City (Area and Population)

Year	Area (sq. km)	Population (in lakh)	Growth Rate (%)	Remarks
During 1900	83.15			A vast green central park called the Maidan-4.50 sq km (1113 acres)
1901		8.47		Was the second most populated city in Asia and the British Empire <i>Later its area expanded to include many suburban Municipalities</i>
1941		21.6	86.0	*The demographic profile of the city underwent much change during this unsettling period between 1947 and 1961
1951		26.9	24.0	
1961		29.2	8.5	* Political turmoil and labour unrest in the late 1960s and early part of 1970s also affected the city causing loss of its economic preponderance
1971		31.4	7.5	
1981	104.0	32.9	4.4	In 1984, Jadavpur, South Suburban and Garden reach municipalities with more than 800,000 inhabitants in 1981 were amalgamated to Kolkata Corporation.
1991	185.0	43.9	6.3**	This per centage (6.3%) refers to the decennial growth of population for the area, which is defined as Kolkata Corporation in 1991 census
2001	185.0	45.7	4.45	Renamed as Kolkata
2011	185.0	45.0	-1.53	In the year 2013 three wards has been added under the area of Kolkata Municipal Corporation. After that, now the area of KMC is 200.71 sq km.

It has been observed from the statistics given in the above table that the population of Kolkata in the year 2011 was 44.96 lakhs as compared to 45.72 lakhs in 2001 and thus recorded a negative growth rate.

According to the former director of Indian Institute of Population Sciences in Mumbai Dr TK Roy, one of the major reasons behind this could be the migration of people. While the

young generation is migrating to other cities and abroad for employment, some are being pushed to the outskirts due to skyrocketing real estate prices in the city.

Census 2011 showed that Kolkata's total fertility rate (TFR), had plummeted to 1.2 the lowest among all districts in India, which is another reason for decline in population growth rate.

2.1.2 Physiography and Land Use

The existing linear form of the city presents a marked contrast to either radial or radio centric forms of spatial development pattern of many riverside metros. Kolkata's development was different due to its peculiar 'land form' pattern as much as to its major communication routes - which run predominantly north to south along the river bank. The river Bhagirathee (Ganga), over centuries, has deposited large quantities of alluvial silt along its both banks, forming natural levees of high land suitable for human habitation on both banks. Here the land slopes away from the river all along the banks and within short distances – i.e. about four to five kilometers away from the river, low-lying areas or swamp begins. Therefore, physical extension of the city towards easterly direction was practically restricted. This peculiar landform characteristics presented great constraint for any compact urban development form around a fixed nucleus and resulted linearly developments. Thus in physical growth pattern of Kolkata the inevitable has happened. As faster increase of population could not be matched with supply of good quality build-able land for human settlement or any systematic provision for extension of basic transportation and infrastructure networks throughout the city, already developed build-able areas slowly got saturated and substantial communities grew up in the low lying suburbs of eastern and south eastern fringes.

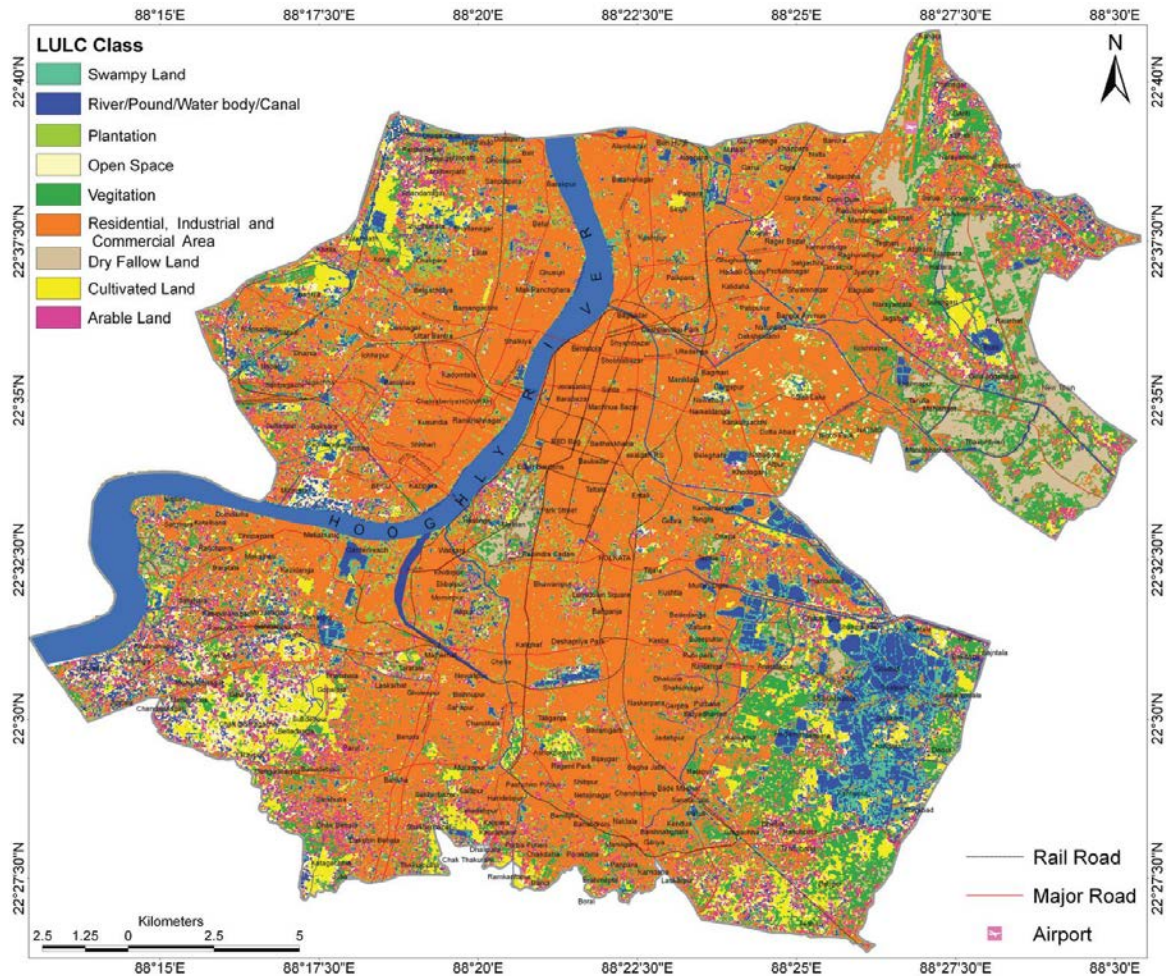


Fig. 2.2: Landuse Map of Kolkata city and surrounding areas

Source: Geoscience Division Ministry of Earth Sciences, Government of India

Within the municipal limits of Kolkata, the fastest growth has occurred in relatively less accessible low-lying, poorly drained, un-sewered areas located in Borough VII and XI to XV. The urban growth that took place subsequently, thus, could not follow any desirable relationship with the existing landform pattern of Kolkata. Residential growth, in fact, has been occurring in areas of severe geographical constraints — where the only lands available for development were mainly those rejected as unsuitable by the earlier generations of Kolkata’s residents. These lands are either predominantly low lying, swampy and immediately flooded by the monsoon rains each year or encroached land of railways, canal banks, even dry canal beds, garbage disposal areas and the like. It is not only very expensive to make these areas suitable to a point when decent urban development can take place, it also became highly difficult and expensive for the Kolkata Municipal Corporation to extend all basic utility and services to these areas. From the map (Fig.2.2) it can be said that maximum area of the Kolkata is residential and commercial, therefore decreasing the infiltration

capacity due concrete structure and thus leading to water logging problem in rainy season. Moreover the building sector is the main source of green house gas, which is responsible for increasing city temperature day by day.

2.1.3 Soil

The soil of Kolkata city is formed with alluvial deposits of the Gangetic Delta and has alternate layers of sand and clay mixed with silt, similar to the soil of Indo-Gangetic plains. Quaternary sediments consisting of clay, silt, various grades of sand and gravel underlie the city. These sediments are sandwiched between two clay beds, the lower one at depths between 250m and 650m and the upper one ranging between 10m and 40m in thickness. The soil is susceptible to failure of foundations due to LIQUIFACTION. Its soil is represented by a huge thickness of unconsolidated younger deltaic deposits of Holocene age. The sediments composed of sand, silt and clay in varying proportions are often associated with angular calcareous concentration (kankar), decomposed organic matters and one or two peat layers. Since there is a close linkage between landform, sediment content and depositional process in deltaic environment – the composition of sediment in different landform units vary considerably. The presence of decomposed vegetative matter, wood pieces and peat layers within the clay silt deposit at shallow depth throughout the area, represents Palaeo-tidal flat environment similar to the present day environment of Sundarban area with mangrove vegetation.

2.1.4 Geology and Geomorphology

Kolkata is located over a tiny part of the huge pericratonic Bengal Basin with an enormous thickness of fluvio-marine sediments. The sediment thickness and facies are significantly varied from the shelf area in the west and the deep basinal region in the east. The total sedimentary thickness below Kolkata is in the order of 7500 m above crystalline basement, out of which the top 350-450 m is Quaternary sediment followed by 4500-5500 m of Tertiary sediments, 500-700 m of Cretaceous Trap/Trap wash and 600-800 m of Permo-Carboniferous Gondwana rocks (Das and Chattopadhyay, 2009; Nandy, 2007).

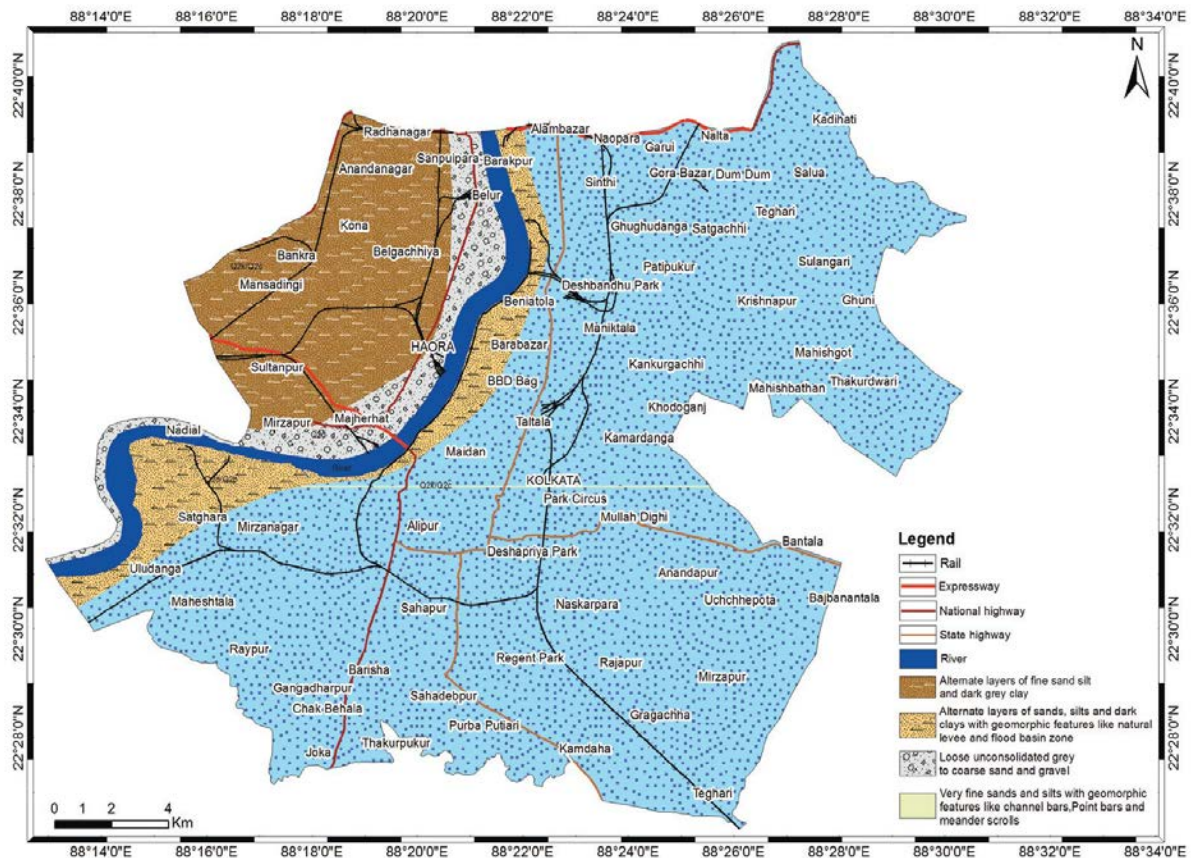


Fig.2.3: Geology map of Kolkata constructed from borehole litholog data and district resource map published by GSI

Source: Report of Geoscience Division, Ministry of Earth sciences on Seismic Hazard, Vulnerability and Risk Microzonation atlas of Kolkata prepared by Prof. Sankar kumar Nath)

The geology in and around Kolkata is rather uniform, characterized by the presence of 30-60 m thick grey sticky clay followed by relatively coarser sediments consisting of either silt/fine to medium sand or coarse sand with or without pebbles/cobbles (Chatterjee *et al.*, 1964). The recent geological formations, poorly consolidated/unconsolidated water charged sediments and man-made landfills posed favourable conditions for liquefaction in the City. More than half of the study area, *i.e.* nearly 330 km², extending from northeast to southeast of the region is covered with very fine sand and silt in channel bars, point bars as well as meander scrolls. The northwest region of the study area is nearly 57 km² characterized by unconsolidated sediments, alternate layers of fine sand, silt, and dark clay, which belongs to the Panskura formation or equivalent to the Chinskura formation as shown in Figure 1.4. Alternate bands of sands, silts and dark clays from the Panskura / Chinskura formation equivalent to the Arambag formation are exhibited to the eastern part of the River Hooghly on natural levees and flood zone. Loose unconsolidated grey to coarse sand and gravel from Hooghly formation of the Late Holocene age covered the minimum areal extent in the west of the

Hooghly River. The spatial extent of these geological units is represented in Figure 2.4 (Report of Geo science Division Ministry of Earth Sciences, Government of India)

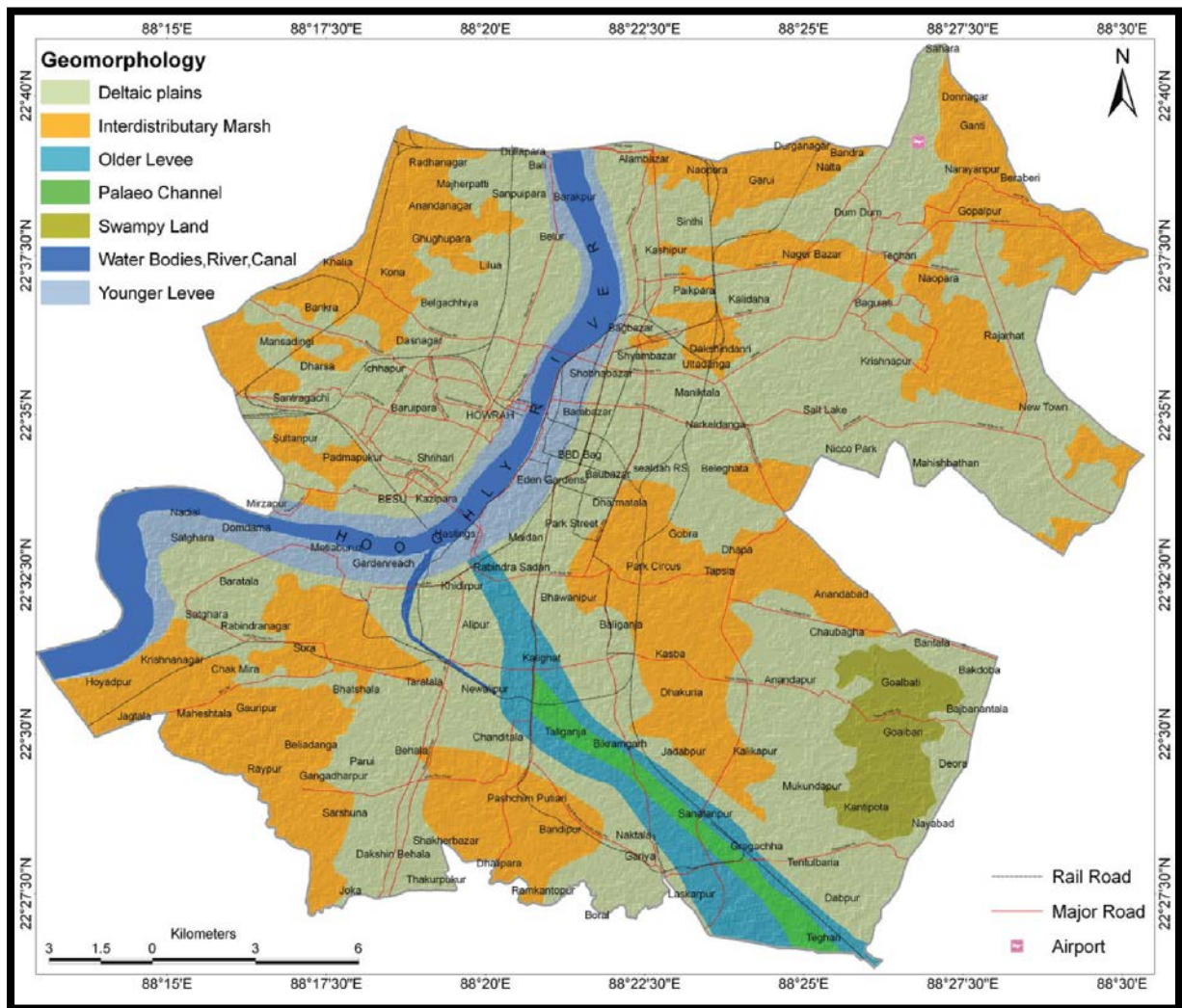


Fig.2.4: Geomorphological units of Kolkata.

Source: Report of Geoscience Division, Ministry of Earth sciences on Seismic Hazard, Vulnerability and Risk Microzonation atlas of Kolkata prepared by Prof. Sankar kumar Nath)

Geomorphologically the city of Kolkata conforms to flat topographic features with an average elevation of 6.4 m above mean sea level sloping mostly southward. The major geomorphic units exposed in Kolkata are broadly classified into six units *viz.* deltaic plains, interdistributary marshes, paleochannels, younger levees adjacent to the River Hoogly and older levees on both sides of the old Adi Ganga as shown in Figure 2.24 (Nath *et al.*, 2014; Roy *et al.*, 2012). The major part of the City is covered by the Deltaic plains with 233 km². Youd and Perkins (1978) classified the geomorphological units with affinity to high, moderate and low susceptibility to liquefaction, with the maximum likelihood in deltas, river channels and uncompacted artificial fills, whereas Ganapathy and Rajawat (2012) asserted abandoned river channel to be “likely” liquefiable. Geomorphologically Kolkata lie under the

river channel, flood plain, alluvium fan/plain and delta/fan-delta depositional environment which indicate moderate to very high susceptibility to liquefaction (Youd and Perkins, 1978). However, Ambraseys and Bilham (2003a) mapped nearly eighty six liquefaction sites triggered by the near-and-far field earthquakes on depositional environment in the Bengal. Thus, in Kolkata, all the geomorphological units have potential liquefaction susceptibility during strong seismic shaking. [Report of Geoscience Division, Ministry of Earth sciences on Seismic Hazard, Vulnerability and Risk Microzonation atlas of Kolkata prepared by Prof. Sankar kumar Nath]

2.1.5 Climate

During early summer, dusty squalls followed by spells of thunderstorm and heavy rains lash the city, bringing relief from the humid heat. These thunderstorms are convective in nature, and are locally known as Kal baisakhi. Humidity averages 78%.

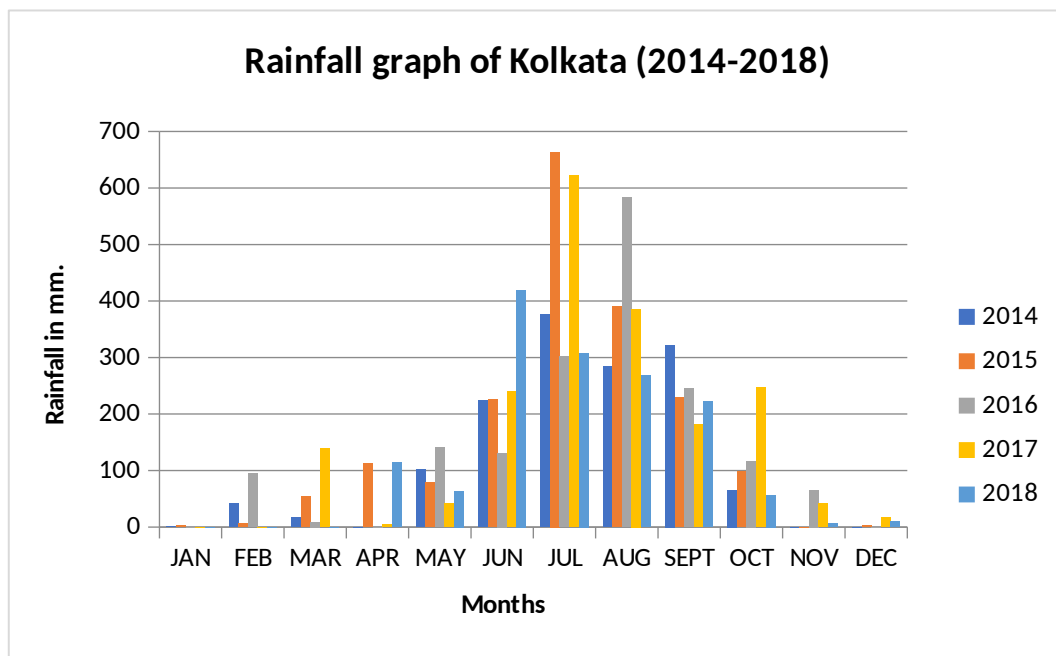


Fig. 2.5: Rainfall Graph of Kolkata (2014-2018)

Data Source: IMD, Ministry of earth Sciences)

The wetlands surrounding the city in the west and south-west are now mostly filled up by urban expansion. The climate of Kolkata is humid during summer and pleasant in winter. Maximum temperature rises during the summer months of May - June up to 42° C and the minimum temperature falls during winter months of December - January up to 10° on an average. Monsoon stays from June to mid October. The humidity varies from 65% to 85% during the year, it rises in summer and lowers in winter.

2.1.6 Demographic Features

The population of KMC area is 44, 96, 694 according to 2011 Census. Kolkata is catering a floating population 60, 00, 000 per day. Population density of Kolkata City is 24,429 per sq. km.

Table No. 2.2: Basic statistics of Kolkata City

Total No of households in Kolkata City	1024928
Total Population	4496694
Total male population	2356766
Total female population	2139928
Male literacy rate	1926915 (53.70%)
Female literacy rate	1661222 (46.30%)

Source: Census of India 2011

Table No. 2.3: Ward-wise Population by sex and Households in Kolkata (2011)

Ward Number	Number of Households	Total Population	Number of Males	Number of Females
1	11394	53125	27945	25180
2	11305	48190	24381	23809
3	11617	53855	27636	26219
4	8558	34476	17403	17073
5	5815	23707	12243	11464
6	8855	42346	22977	19369
7	4240	19180	9942	9238
8	4285	18760	9498	9262
9	3834	16420	8573	7847
10	5139	27700	14513	13187
11	4715	22152	12086	10066
12	4864	21493	11884	9609
13	7292	33066	17633	15433
14	12387	53343	27064	26279
15	5397	23922	12641	11281
16	4230	20904	10767	10137
17	4895	21023	10824	10199
18	5525	22267	10738	11529
19	4593	21158	11467	9691
20	4310	21576	12180	9396
21	4304	21187	13127	8060
22	2884	15730	9847	5883
23	3338	18256	10901	7355
24	3842	19824	12264	7560
25	5838	27484	14992	12492
26	5659	25371	13692	11679
27	4352	19350	10271	9079

28	7223	38110	20788	17322
29	9047	53782	28942	24840
30	6747	30050	15649	14401
31	8800	39025	20995	18030
32	10708	45636	22931	22705
33	11095	45919	22818	23101
34	7611	29773	14797	14976
35	8524	35024	17481	17543
36	4574	27238	16743	10495
37	4688	24020	14057	9963
38	6500	28791	16196	12595
39	3716	21296	12165	9131
40	4733	20549	11771	8778
41	3425	19946	11540	8406
42	3749	21746	15827	5919
43	2878	17677	10899	6778
44	5043	29600	17727	11873
45	1704	8394	5823	2571
46	2316	12823	7684	5139
47	3271	14684	8427	6257
48	4671	20437	11128	9309
49	3965	19416	13511	5905
50	3791	17251	9087	8164
51	3273	13556	7164	6392
52	3304	16869	10205	6664
53	5405	25598	13862	11736
54	6666	36235	18937	17298
55	6745	32254	17450	14804
56	8941	43622	23018	20604
57	11051	49856	26142	23714
58	20093	88465	46207	42258
59	15157	70261	36341	33920
60	6755	35732	18964	16768
61	5447	29704	15954	13750
62	6400	34832	18736	16096
63	4674	24387	14292	10095
64	6342	31280	16652	14628
65	14092	72427	38317	34110
66	20797	98024	51138	46886
67	13631	56284	28910	27374
68	4812	20724	10434	10290
69	9615	44111	22906	21205
70	3879	18618	9750	8868
71	6266	29922	15550	14372
72	4306	19167	10160	9007
73	5260	23512	12541	10971

74	9189	42176	24148	18028
75	5978	26925	15370	11555
76	5052	21946	11507	10439
77	8829	45984	24156	21828
78	10637	54090	28435	25655
79	9235	44303	24125	20178
80	7124	31094	17364	13730
81	10211	41501	21131	20370
82	9994	38838	19782	19056
83	5176	22163	11113	11050
84	4420	19230	9783	9447
85	6402	29566	15059	14507
86	4921	19195	9724	9471
87	3227	12675	6285	6390
88	6109	23672	11996	11676
89	5819	22304	11395	10909
90	4761	18857	9255	9602
91	9995	38450	18967	19483
92	10177	36450	17865	18585
93	11871	44364	22176	22188
94	7121	27469	13918	13551
95	7651	26737	13212	13525
96	8893	31033	15357	15676
97	10222	37199	18613	18586
98	8904	31708	15406	16302
99	7222	26739	13305	13434
100	7269	25507	12386	13121
101	10934	40208	19831	20377
102	5867	21503	10624	10879
103	7105	25428	12499	12929
104	9224	33185	16385	16800
105	5639	21267	10609	10658
106	10558	40618	20466	20152
107	13518	54260	27977	26283
108	15854	64777	33428	31349
109	16238	64567	32460	32107
110	7628	27470	13681	13789
111	10156	38647	19656	18991
112	8373	32404	16309	16095
113	8508	33475	16721	16754
114	10958	41913	21093	20820
115	8461	31919	16001	15918
116	6897	28338	14495	13843
117	5226	21824	11121	10703
118	5433	21810	10897	10913
119	4081	16491	8319	8172

120	5249	19710	9662	10048
121	7712	29921	14919	15002
122	9977	39198	19906	19292
123	9425	35386	17727	17659
124	10128	39179	19352	19827
125	11297	44850	22611	22239
126	8247	31631	15756	15875
127	11221	43782	21920	21862
128	8405	32179	16041	16138
129	10206	39654	19797	19857
130	6150	23227	11327	11900
131	8284	30911	15480	15431
132	6722	26274	13320	12954
133	5306	25588	13294	12294
134	6281	35780	18730	17050
135	5911	33258	17553	15705
136	4485	21482	11022	10460
137	3373	19385	10507	8878
138	4629	28858	15581	13277
139	6937	42014	22225	19789
140	5004	30504	16074	14430
141	7755	41152	21452	19700

Source: Census of India 2011

2.1.7 Slums

Slums are one of the very common features of cities whether it is metro or small town. Over the years the issues related to slum has challenging the government authorities as well as the organisations working on Poverty and human rights. In 1947 after partition Kolkata City faces huge influx of population which contributed a lot towards the growth of several slums and refugee colonies in the city. Over the years growth of population due to natural causes and migration from the nearby towns and States has led the situation out of control.

However inaccessibility to housing schemes, basic services and increasing demand of the real estate has marginalised the poor people one step further and creating a separate city within a bigger city. In 1981, 3.2 million (35%) out of 9.16 million residents were classified as slum dwellers (Ref: Status of Kolkata megacity disaster management system in view of recent natural disasters).

2.1.7.1 Age and Location of Slums

The slums of Kolkata can be divided into groups, the older slums located in the heart of the city, some as old as 150 years, and the more recent slums mostly located in the outskirts of the city. Most of the slums are located in residential areas within the city. Few slums exist on

the western side of the bypass while there are slums on the eastern and north-western side of the bypass which are located on raised land that was previously low-lying wetlands (Bheri region). This area is still surrounded by vast water bodies into which sewage flows from the city. The remaining land is utilised for vegetable and flower cultivation, while fish cultivation occurs in the water bodies. Many slums developed along the canals (Jagarani, Netainagar, Sri-Haripally) and wetlands (Chit Kalikapur). Along with these many slums have come up around the garbage dump in Dhapa. KMC has focused its efforts to provide the basic amenities like housing, water supply, sanitation and electricity in authorised slum colonies. The slum population is extremely vulnerable towards any kind of disaster such as floods, health hazards, fires and cyclones.

2.1.7.2 Population of Slums

According to Census 2011, the city's slum population is **14.09 lakh** which accounts for 31.35 percent of the total population of the city. Another survey conducted by the KMC in 2009 reports that 15.70 lakhs slum people live in 1460 slum pockets in 141 wards in KMC.. According to the Survey report of KMC the total slum area is 25.95 Sq. Km. The KEIP Slum Master Plan indicates that 1.92 million (42% of 4.58 million population) population in KMC is estimated to live in slums/bustees and other low income settlement zones and pockets.

The slums residents are the most vulnerable group of urban area because they are low income group and the place where they live.

Table No. 2.4: Borough wise list of slum dwellers, area and number of bustee pockets in KMC area

Borough No.	No Of Bustee Pockets	Area(sq. m.)	Families	Male	Female	Children	Total Dwellers
I	104	572643.62	15802	35564	31459	11837	78860
II	77	338226.39	10638	28273	22935	6004	57212
III	98	2507917.7	34196	63018	61705	31524	156247
IV	82	507996.25	15038	37072	25733	19234	82039
V	66	364786.15	8130	20419	16285	8165	44869
VI	100	851650.45	18760	37511	33130	37563	108204
VII	172	4303279.4	57470	112889	103385	70199	286473
VIII	168	445217.6	15409	29803	25601	15544	70948
IX	118	1408743.2	29661	55476	52921	23380	131777
X	84	815825.57	14598	30932	29402	12080	72414
XI	53	2284114.5	13257	24710	22154	13553	60417
XII	84	4356017.2	24577	45250	40681	24231	110162
XIII	80	1160520.4	10140	7794	7330	5258	49342
XIV	83	2525613	15743	18979	18546	10592	68982
XV	91	3510804.5	34348	55819	52762	41722	192369

TOTAL	1460	25953356	317767	603509	544029	330886	1570315
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Source: Slum Department, KMC (2009)

2.2. Hazard and vulnerability analysis

The populous City of Kolkata is situated in the multi-hazard prone southern part of the state of West Bengal which has considerable risk of damage/loss of lives and property due to natural hazards like Cyclone, Earthquake and Flood even if we keep aside the threats due to human induced hazards as Fire, Accidents, Industrial & Chemical hazards etc. To minimize the losses due to disasters and to have a disaster resilient society, *we must have clear understanding in regard to the type and strength of each of the probable threats* which may cause disasters of medium or large scale in the city.

As per National Disaster Management Act of 2005:-

Hazards are basically of two types:

- **Natural Hazards** → Hazards with meteorological, geological or biological origin.
- **Unnatural Hazards** → Hazards with human caused or technological origin.

❖ **Disaster** is a catastrophe, mishap, calamity or grave occurrence in any area, arising from natural or man-made causes, or by accident or negligence which results in substantial loss of life or human suffering or damage to, and destruction of, property, or damage to, or degradation of, environment, and is of such a nature or magnitude as to be beyond the coping capacity of the community of the affected area.

❖ **Vulnerability** is the extent to which a community, structure, service or a geographic area is likely to be damaged or disrupted by the impact of particular hazard, on account of their nature, construction and proximity to hazardous terrain or a disaster prone area. Vulnerabilities are also mainly of two types:

Physical vulnerability → Weak Buildings, Structures, infrastructure or living being which are incapable to any extent of resisting themselves becoming prey to disaster(s).

Social and Economic Vulnerability → Human being incapable to any extent of resisting themselves falling prey to disasters. Economic vulnerability relates to economic losses to any extent caused by disaster(s).

❖ **Capacity building** includes:

- i) Identification of existing resources and resources to be acquired or created.
- ii) Acquiring or creating resources identified under (i) above.

iii) Organization and training of personnel and

iv) Coordinated application of such training for effective management of disasters.

- ❖ **Risk** is a measure of expected injury or loss of life or expected damage to property or economic activity due to a hazard of a particular magnitude occurring in a given area over a specific period of time. The correlations among hazard, vulnerability, capacity etc. are shown below with a figure in the box and also an expression which is not exactly mathematical but explains the relations.

From the map (Fig.2.6) it can be said that the vulnerability to different types of hazard is very high in Kolkata because of its huge population and exposure to hazards like water logging, earthquake, cyclone, fire, building collapse and other social or technological hazard.

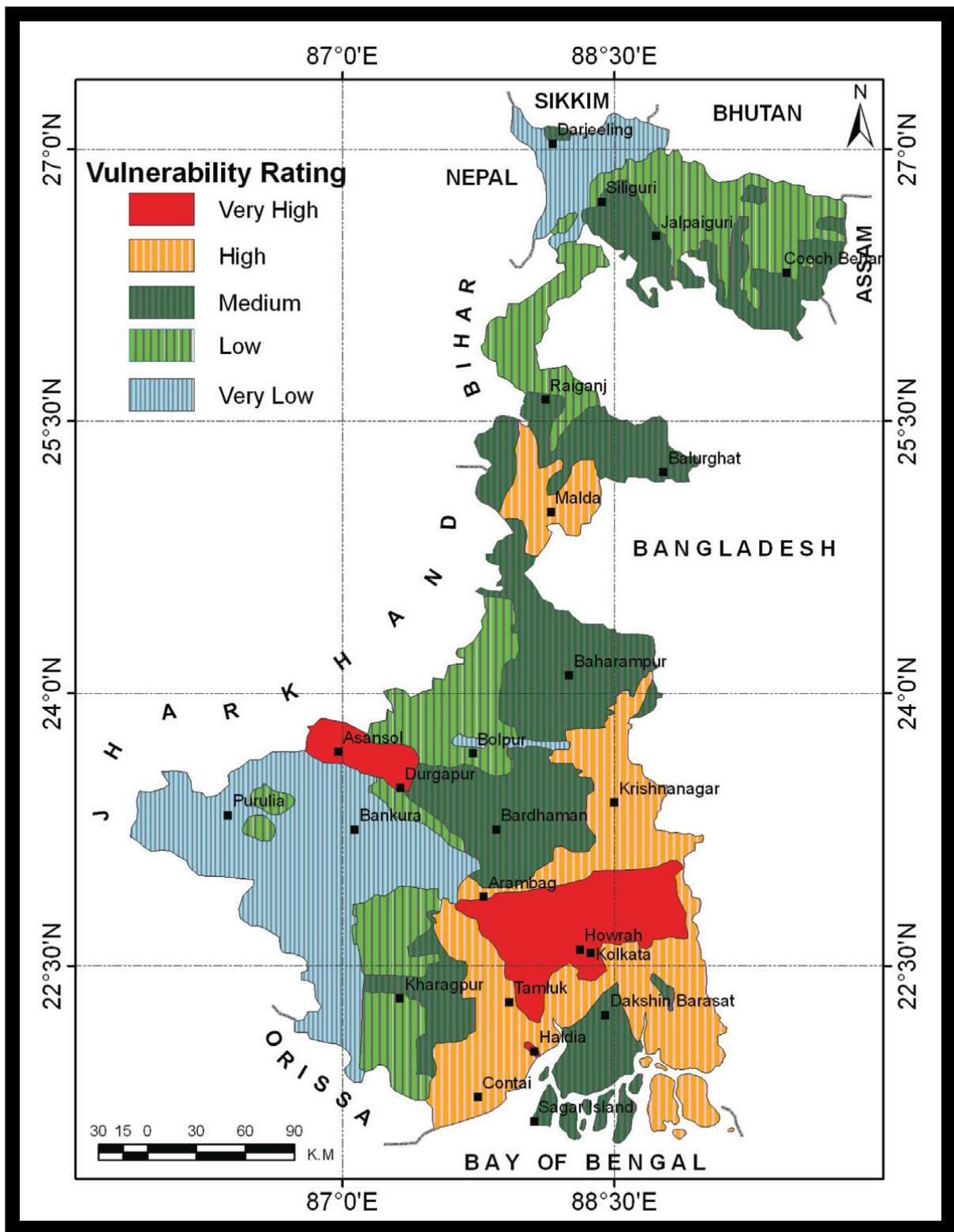


Fig. 2.6: A composite vulnerability macro-zone map of West Bengal computed from integration of hazard distributions - earthquake, flood, wind and cyclone, landslide, and subsidence along with vulnerability components represented by district-wise population density, and Industrial output distribution (after Nath et al., 2008a)

Source: Report of Geoscience Division, Ministry of Earth sciences on Seismic Hazard, Vulnerability and Risk Microzonation atlas of Kolkata prepared by Prof. Sankar kumar Nath)

2.2.1 Wind and Cyclone

About 120 million people all over the world are exposed to tropical cyclone hazards on average every year. High relative vulnerability has been found in Bangladesh which has experienced very strong wind coupled with very heavy rainfall many times in the past few decades. The coastal part of India with substantial populations and high percentage of arable lands are also highly vulnerable.

The criteria followed by the India Meteorological Department (IMD) to classify the low pressure systems in the Bay of Bengal and in the Arabian Sea as adopted from the World Meteorological Organization (W.M.O.) classification are as given in the following table.

Table No. 2.5: Strength of Tropical Cyclones classified according IMD

Category	Wind Speed (Km/hr.)
Low Pressure Area	< 31
Depression	31 to 49
Deep Depression	50 to 61
Cyclonic Storm	62 to 88
Severe Cyclonic Storm	88 to 118
Very Severe Cyclonic Storm	119 to 221
Super Cyclonic Storm	≥ 222

Source: IIT Kgp Report

2.2.1.1 Vulnerability of Kolkata city to Wind and Cyclone

The Bay of Bengal is potentially energetic for the development of cyclonic storms and accounts for about 7% of the global annual total number of storms (Gray, 1968).

The following **Vulnerability Map (Fig 2.2) of West Bengal due to Wind and Cyclone** (published by BMTPC, Govt. of India) reveals that **Kolkata City along with its surrounding districts fall in Very High Damage Risk zone due to Wind and cyclone** and can be hit by basic wind speed (Vb 50 metre per second i.e. 180 kmph). The well known cyclonic storm SIDR which hit Bangladesh just passing by the Sagar Island of West Bengal on 15th November, 2007 was a sample of this threat. The Cyclone AILA , caused huge damage to the North 24

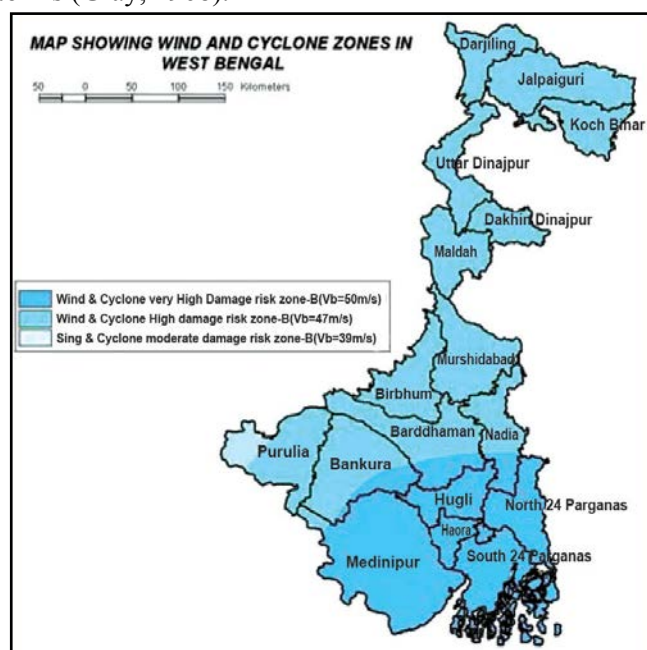


Fig.2.7: Cyclone Vulnerability map of West Bengal

and Kolkata. Death tolled to 146. So, **Kolkata may have to face super cyclone** in the days to come like Orissa experienced in 1999.

The recent environmental studies envisage possibility of higher wind speed due to global (also local) Climate Changes. One of the most important climate change induced risk is that of cyclonic storms, storm surge and accompanying coastal inundation. A sea surface temperature (SST) rise of 2 to 4 °C, as expected in the Indian Ocean over the century, is expected to induce 10 to 20 percent increase in cyclone intensity (Aggarwal and Lal 2001).

2.2.1.2 History of Past Major Wind & Cyclones in West Bengal

Table No. 2.6: Past Catastrophes due to Wind & Cyclone in West Bengal

Period	Description
02–21/03/1833	The event occurred at Sagar Island/24 Paraganas with 3 m high surge and caused 50,000 deaths and about 100,000 cattle perished
03/10/1854	The surge went up to 12 m and water level increased at Kolkata and its vicinity. About 50,000 deaths reported
02–05/10/1864	Caused flooding up to 13 km on either side of the Hooghly River with 80,000 deaths Reported
05–01/11/1867	Reported to have damaged Port Canning, and caused 13 m high surge at Hatia and Bhola Islands
13–16/10/1874	About 3049 deaths reported
21–26/09/1887	No estimation of associated deaths
18–29/09/1916	Extensive damage reported; however, no estimation of deaths
14–16/10/1942	About 5 m high surge reported at Midnapur (64 km upstream in Hooghly River). Overall 15,000 deaths reported.
29/05/1956- 01/06/1956	Caused flooding in Midnapur District, and also damage to agriculture due to saline water intrusion
27/09/1971- 01/10/1971	Sixty people died and thousands of houses collapsed.
13–20/08/1974	Cyclonic storm over land with maximum wind speed of 139 kmph caused floods in several districts. Seven deaths reported.
12–11/09/1976	About 2.5 m high surge along with 1.4 m tide caused 40 deaths.
24–28/09/1981	Caused loss of five launches in the Bay and damage to many houses in Midnapur District.

09–14/10/1984	Caused damage in Midnapur district.
23–27/05/1989	Sixty-one persons died and thousands of cattle perished.
12/11/2002	Caused 78 deaths along with the destruction of agricultural crops and property.
25/05/2009	Cyclone AILA, caused huge damage to the North 24 Pargans, South 24-Parganas, Purba Midnapur and Kolkata . Death tolled to 146.
12/10/2013	Cyclone caused by Phailin. Death of 23 persons in the District Purba Midnapur, Paschim Midnapur and Burdwan.

Source: Source: State DM Plan, Government of West Bengal, 2016

From the past record of wind and cyclone it is evident that cyclone is a common phenomenon in the coaster region of West Bengal and the most important urban conglomeration within the easy reach of tropical cyclonic storms in West Bengal is the state capital Kolkata. Therefore Kolkata is in the high cyclone vulnerability and Risk zone.

Table No. 2.7: Losses due to thunderstorm occurred in the year 2018 and 2019

Period	Description
17.04.2018	Thunderstorm caused damages to house and electric poles in the KMC area, 256 (approx) trees has been uprooted, 4500 (approx) no of people affected, 6 people died.
18.05.2018	Thunderstorm caused damages to house and electric poles in the KMC area, 53 (approx) trees uprooted, 2000 (approx) people affected, 1 person died.
16.08.2019 - 17.08.2019	The city of Kolkata experienced thunderstorm with intense rainfall and lightning. 16.08.2019 2 P.M to 17.08.2019 2 P.M Kolkata recorded 153.50 mm of rainfall. Major water logging occurred at some places of Br- IX, X, XI, XII, XIII, XIV, XV and XVI. 1 person died and 16 people injured due to lightning in Victoria Memorial area. Another person died due to lightning in Tollygunge area. One person died due to electrocution and another person died due to drowning in Ekbalpore area.

Table No. 2.8: Losses due to cyclone “FANI” and “BULBUL” in the year 2019 in Kolkata City

Period	Description
03.05.2019- 04.05.2019	Cyclone " FANI " caused damages to house, electric poles etc. 55 severely damaged house, 10 damaged electric post and 15 uprooted trees reported after the incident. 35000 (approx) people affected.
09.11.2019	<p>Very severe cyclonic storm BULBUL caused huge damage to properties in Kolkata City. 48 numbers of uprooted trees, 43 numbers of broken branches of trees and 82 numbers (approx) of severely damaged pucca house reported. One person died due to this incident.</p> <p>Damages of properties (Rs.)</p> <ul style="list-style-type: none"> • Electric pole and other accessories damaged- 7,50,00,000/- • Roads damaged- 10,50,00,000/- • Engineering damaged- (drainage, footpath)- 10,50,00,000/- • Health Measure- 1,50,00,000 • House damaged- 10,33,200/-

2.2.1.3. Impact of Wind and Cyclone on Kolkata city

A mature tropical cyclone can release heat at the rate of 6×10^{14} Watts or more (NOAA, http://www.noaa.gov/questions/question_082900.html). The most devastating effects of a tropical cyclone occur when they cross coastline, making landfall. According to India Meteorological Department (website: <http://www.imdmumbai.gov.in/cycldisasters.htm>) there are three elements associated with a cyclone, which cause destruction. These are:

- 1) Cyclones are associated with high-pressure gradients and consequent strong winds. These in turn, generate storm surges. A storm surge is an abnormal rise of sea level near the coast caused by a severe tropical cyclone; as a result, sea water inundates low lying areas of coastal regions drowning human beings and livestock, eroding beaches and embankments, destroying vegetation and reducing soil fertility.
- 2) Very strong winds may damage installations, dwellings, communication systems, trees, etc. resulting in damage to and loss of life and property. A few major examples of devastation were cited above.
- 3) Heavy and prolonged rains due to cyclones may cause river floods and submergence of low lying areas by rain causing loss of life and property. Floods and coastal inundation due to storm surges pollute drinking water sources.

It may be mentioned that all the three factors mentioned above occur simultaneously and, therefore, operations for distress mitigation become difficult.

Severe/ very severe Cyclonic storms will affect the slums and squatter settlements in the city more and cause extensive damage to the kutchha houses and considerable damage or collapse for the very weak non-engineered buildings associated with blowing up of roofs and various other things (e.g. light roof water tank, mobile towers, hoardings) not properly anchored to the buildings/structures. The most vulnerable urban residents are the poor, slum and squatter settlements dwellers and those who suffer from the multiple insecurities due to various unfortunate reasons. Through a long process of loss accumulation they are multiply challenged by even small events which impact their livelihoods, income, property, assets and sometimes their lives. Apart from social losses, occurrence of severe to super cyclone will result in huge economic losses to the people and all service providers.

Borough no III, VI, VII, IX, XII and XV having high number of slum dwellers (more than 1 lacs) are likely to be more affected besides the squatter settlements grown on the sides of Railways, canals and rivers. **Weak multi-storeyed** buildings in KMC area as mentioned in the Chapter. 2.5.2, are highly vulnerable. Very Weak/Dilapidated Buildings/ structures/ boundary walls (ref. Table No. 2.2.c) located in comparatively scattered inhabited areas in south western part, eastern part and Maidan area are susceptible to damage/overturning/collapse. The city on the west is bound by the river Hooghly. As such, an intense rainfall during a tropical cyclone over this region means a lot of runoff since almost entire city area has been paved with little or no scope for natural infiltration. Ironically, the terrain of the land slopes from the west, at the edge of the river Hooghly, towards the east. Further east are the scattered salty marsh lands crisscrossed by the different tidal streams and channels that are connected to the Bay of Bengal in the south. The important creeks here are the Matla, Bidyadhari, Kultigong, Ichhamati, Raimangal etc. Of course, a small portion of the city, mainly to the south and closer to the river Hooghly drains to the west. However, whether the eastern tidal creeks, or the river Hooghly to the west, both are susceptible to water level variations of the ocean — the Bay of Bengal. This rise of water levels in the rivers is due to either only tidal variations or that coupled with a storm surge caused by a tropical cyclone. Under such a condition, when a lot of water needs to be discharged off from the city, the outfalls are found to be blocked off by a high water level of the drainage creeks. This renders the city waterlogged for many hours at a stretch several times.

2.2.2 Earthquake

Earthquake is a destructive natural event which accounts to tremendous loss of life and property damage. The greatest challenge facing our country is to reduce the vulnerability of this uncontrollable unpredictable natural hazard of immense strength by having a greater understanding about its causes and effects.

Earthquakes are the sudden immense Jerks / Shaking / Rolling / Shocks in the earth's crust.

Earthquakes happen along "fault lines" in the earth's crust.

Earthquakes can be felt over large areas although they usually last for only a few seconds.

Earthquakes cannot be predicted -- although scientists are working on it

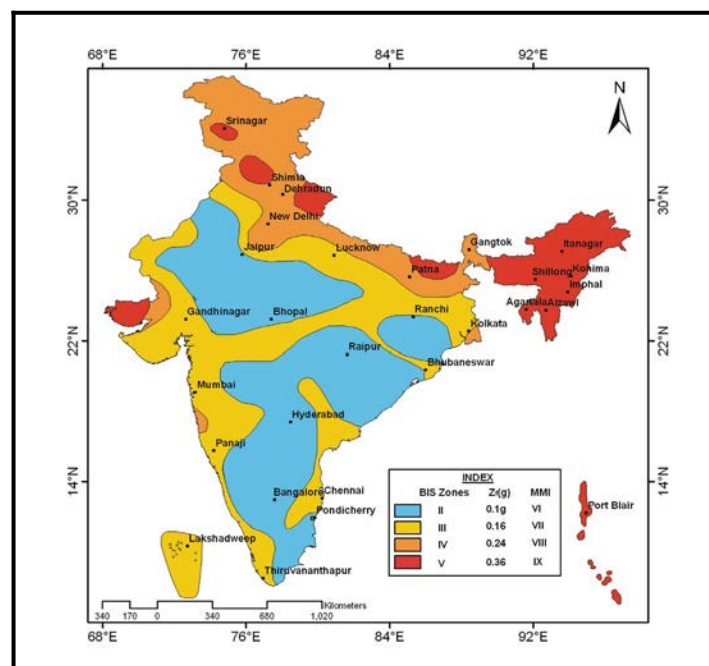


Fig.2.8: Seismic Zonation Map of India (BIS, 1893-2002)

The Indian sub-continent is highly prone to natural disasters. Floods, Wind, Cyclones, Droughts and Earthquakes are recurrent phenomena. From **Seismic Zonation Map of India** by the BIS it can be said that Kolkata lies in the boundary of Zone III and IV of this zonation map and thus the city with a very high population is under risk of earthquake.

India has highly populated mega cities including the capital in New Delhi situated in zones of high seismic risk. Geologically **Kolkata falls within Moderate Earthquake Damage Risk Zone (Zone-III) within very close vicinity of High Earthquake Damage Risk Zone (Zone-IV) of North and South 24 Parganas districts** as can be seen in the following **Vulnerability Map of West Bengal due to Earthquake (Fig.2.9)** published by BMTPC(Govt. of India). Over and above this, some human induced factors as unsafe buildings, unplanned urbanization, dense population and habitats have increased it's vulnerability to disasters to considerable extent.

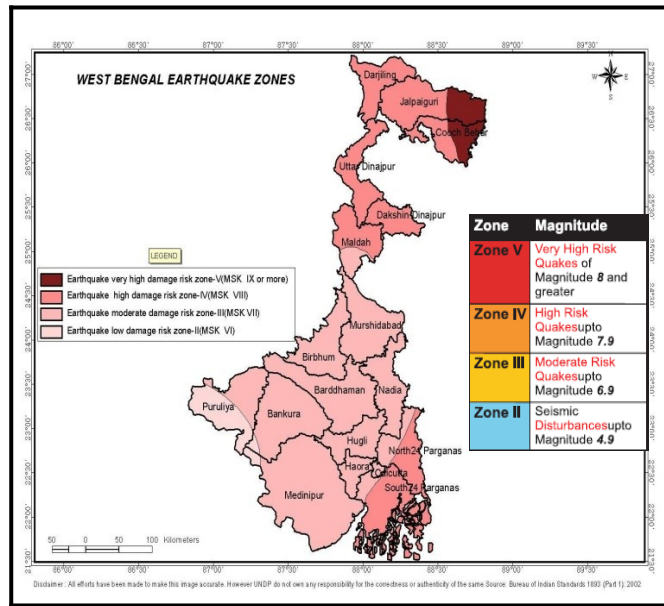


Fig. 2.9: Earthquake Hazard Vulnerability Map of West Bengal (Source: BMTPC, Govt. of India)

Table No. 2.8: Some significant Earthquake

Year	Epicenter		Location	Magnitude
	Lat (Deg.N)	Long(Deg.E)		
10 June 1869	25	93	Near Cachar, Assam	7.5
12 June 1897	26	91	Silong Plateau	8.7
15 June 1934	26.6	86.8	Bihar–Nepal Boarder	8.3
23 October 1943	26.8	94	Assam	7.2
21 August 1988	26.72	86.63	Bihar–Nepal Boarder	6.4
25 April 2015	28.147	84.70	Nepal	7.8
12 May 2015	27.7	86.63	Bihar–Nepal Boarder	6.4

Source: State DM Plan, Government of West Bengal, 2016

The past record of earthquake prove that *there is no place of complacency that earthquake will not happen here*. The seismic hazard microzonation map of Kolkata shows that the eastern part of Kolkata (salt lake , new town area) is falls under severe hazard level and nearly 50% of the areas shows in the map falls under high to severe hazard level and that means there is every possibilities that earthquake hazard can happen any time in future

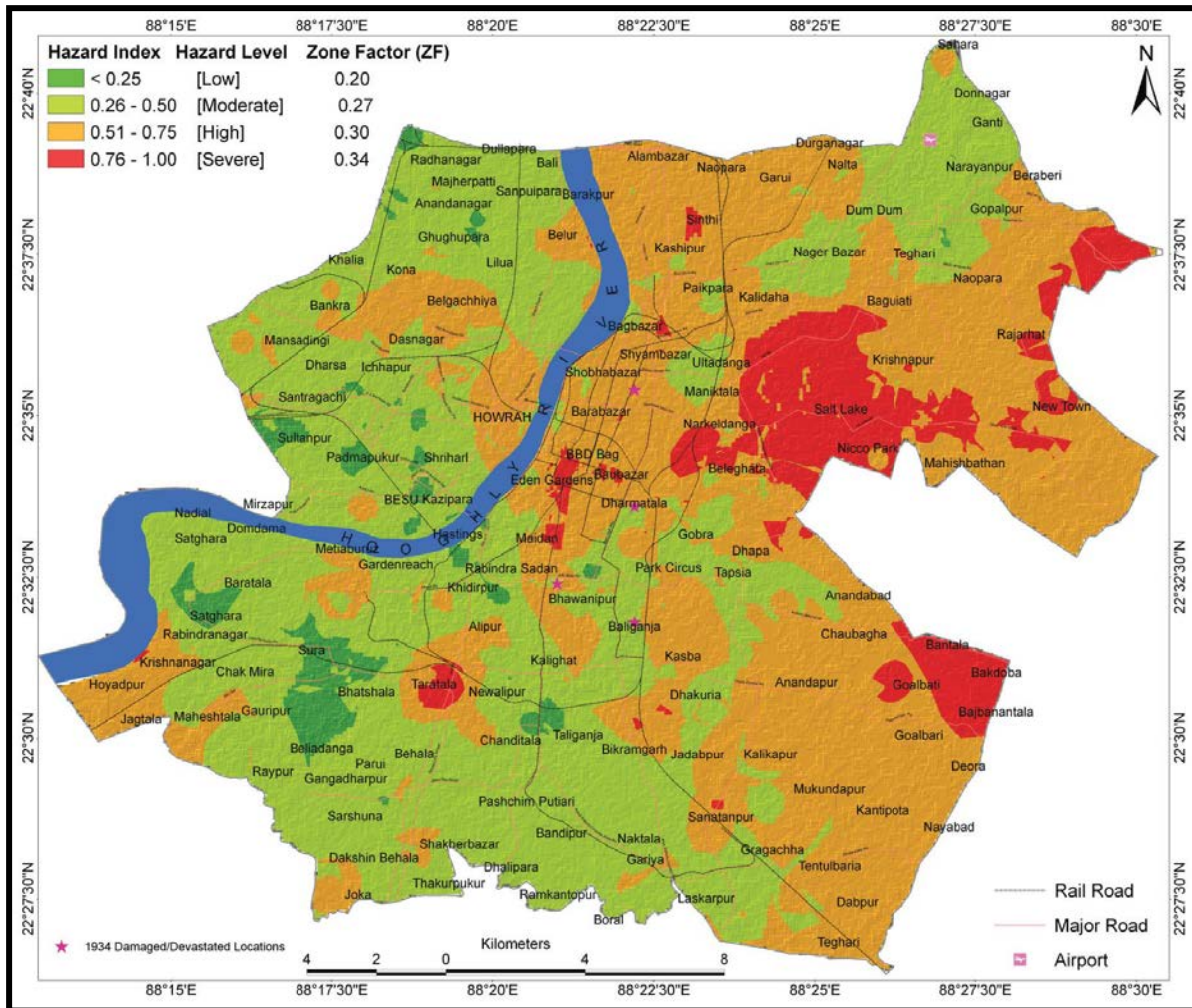


Fig.2.10: Probabilistic Seismic Hazard Microzonation map of Kolkata. Four broad divisions have been identified with hazard index (HI) defined as $0.75 < HI \leq 1.00$ indicating severe hazard condition in Saltlake, New Town areas, $0.50 < HI \leq 0.75$ indicating High hazard condition mostly in Barabazar, Anandapur, Belgachiya, Bagdoba areas of the expanding City, $0.25 < HI \leq 0.50$ indicating moderate hazard condition in the most part of South and West Kolkata, while $HI < 0.25$ presents a completely hazard free regime. The damage distribution due to the 1934 Bihar-Nepal earthquake of Mw 8.1 is mostly identified in the High to Severe Hazard zones (marked by a 'star mark')

Source: Report of Geoscience Division, Ministry of Earth sciences on Seismic Hazard, Vulnerability and Risk Microzonation atlas of Kolkata prepared by Prof. Sankar kumar Nath)

Moreover, natural hazards know no geographical or political boundary and any considerable earthquake originating in Bangladesh, a very nearby and high disaster prone area, will affect our state and state capital. The Himalaya Belt is now highly active in tectonic movement. A big tremor originating at Bihar-Nepal border may be dangerous for the entire North Bengal as also for the weak structures in Kolkata (there are 3046 dilapidated building in KMC)

2.2.2.1 Possible Impact of Earthquake in Kolkata

As per the results of an exercise carried out under Global Seismic Hazard Assessment Programme (GSHAP) which found 86 potential seismic source zones in India, Kolkata may experience earthquake up to about 6.5 in the Richter scale (Intensity VII-IX on the MM scale) whose energy release will be around that of a hydrogen bomb of 1 mega ton capacity. Another Indo-US study on the assessment of damages due to earthquake of the above magnitude in Kolkata envisages development of cracks in many buildings/ structures even which are considered by people to be fairly strong and collapse of many weak buildings. It roughly estimated that about 40-50% buildings in the city may be affected by a 6.5 Richter quake. The graphical representation of dilapidated building can give an approximate idea of the more vulnerable buildings in the city (Chapter.2.5.2).

The report of Ministry of earth Sciences, Govt of India on Seismic Hazard, Vulnerability and Risk Microzonation Atlas of Kolkata reveals that In Kolkata about 40% buildings fall under the high risk zone in and an around the central part of the City which is the oldest part of the Metropolitan whereas about 5-7% buildings are in the severe risk zone, most of which are located in the artificial non engineered filled-up regions. In the report the structural damage and its associated economic loss and casualty have been estimated for the maximum probable earthquake scenario of the city of Kolkata for a return period of 475years. From the report the extent of probable damage to transportation sector, buildings, medical services, education sectors etc due to major earthquake can be understand.

Like any other old city Kolkata has got a good number of old buildings many of which have crossed one or more centuries. Many buildings/structures constructed after independence were not built following proper engineering standards in regard to design, quality of materials and workmanship.

As the city is situated on young Alluvium of deltaic region containing mostly sand and silt in underground soil layers, the buildings (particularly which are not constructed on pile foundations or whose pile ends have not reached hard strata sufficiently) are also susceptible to settlement/tilting/overturning of foundations due to Liquefaction. Liquefaction may also result in coming out of water on the ground surface in some places.

An earthquake of considerable strength will highly affect the administrative functions and disrupt all essential services as transport (road and railways), power supply, water supply, health etc. and even sewerage & drainage of the city. The actual extent of damage due to earthquake however depends not only on the magnitude of the earthquake but also on various other factors e.g. depth of focus/hypocenter, type of soil through which shock waves will propagate, amplitude of S waves, types-stability-strengths of structures etc. It can be spelt

without any doubt that the city of Kolkata is not at all prepared now to face a damaging earthquake. Well coordinated effort for effective capacity building at all levels (policy/administration to grass root) is necessary. Earthquake being the most dangerous of all hazards for the city, preparedness for it will mean that for all other disasters.

2.2.3 Flood

Inundation of different areas of the city of Kolkata has become a regular incident in every monsoon since years. Heavy showers of only 1-2 hours duration cause flooding of Kolkata streets. In fact flood is a common hazard for the state. A list of large floods in the state is given below in Table No. 2.3.a.

Table No. 2.9: Records of large floods in West Bengal

Period	Description
1978	Major flood
1986	Flooding due to heavy rains in some areas of Kolkata , Hooghly, Howrah, 24-Parganas and Midnapore
1988	Monsoonal rains caused flooding in areas of Balurghat and Dinajpur lying under the purview of the Ganges and Churani rivers
1991	Flash floods caused damage 35,000 houses
1995	Flooding triggered by heavy rains caused erosion, severe agricultural damage and outbreak of diseases
1998	Monsoon rains caused flooding of the Ganges river
1999	Tropical cyclones caused destruction of an estimated number of 1500 villages. Floods due to brief torrential rains affected areas of Kolkata , Burdwan and Birbhum
2000	Besides flash floods triggered by incessant torrential rains, disaster is also accredited to the opening of sluice gates of dams. The fatalities counted to the tune of 1262, besides affecting millions of people.
2002	Flooding in Jalpaiguri, Cooch Behar and Jalpaiguri in north Bengal due to monsoonal rains. Flash floods swamped ten villages, causing four deaths and 11,000 displacements
2003	Monsoonal rains caused floods affecting the regions of Darjeeling, Jalpaiguri, Malda and Murshidabad Heavy monsoonal rains affected several districts
2005	Heavy rains caused floods in many areas. About 3000 coastal villages were inundated and 60,000 huts and many roads washed away.
2005	Heavy monsoon rains triggered flash floods and landslides
2006	The regions of Birbhum, Burdwan and Murshidabad were affected mainly from continuous monsoonal downpour
2006	Monsoonal rains and tropical cyclone-driven storms in the Bay of Bengal hit India and Bangladesh. West Bengal recorded 50 deaths, 300 were injured and 30,000 mud houses destroyed. Heavy rains left large parts of Kolkata city under water; subsequently 2000 people were evacuated from the city.
2007	The hazard affected Kolkata and several other districts. Eighty-three deaths were reported, and millions of people were marooned in 3000 villages in coastal areas of the state
2007	Heavy rain from tropical depression in the Bay of Bengal caused flooding

	leading to 51 deaths, and affecting 3.2 million people
2013	Moderate flood occurred in 4 Dist.

Source: West Bengal State Disaster Management Plan, 2016

Inundation of the city of Kolkata on a few occasions in every monsoon has become very common. Causes are almost same as discussed in the earlier chapter for Cyclone Risk. The causes for flooding may briefly be mentioned here again:-

1. The city topography reveals presence of saucer like low lying places which are easily inundated but require lot of time for bailing/draining out water. Pressure of population influx and administrative indifference since many decades led to improper land use and spread of habitation in low lands.
2. All the underground lines are combined sewers (carry both sewer and storm water). There is no separate arrangement for draining out storm water particularly when it is needed in the event of a high precipitation within a short time.
3. Most of the city drains are old which were designed to carry much less volume of effluents. With rapid rise in population and urban growth the drainage capacities were not augmented to carry increased volume of sewerage and storm water.
4. Most of the existing city drains are silted which has resulted in lowering of water retention and drainage capacities of those and increased time requirement for drainage of storm water.
5. The canals and rivers which receive sewerage/ storm water from the city drains are also heavily silted resulting in reduction of their water holding and water carrying capacities. Excessive siltation and consequent rise in their bed levels have invited additional problems of water level rise in them which causes back water thrust into the city drain lines.
6. Most of the said canals, channels and rivers are susceptible to water level variations of the ocean — the Bay of Bengal. Tidal water enters into these during high tides and storm surges. So, the coincidence of a heavy precipitation in and around the city catchment areas and tide water entry into the canals/ rivers increases drainage problems many fold.
7. Heavy rainfall in the upstream catchment area of the river Ganga or release of water from Farakka Barrage in monsoon causes rise in water level.

It may be observed that though the drainage system of the city of Kolkata, as designed by William Clarke, was based on a probable rainfall of a quarter inch (6 mm) of rainfall an hour, which is equivalent to about 6 inches (150 mm) of rainfall in a day, there have been

occasions when the rainfall has exceeded this amount leading to serious congestion of the storm disposal system leading to water logging in the city.

2.2.3.1 Flood- Prone Areas of Kolkata City

A list of Flood-prone areas of Kolkata city is given below:-

Table No. 2.10: Borough-wise List of Flood prone areas in the city of Kolkata

Borough	Ward No.	Water Logging Pockets
Borough - I	1	Gobinda Mondal Lane
	2	Sabji Bagan Bustee
	2	Dum Dum Road
	2	Kalicharan Ghosh Road
	2	Foara Bagan More (D. Gupta Road)
	2	Rajabagan Bustee
	2	South Sinthee Road
	3	Belgachia Bustee
	3	J. K. Ghosh Road
	3	Birpara Lane
	4	Raja Maninda Road
	4	Mitra Bagan Bustee (21, Dum Dum Road)
	4	Noongola Bustee (26, Dum Dum Road)
	5	Khelat Babu Lane
	5	Olai Chandi Mandir & Paresh Nath Temple
	5	Anath Babu Lane
5	Indra Biswas Road	
Borough – II	15	Crossing of N. B. Mallick Road and R. D. Street
	16	Sahitya Parishad Street
	17	Hari Ghosh Street
Borough - III	14	Satkari Mitra Lane
	29,30	Narkeldanga Main Road
	30	Sir Guru Das Road
	30	Dhan Debi Khanna Road
	31	Jogouddyan Lane Crossing of S. K. Daw Lane
	32	Bagmari Road (beside E.S.I. Hospital)
	31,32	Manicktala (Underpass)
	34	Dr. Panchanan Mitra Lane
	34,35	Peary Mohan (Sur Garden Lane)
	35	Haromohon Ghosh Lane
35	Kabi Sukanta Sarani	
Borough - IV	25	Tarak Paramanick Road
	25	Muktarambabu Street
	27	Sukia Street
	38	Keshab Sen Street

	38	Amherst Street
	38	Bechu Chatterjee Street
	39	Vidya sagar street
Borough- V	39	Rabindra Sarani
	40	Surya Sen Street
	40	C. R. Avenue near Md. Ali Park
	40	Patua Tola Ln.
	40	Ramanath Majumdar St.
	40	Raja Rammohan Sarani & Narasingha Ln.
	40	College Row
	40,49	Bankim Chatterjee Street
	41	Muktaram Babu St.
	41	Madan Mohan Burman St.
	41	C.R.Ave.(From Mukta Ram Babu St. to Madan Mohan Burman Street)
	42	Rabindra Sarani (from 155B to 145B Rabindra Sarani)
	42	Brabourne Road and Strand Rd crossing
	43	C. R. Avenue (near M.G. Road) Eastern Flank
	43	C.R.ave.(From Syed Sally Ln. Prabhat Cinema Hall to Tara Chand Dutta st.)
	44	Amherst Street
	44	New CIT Road (from Srinath Babu Lane to Phears Lane) & Phears Ln. (from New CIT Road to Moulana Saukat ali St.)
	44	Sunyat Sen st. (from 22 Chata Wala Gully to Jn. Of R.Sarani) & Rabindra Sarani (from jn. Of Sunyat Sen St. to jn. Of B.B.Ganguly st. Eastern side)
	44	C.R.Ave.(from 63, C.R.ave. to 77,C.R.ave) & sun Yat Sen St. (from 77 C.R.Ave. to Jn. Of Phears Lane)
	44	Zakaria St. (from Nabab Badaruddin St. to C.R.Ave.)
	44	Madan Mohan Sen St. & Krishna Behari Sen St.(from M.G.Road to Anagarik Dharmapal St.)
	44	Nil Madhab Sen Ln. & Bhawani Dutta Ln. (from C.R.Ave. to College St.)
	45	B. B. D. Bag near Writers' Building
	45	Lalbazar St. (from Pr-20 to 18 Lalbazar St.)
	45	R.Sarani (from Pr-18 to 2 R.Sarani)
	45	Radhabazar St. (from P-36 India Exchange Place to 18, Lal bazaar st.)
	45	Lyons Range
	45	Kiran Sankar Roy st. (from Pr. 8/2 to 2/1 Council House st.)

Borough - V	48	B. B. Ganguly Street
	49	Baithakkhana Road (from Pr.1 to 24 M.G.Road)
	49	Scott Ln. (Crossing of Raja Rammohan Sarani to B.K.Rd.)
	49	Akhil Mistri Ln. (from Pr-1 to 124)
	49	Rajani Gupta Row (from 5, Akhil Mistri Ln. to 60, Akhil Mistri Ln.)
	49	Raj Chandra Sen Ln. (37 Scott. Ln. to 60, Akhil Mistry Ln.)
	49	Ram Hari Ghosh Ln. (15/A Raja Ram Mohan Sarani to 40, Rajani Gupta Row)
	49	Nil Moni Ganguli Ln. (from 4/2 Raja Ram Mohan Sarani to 9, Rajani Gupta Row)
Borough - VI	46	Chandni Metro Station
	46	Jn. Of Jawaharlal Nehru Rd. and S. N. Banerje Road (near Big Bazar)
	46	Profulla Sarkar Street (near A.B.P. & Pratidin)
	47	C.R. Avenue near Khadi Bhawan
	47	G.C. Avenue (Transport Gali)
	52	Karim Boksh Lane
	52	Collin Street (junction of Karim Boksh Lane)
	55	Ananda Palit Road
	55	46, Middle Road (Bye Lane)
	55	Sambhu Babu Lane
	55	Canal Street
	55	2A, 2B, 2C Chatu Babu Lane
	54, 60	Tanti Bagan Lane
	54,60	Anjuman Road (near Bell Masjid)
	61	Elliot Lane (portion)
	61	Ripon Lane (portion)
62	1 to 10 Alimuddin Street	
Borough - VII	58	Pulin Khatick Road
	58	Seal Lane
	58	11, Tangra 2nd Lane
	58	Arupota, Durgapur, Ananta Badal Village
	63	Camac Street(Portion)
	63	A. J. C. Bose Road near Mintu Park
	65	Iron Side Road
	65	93, Tiljala Road
	65	Tiljala Masjid Bari Lane
	65	Ballygunge Park
	66	Sridhar Roy Road
	66	Chowbhaga Road (Portion)
66	Raicharan Ghosh Lane	

Borough - VIII	70	Woodburn Road
	70	Judtice Dwaraklanath Road
	70	Justice Chandra Madhab Road
	70	Heyshyam Road
	72	Ramesh Mitra Road
	72	Townsend Road
	86	Dover Terrace
	87,90	Deshpriya Park
	90	Panchanantala Lane
	90	South End Park
	90	Kankulia Road
Borough - IX	74	Alipore Park Place
	74	Body Guard Lane
	76	Padmapukur
	77	Dent Mission
	78	Bhukailash Road
Borough- X	81	New Alipore Bl. 'J', 'G', 'D'
	81	Sahapur Colony
	81	2B, Chetla Road
	89	Sultan Alam Road (KMDA Housing Project Area)
	91	B.B. Chatterjee Road
	91	N. K. Ghosal Road
	91	Kumar Para Lane
	91	Kalu Para Lane
	91	Bosepukur
	91	Jahura Bazar Lane
	91	N.C. Chowdhury Road
	91	Kamala Park
	92	Selimpore(Baudir Dokan)
	92	Tanupukur Rd.
	92	Dhakuria Station Road near A.T. Chatterjee Market
	92	Sahid Nagar near Bypass Connector
	92	Najir Bagan More
	93	Lake Gardens (Punjabi Garriage, Gobindapur Rd.)
	93	Jodhpur park (Infront of E.D.F. Hospital, Children Park area)
	Borough - X	94
94		P.G.M Saha Road
94		Uday Sankar Sarani
95		P.G.H. Shah Road
95		Bikramgarh
95		New Bikramgarh
96		Ibrahimpur Road
96	Bijoygarh Jadavpur East Road	

	98	4,5 Netaji Nagar
	99	3, Vidyasagar Colony (Nr. Lowland Kalibari)
	99	Near Pre. No. 65/1D, 65/1F, Jorabagan Road
	99	Near 62/8/1A Jorabagan Road (opp. /infront of Tarun Sangha Club)
	100	Naktala 2nd Scheme
Borough - XI	103	Modern park
	103	B.M. Mondal Road
	104	Bank Plot
	104	Jhil Road
	110	Southend Garden
	110	Briji West (Kadam Tala) A.T. Naskar School
	111	Sardar Para
	111	Junction of Charu Nagar and Pragati Park
	111	Rabindrapalli (D, E & F block)
	111	Ramkrishna Pally
	111	Malli Para
	112	Subhas Sarani
	112	Bandeali Palli
	112	Natun Bazar
	112	Pora Khola
	112	Naskarpara, Seikhpara
	113	Bansdroni Govt. Colony
	113	H.L. Sarkar Road
	113	Vivekanada Park
	114	Bagan Para
Borough - XII	101	B. P. Township (HB Block, CUG)
	101	Rabindrapalli (C Block)
	105	8 No. Sahid Nagar
	105	1,2 Sucheta nagar
	105	3, Jadav Garh
	105	Studio Lane
	105	Ghoshpara
	105	Kabardanga
	106	Sarat Park
	106	Sreehari Palli
	106	Eastern Park
	108	Hossenpur 2nd Lane & 4th Lane
	108	Martinpara, Gulsan Colony
	109	Sreenagar Main Road
	109	Purbalok
	109	Buderhut
109	Ganga Nagar	
109	Jumana Nagar	

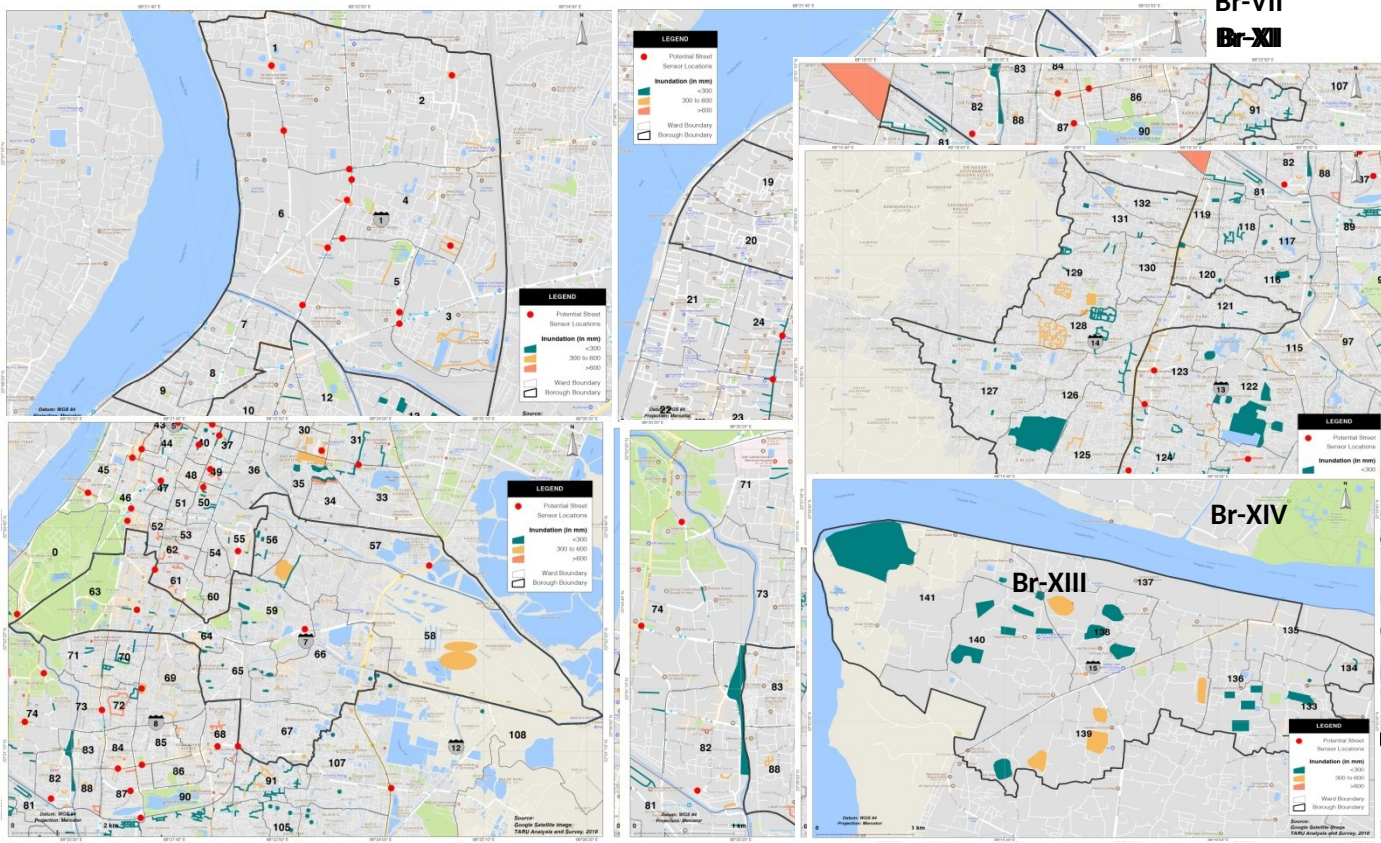
	109	Rajapur D Block
	109	Nayabad Main Road
	109	Sammilani Park
	109	Sahid Smrity
	109	6A Mukundapur
Borough - XIII	115	Hafiz Md. Ishique Road near Masjid
	115	Taramoni Ghat Road (part)
	116	P.N. Mitra Lane (Dhopar Math)
	117	Gobarjhuri Bustee (part)
	117	Indirapally Bustee (part)
	118	S.N. Roy Road (Banstolla Bustee)
	119	Mondalpara Bustee
	119	Silthakur Bari Road (part)
	120	Co-Cala Bagan Road
	122	East Park
	122	Rabindra Abashan
	122	Surya Sen Pally
	122	Doctor Bagan
	122	Ram Krishna Nagar
	122	Sukanta Pally
	122	Arabindo Pally
	122	Mission Dhalli Para
	122	K.K. Road (near Masjid)
	122	Ishan Ghosh Road (near Basusree Bagan & Debnath Para)
		121
121		Bhasapara, Ananda Pally, Sima Pally, Nabapally
121		Mondalpara(portion)
127		Bombai Bagan(Roy Dighi)
127		Joyasree Park
127		Upanaragi
128		Basudevpur Majidpara
128		L.N.Motilal Road(Malir Math)
128		Santra Para
128		Beni Master Lane
128		Shyam Sunder Pally(1st & 2nd bye lane)
129		Mahendra Banerjee Rd. (Adjoining Begor Khal), (Khetra Moni School), (Jagarani),Sreema Pally
129		Jayrampur jala Road(Kundu Auto Surrounding)
129		Sen Pally
129		2No,3No,4No, Rabindra Nagar (Portion)
129		Goala Para Road
129		B. G. Press Colony
129	Nabapally Area	

Borough - XIV	129	Petlipara	
	129	Parui Das Para	
	129	Adarsa Nagar	
	130	Bakshi Bagan	
	130	Becharam Chatterjee Road(Sitala Mandir)	
	130	Ramkrishna Sarani(Vivekananda Pally)	
	130	Brahma Samaj Road(Mallick Colony)	
	130	Dwarik Mukherjee Road(Jelepara)	
	130	Netaji Subhas Road	
	131	Dwijen Mukherjee Road	
	131	Subhas Marg (Masala Bari)	
	131	Santi Pally	
	131	M.I.D, Road (Pallysree Pally)	
	131	Swamiji Sarak	
	131	Padmasree Pally	
	132	Avoy vidya Lankar Road (Near Sitala Mandir)	
	132	Upen Banerjee Road (Near Govt. Qtr.)	
	132	Bishalakshmitala Road(51 no Bustee)	
Borough - XV	133	Village Road	
	136	Dewan Bagan	
	136	Manasa Row	
	136	Mali Bagan	
	136	Fathepur 1st Bye Lane	
	136	Kapi Bagan	
	138	Admajola	
	138	Dakait Bagan	
	138	Chatkal Bustee	
	141		
	139	Karbala Road	
	139	Behala Colony and P.O. Lane	
	140	Satghara Road	
	141	Badartala Bus Stand	
	141	Kanchan Tala	
	141	Waris Nagar, Ayub Nagar	
		123	Prasanta Roy Road
		123	Kailash Ghosh Road near Dharapara
123		Kailash Ghosh Road near S.T.P.	
123		Ishan Ghosh Road	
123		Bata Colony	
123		Santal Para	
123		Near Janakalyan	
123		Near Silpara crossing of James Long Sarani	
123	Santosh Roy Road and James Long crossing towards Motilal Gupta Road		

Borough - XVI	124	Sahid purnendu nagar
	124	Mukunda Das Pally
	124	Das Para Milani Sangha
	124	Netaji Pally
	124	Vidya Sagar Sarani
	124	64 Pally
	124	Pragati Pally
	124	52 Pally
	125	Bhattacharjee Para near Venus Club
	125	Kadamtala near CESC Transformer
	125	Paner Ara
	125	Dakshin Para Jubak Gosthi
	125	Rajani Banerjee Road
	125	Bakhra Hat Road
	125	Marapota near Aurobinda Nagar
	125	2, Bachhar Para
	125	Kenaram Ganguly Road
	125	Baba Thakurtala
	125	Joykulla Molla Road
	125	Ananda Nagar
	125	Panch Maszid Road
	125	Pally Mongal Colony
	125	Padma Pukur near Sukanta Park
	125	Amritalal Mukherjee Road(Jora Mandir)
	125	S.B. Banerjee Road(L.I.C. Bazar)
	125	1, Bachar Para
	125	D.H.road opposite State Garage
	126	Kalicharan Dutta Road
	126	Ho Chi Min Sarani near Anjuman School
	126	Barisha Library near Dwadas Mandir School
	126	Parish Para near Doglas Ground
	126	Smashan Kalitala Road near Kali Mandir
	126	Narayan Roy Road near Marriage Hall
	126	K. K. Roychoudhury Road near Chandi Mandir
	126	Brajamani Debya Road near Basudebpur Club
	126	Dakshin Behala Road near 7 Star Club
	126	Bakultala Road near Dutter Math
	126	Dakshin Behala Road near Akhtar Builders
	126	Jadab Ghosh Road near Tara Builders
	126	Subhas Pally near Sarkar Hat Lane
126	Ananda Nagar C-Block	
126	Basundhara Park near Wood Furniture	
126	Kshudiram Pally near Club	
126	Talpukur Road near Lokenath Bhawan	

Borough - XVI	126	Shib Mandir near Silpara	
	126	Mahamaya Math	
	126	Talpukur Road	
	142	Udayachal	
	142	Bagan Para	
	142	Purbayan Abasan	
	142	Brick Field Road	Br-IV
	142	Ashabari	
	142	Rong Para (Ramchandrapur)	
	143	Prantik Phase I	
	143	Prantik Phase II	
	143	Prantik Phase III	
	143	Dhalipara near STP	
	143	Swapnakunja Abasan (Haridevpur)	
	143	Dhali Para near Masjid	
	143	Aurobinda Nagar	
	143	Nazrul Sarani	Br-VI
	143	Mission Para	
	143	22 Bigha	
	143	Balaka	Br-IX
144	Diamond Park		
144	Green Park		
144	Vivek Villa		
144	Swamiji Abasan		
144	Barui Para		
144	Hanspukur		

Source: Sewerage and Drainage Department, KMC



Br-VIII
Br-VII
Br-XII

Br-IV
Br-XIII
Br-XIV
Br-XI

Boroughs of

Br-XIV
Br-VI

With

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KMC area. Introduction of automatic pumps will be very much helpful to minimise the water logging problem of the city.

Other than 73 Pumping station of KMC there are another 13 drainage pumping stations under other departments has been listed below.

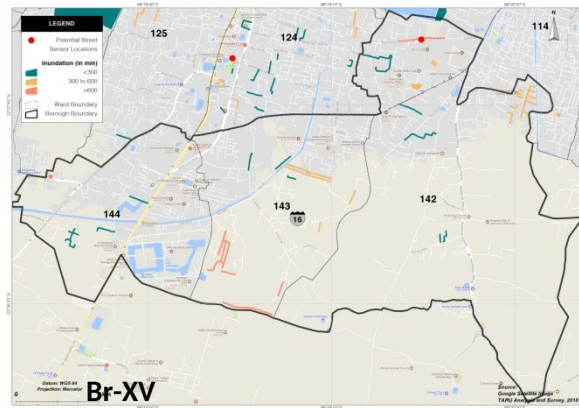


Fig. 2.11: Waterlogging Map of 16 KMC

the increase of pumping station numbers of pumps in KMC problem of water logging has decreased from the previous the Br-XIV Br-VI 73 pumping stations

sewage treatment plant in

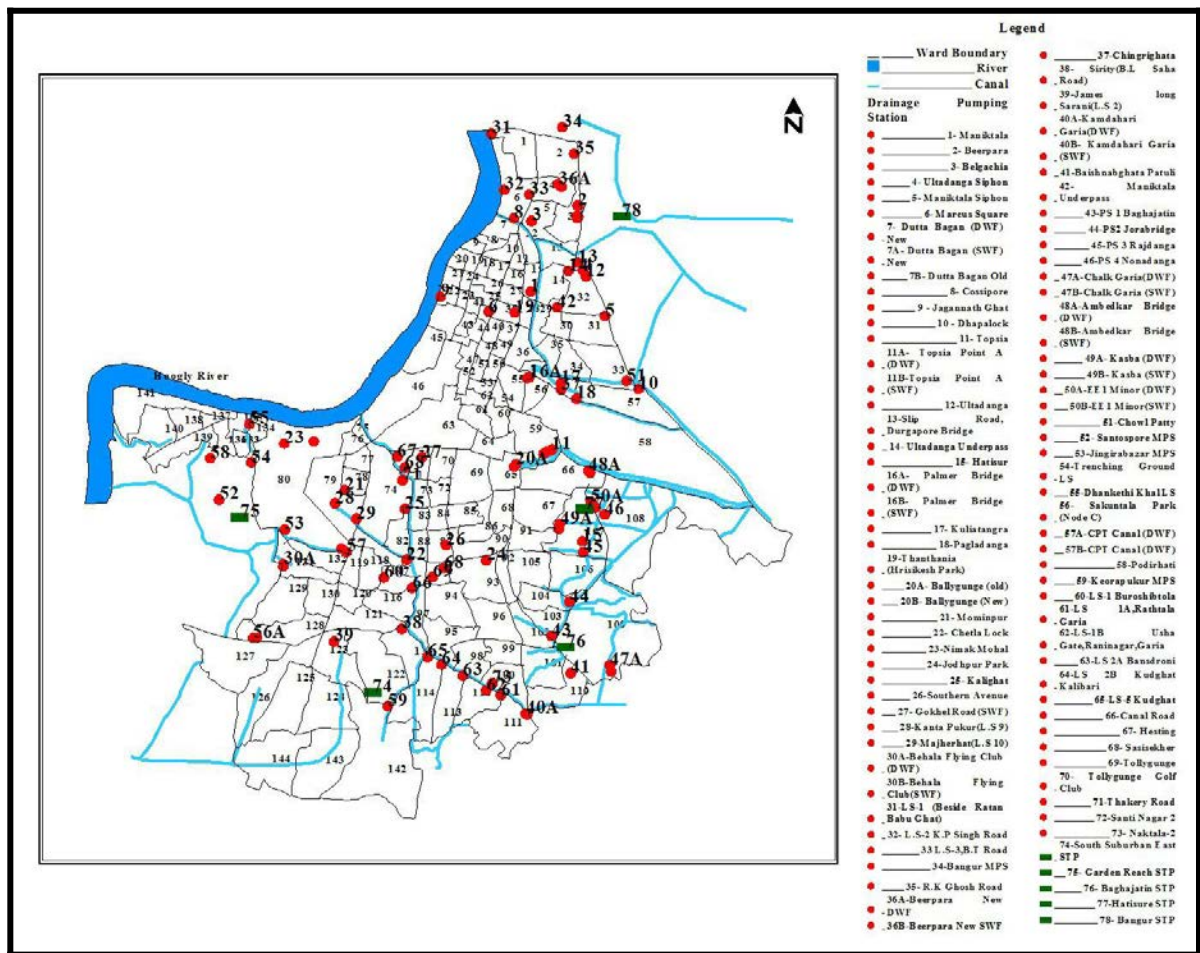


Fig. 2.12: Map of the Drainage Pumping Stations and Sewerage Treatment Plants of KMC

Table No. 2.11: List of Pumping stations of Different Departments in KMC area

Name of the Department	No of Pumping stations	Name of the Pumping Stations
Irrigation and waterways (I & W)	04	<ul style="list-style-type: none"> • Kulti PS • Chowbagha PS • Keorapukur PS • Manikhali PS
Public Health Engineering (PHE)	01	<ul style="list-style-type: none"> • Bangur PS
Kolkata Metropolitan development Authority (KMDA)	04	<ul style="list-style-type: none"> • Noapara PS • Galiff Street PS • Chingrighata PS (Canal South Road) • Anandapur PS
Kolkata Metropolitan Water and sanitation Authority (KMW&SA)	04	<ul style="list-style-type: none"> • Gouribari PS • Maniktala PS • Narkeldanga PS • Muraripukur PS

Source: Sewerage and Drainage Department, KMC

2.2.4 Fire Hazard

Due mainly to the ignorance of people, damages/losses due to Fire are common in city life. In most of the cases fire becomes a considerable hazard in the congested market places where inflammable articles are used, sold or stored violating the related rules. Domestic fire is also very common but the losses are comparatively small. In both the cases of domestic or commercial fires, small fire starts from short circuit or negligent act of some person and then spreads out to adjoining places giving it a big shape. When fire becomes bigger and uncontrollable, emergency evacuation of men as well as materials becomes necessary but it also gets disturbed or becomes impossible due to want of adequate spaces or alternative escape routes in the building. So, risk of disaster due to fire remains inherent in the very construction or use of the building in most cases apart from the fact that preventive tools as fire extinguishers, sand, gunny bags etc. are not kept ready in hand as preparedness measure. Notwithstanding occurrences of so many fire disasters, even emergency contact numbers of Fire Services Stations are not kept by majority of the people.

Table No. 2.12: 10 Pumps or above Fire Incidents under W.B.F & E.S in the Last 5years

Division	Date	Address	Details of fire
	10.04.15	New secretariat Building, 1 Suren sarkar Roy Road, 7 th floor	Chember of MIC Panchayet Dept.having official paper, AC machine, false cyling on fire,24 pumps deployed
	26.04.15	City Mart, 3A Humayun Place, New	3 rd floor, partially 1 st ,2 nd ,and 3 rd floor containing huge quantity of garments,leather

South Kolkata		Market PS	goods on fire, 26 pumps deployed
	18.05.15	S.S. Hogg Market, fish, Asloo Bazar, PS- New Market	Market (12000sq.ft.) containing potatoes, packing box on fire, 22pumps deployed
	26.05.15	482 Madoor daha, EM Bypass, Kalikapur	A laboratory of Bio medical section on 2 nd floor having AC machine, scientific apparatus on fire, 15 pumps deployed
	30.07.15	New Market Neli Sengupta Sarani, Kol-87	Several nos of garments shop having AC machine, furniture on fire, 15 pumps deployed
North Kolkata South 24 Pargana s	02.02.15	Bank of india, Raja Ram Mohan sarani	Huge quantity of plywood, timber, motor cycle on fire, 31 pumps deployed
	13.02.15	Eureka forbs Ltd. P-41 Goragacha, Kol-18	4 nos of godown of huge quantities of tea, utensils on fire, 26 pumps deployed
	13.01.16	Brace Bridge Premises	Huge nos of basti covering area of 15000 sq. ft. on fire, 13 pumps deployed
	10.02.20 16	85, Princep Street. CESE receiving and distribution centre	Inside CESE sub-station high tension cable line,switch gear, transformer on fire,14 pumps deployed
	21.03.16	Ballygunge Science College, Calcutta University complex	A museum room containing chemicals, furniture, ppers, AC machine on fire, 11 persons rescued safely, 13 pumps deployed
	19.04.20 16	56, Sayed Amir ali Avenue, Kol-19	7 nos of car parked in basement of B_6 storied building on fire, 11 pumps deployed
	02.10.16	Krishna Metallic Pvt. Ltd. 32/1 Lenin Sarani. PS- New Market	Diff types of Aluminium frames, furniture, electrical fitting on fire, 25 pumps deployed
South kolkata	21.11.16	Top floor of Ronald Ross Building,SSKM Hospital	1 central library room having computers, electronics goods on fire, 19 pumps deployed
	04.12.16	South City Mall,375 Prince Anwar Shah Road. PS-Jadavpur	False cyling of food court on fire, 23 pumps deployed
	29.01.17	15 South Sealdah/road. PS- Entally	A factory shed (10000 sq ft) having thinner, tar, burnish machinery on fire, 19 pumps deployed.
	30.03.17	Hotel Golden Park, 14 HoChimin Sarani	A server room at 1 st floor containining chair table adjacent 2 hall rooms top floor on fire, 31 boarder rescued, 2 person died by smoke , 12 pumps deployed.
	25.04.17	5 Star Market, 26 Karl marks Sarani	2 garments shop on 5 th floor having readymade garments, computers furniture, AC machine on fire, 11 pumps deployed
South Kolkata	20.07.17	12 Pritoria street, PS- Shakespeer Sarani	In a 3 rd floor office having office records, furniture, computers on fire, 10 pumps deployed
	04.08.17	Office of Emami,781	An office (10000sq ft) having computer,

North Kolkata		Anandapur	furniture, false cling on fire, 12 pumps deployed
	27.02.18	3 Amartala Lane. Kol-1	A 3 storied building containing umbrella, leather bags, plastics bags on fire, 39 pumps deployed.
	17.04.18	58/1 Ballygung Circular Road Kol-19	A G+14 Storied building along with household articles on fire. 10 pump deployed. One male baby injured
	11.05.18	Jeevan Parkash 16,C.R Avenue kol-72 P.S Bowbazar.	An office having computer, server, A.C Machine Furniture and office paper on fire. Fire out. 11 pumps deployed.
South Kolkata	23.05.18	37 B A.J.C Bose Road kol-17	Huge quantity of spare parts involved in fire. Fire out. 10 Pump deployed.
	12.06.18	One a Grant Street P.S New Market kol-13	A 2 storied building having household articles. Fire out. 10 Pump deployed.
	13.06.18	Robi Auto House 103 Park street kol-16	A room having garments, sari, A.C machine, False ceiling on fire. Fire out. 10 pumps deployed.
	15.10.18	98 D.C Dey Road Kol-15 P.S Tangra	A panting work shop with thinner, paint dram on fire. fire out. 10 Pump deployed.
North Kolkata	05.11.18	M/S Kotak Security Park,15 Park Street, P.S Park Street.	An office room with furniture, computer, paper and A.C On fire. Fire out. 10 Pump deployed.
	22.01.18	Dumdum Gorabazar Apartment, Dumdum Cantonment.	Approx 300 nos of shops in the market involved in Fire. Fire out. 10 jets used. 2 charred bodies received and handed over to Police. 22 pumps deployed.
	31.03.18	Calcutta Jute Mill, 94 Narkeldanga Main Road, PS-Phoolbagan, Kol-54.	The fibres of raw jute, waste jute and other jute materials on fire. Fire out, 8 jets used, None injured, 12 Pumps sent
	03.04.18	Singh Grinding Mill, 15 Krittibas Mukherjee Road, Kol-67.	A Spice manufacturing unit cum godown containing raw finished products on fire. Fire out , 6jets used, none injured , 16 pumps including BA Set sent.
	16.04.18	T K Automobiles , 5/5/1 Chavalpatty Road, PS-Beliaghata.	A garage containing different types of 4 wheelers on fire, Fire Out,5 jets used. 10 pumps deployed.
	04.07.18	244/2 A P.C Road, kolkata-6P.s Manicktala.	A G+4 storied flower mill Containing different machinery, wooden articles, wooden beam and deferent kinds of cylinder on fire. Fire out. 11 pump deployed.
	16.09.18	Bagri Market , 71 Bipla bi Rash Behari Bose road kol-1 P.S Bara Bazar .	A six storied building having 947 trading shop containing various kinds of articles on fire. fire out. 30 Pump deployed.
	03.10.18	Medical Collage and Hospital Main	Medicine, Bandage, cotton, cylinder in the ground floor on fire. Fire out. 11 Pump

South Kolkata		Building	deployed.
	20.01.19	161 B rash Behari Avenue, Kol-19, P.S Gariahat	A mixed occupancy building along with several numbers of shops containing clothing material, furniture, AC machine, false ceiling etc. on Fire. Fire out. 20 pumps sent, 4 jets used, None injured.
	14.04.19	Golam Md. Shah Road. Lords more	Several no's Of different kinds of hawker shop on fire. Fire out, 10 pumps deployed. None injured.
	26.04.19	60/A Jawhar lal Neheru Road. P.S Bhawanipore	On the 4 th floor of a G+5 storied mixed occupancy building various types of articles on fire. Fire out 12 pumps deployed. None injured.
	29.05.19	39 & 40 Rifle Range Road. P.S-Korya	Several no's of shops containing huge quantities of bamboo and wooden furniture etc. on fire. 18 pumps deployed. 10 jets used. None injured.
	16.06.19	Kapur's Hotel. 172 Lenin Sarani. P.S-Bowbazar	Several no's of rooms used as guest house on fire. Fire out, 10 pumps deployed.3 jets used. None injured.
	08.08.19	Eastyard, Under Circular Railway Station	10-12 slum house made of bamboo structure and tin roofing containing household articles on fire. Fire out, 10 pumps deployed. 4 jets used. None injured.
21.11.19	48A Park Street, P.S-Park Street. Kol-16	Second floor of G+5 storied mixed occupancy building containing several nos of garments shop on fire. Fire out, 3 jets used, 11 pumps deployed. None injured.	
North Kolkata	05.01.19	10 Armenian Street, Kol-1, P.s- Burrabazar	Huge quantity of cartoon box, PVC material, saree, Fancy material on fire. Fire out. 11 pumps sent, 4 jets used, None injured.
	08.06.19	Jagannath Ghat,Strand Bank Road. Kol-70. PS- North Port	Huge quantities of chemicals in drums and sacks and multi various articles on fire. Fire out, 8 jets used, 25 pumps deployed, None injured.
	13.07.19	Nandaram Market. P-4, New Howrah Bridge Approach Road. PS- Burrabazar. Kol-1	One garment shop segregated with two compartment along with another dress material shop on fire. Fire out, 20 pumps deployed. 3 jets used. None injured.
	06.12.19	TCI Freight, 83/1A Vivekananda Road, Kol-6	Basement of a godown containing various inflammable articles at a G+3 storied mixed occupancy building on fire. Fire out, 6 jets used, 22 pumps deployed. None injured.
South 24 Parganas	17.03.19	Aditya chemicals, 18/14, Chanditala main road, Kol-15	Same barrel loaded with thinner on fire. Fire out, 4 jets used, 11 pumps deployed. None injured.
North 24	03.08.19	Calcutta Jute Mill 93	A finished shed comprising of weaving

Parganas		Narkeldanga Main Road, PS-Phoolbagan, Kol-54	section, spinning and winding section with nos. of machineries and huge stock of gunny sheet on fire. Fire out, 11 pumps deployed. 6 jets used. None injured.
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Source: Department of Fire and Emergency Services, Govt. of West Bengal

Table No. 2.13: Fire accidents in the chemical (industrial) units of last 3 years

Year 2017					
Sl No.	Place of Occurrence	No of casualty	No of Injured persons	Actions taken	Amount of Compensation paid
1	15 South Sealdah Road. PS-Entally.	00	00		
2	Subarnarekha Agricultural Estate. 1/1 Taratala Transport Depot Road. PS-Taratala.	00	00		
3	Ashoka haoyai & shoes Pvt. Ltd. 147 West Chowbagha West, PS-Anandapur. Kol-105.	00	00		
4	Nice Rubber Industries Pvt.ltd. 11A New Tangra Road. Kol-15	00	00		
5	Danish Adil Enterprise, 12 Portugize Church Street, Kol-01. PS-Burrabazar.	00	3 CIVILIAN + 10 BRIGADE PERSONNEL		
Year 2018					
Sl No.	Place of Occurrence	No of casualty	No of Injured persons	Actions taken	Amount of Compensation paid
1	32/3/5 & 6 Topsia Road, Kol-39, PS-Tiljala.	00	00		
2	A/17 Bramhapur, Near Kheali Sangha, PS-Bansdroni.	00	00		
3	17 Metcafe Street.	00	04		
4	S, A. Enterprise, 29/1 Benia para Lane, PS-Beniapukur.	00	00		
Year 2019					
Sl No.	Place of Occurrence	No of casualty	No of Injured persons	Actions taken	Amount of Compensation paid
1	1 Chitpur Ghat Lane, PS- Chitpur.	00	00		
2	Jagannath Ghat, Strand Bank Road. Kol-70. P.S- North Port.	00	04		
3	Apex Product. A5 Gulsan Colony, Chowbagha West, PS-Anandapur.	00	00		

2.2.5 Other hazards

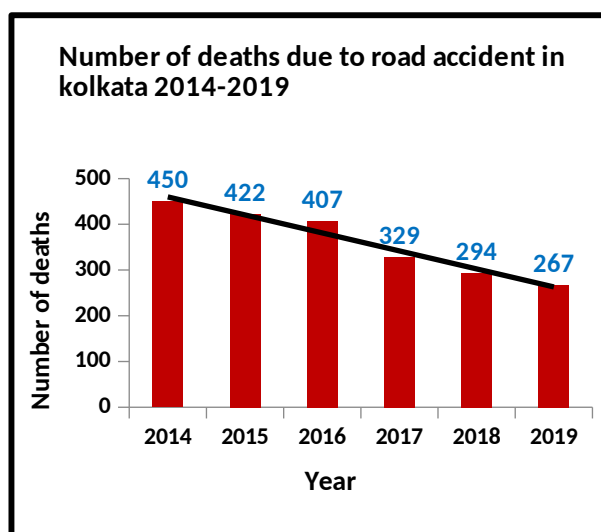
2.2.5.1 Road accidents

Traffic accidents, accidental deaths, injuries, damages to properties and associated social tension have become a matter of great concern in the large cities like Kolkata. From the statistics given in the following table it is apparent that road accident is a regular

phenomenon in the city and need more attention to minimise the number of injuries and deaths.

Table No. 2.14: Trend of Road Accidents

Year	Number of Road Accidents	Number of Deaths	Number of Injuries
2014	4561	450	3604
2015	4347	422	3329
2016	4104	407	3182
2017	3131	329	2559
2018	2663	294	2161
2019	2500	267	2004



Source: Kolkata Traffic Police

Fig. 2.13: Trend of Road Accident in Kolkata (2014-2019)

Police have identified a few accident prone locations in Kolkata on the basis of the intensity and frequency of the accidents. Most of the fatal accidents occur to pedestrians while crossing the roads. It is seen that BT Road, AJC Bose Road, Strand Road, EM By-pass, APC Roy Road are the most accident prone roads in Kolkata. It has been observed that unexpected incidents happen also in the flyovers due to over speeding.

2.2.5.2 Accidents in Metro Railway, Kolkata in Last 5 Year

Table No. 2.15: Accidents in Metro railway Kolkata 2015-2019

Sl. No.	Type of accident	2015	2016	2017	2018	2019
1	Fire	Nil	Nil	Nil	1	Nil
2	Unusual incident	Nil	Nil	Nil	Nil	1
3	Derailment	Nil	Nil	Nil	1	Nil
4	SPAD	Nil	Nil	Nil	Nil	1
5	Collision	Nil	Nil	Nil	Nil	Nil

- 1) **Fire accident (2018):** on 27.12.18 at about 17.02 hrs, KD-191 (AC-1) suddenly stopped at Km. 10/10 on up line between Rabindra Sadan and Maidan station due to breakage of 3rd rail current collector (TRCC) beam bogie no.2. the TRCC beam fell on the track causing fire at TRCC beam and Air Bello.

I. Deaths - Nil

II. Injuries - a) Grievous – 05 b) Minor – 07

- 2) **Unusual incident (2019):** On 13.07.2019 at about 18.40 hrs, an unusual occurrence took place at the time of train no. DK- 184 (MR-2) from KPSK station with passenger latching on the closed door of Coach no. 4007 from outside. The victim fell the tunnel at KM. 9.618 near park street station and eventually died.
- I. **Deaths** – 01 (one)
 - II. **Injuries** - a) Grievous – Nil b) Minor – Nil
- 3) **Derailment (2018):** on 23.11.18 at about 19.20 hrs, when rake no. Ac- 10 was being reversed from UP line to DN line via Y siding, the empty rake derailed with five wheel of coach no. 3419 (at KMDI Station)
- I. **Deaths** – Nil
 - II. **Injuries** - a) Grievous – Nil b) Minor – Nil
- 4) **SPAD (2019):** on 10.04.2019 at about 19.32 hrs, KD – 223 (Rake no. N- 7/18) failed to stop before S - 1063 (home signal of Noapara station) at “on” position.
- I. **Deaths** – Nil
 - II. **Injuries** - a) Grievous – Nil b) Minor – Nil

On 31.08.2019 due to the underground tunnel boring work for East-West metro railway project at Bowbazar area (Ward-84), approximately 76 premises situated at Durga Pithuri Lane, Sykrapara Lane and Gour Dey lane got affected. More than 700 persons were evacuated from the affected buildings.

2.2.5.3 Building Collapse

Like any other old city Kolkata has got approx 3046 number of old buildings many of which have crossed one or more centuries. Many people reside in these dilapidated buildings and any incident of collapse of these building can cause loss of human life. During rainy season the problem of collapse gets increased.



Photo: Incident of Dilapidate Building Collapse at Burrabazar (Source: NDTV)

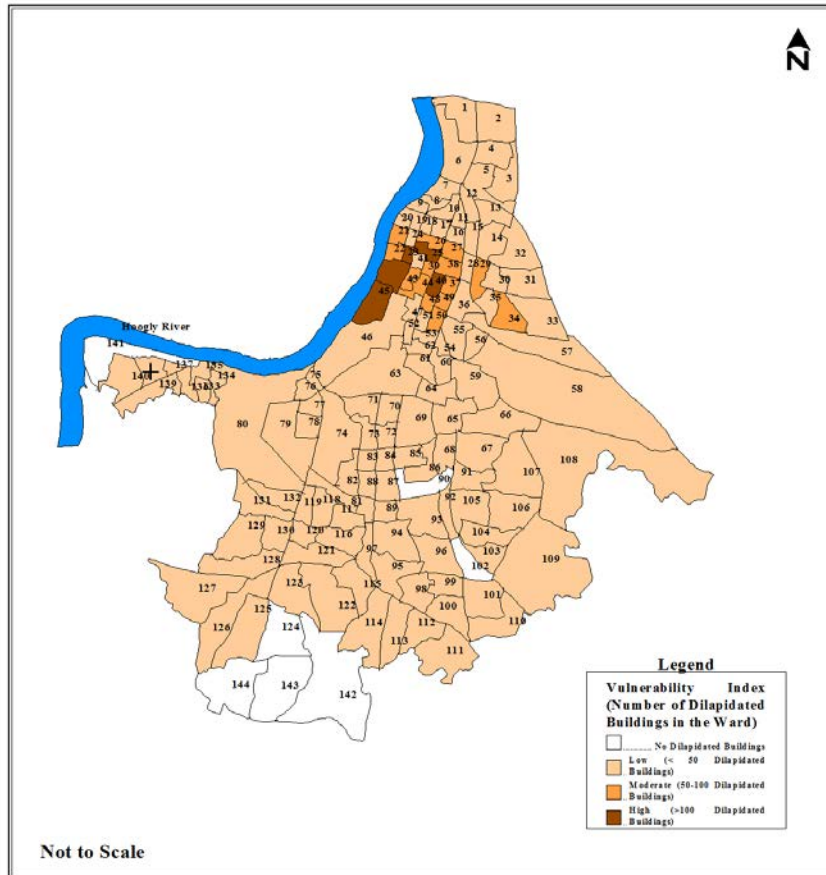


Fig.2.14:

Building Collapse Vulnerability Index Map of KMC Area (Data Source: KMC)

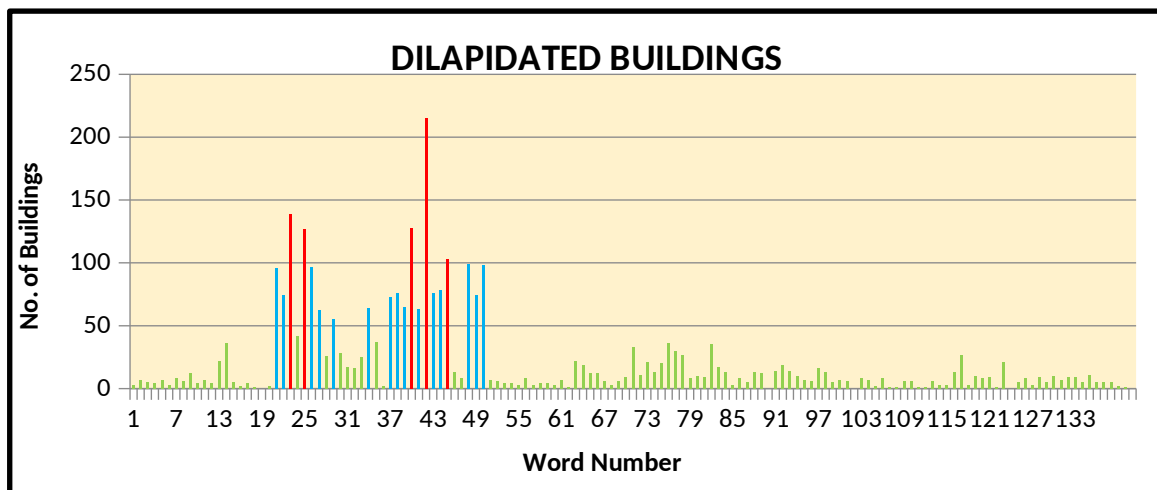


Fig.2.14: Dilapidated buildings of the KMC area

Data Source: Building Department, KMC

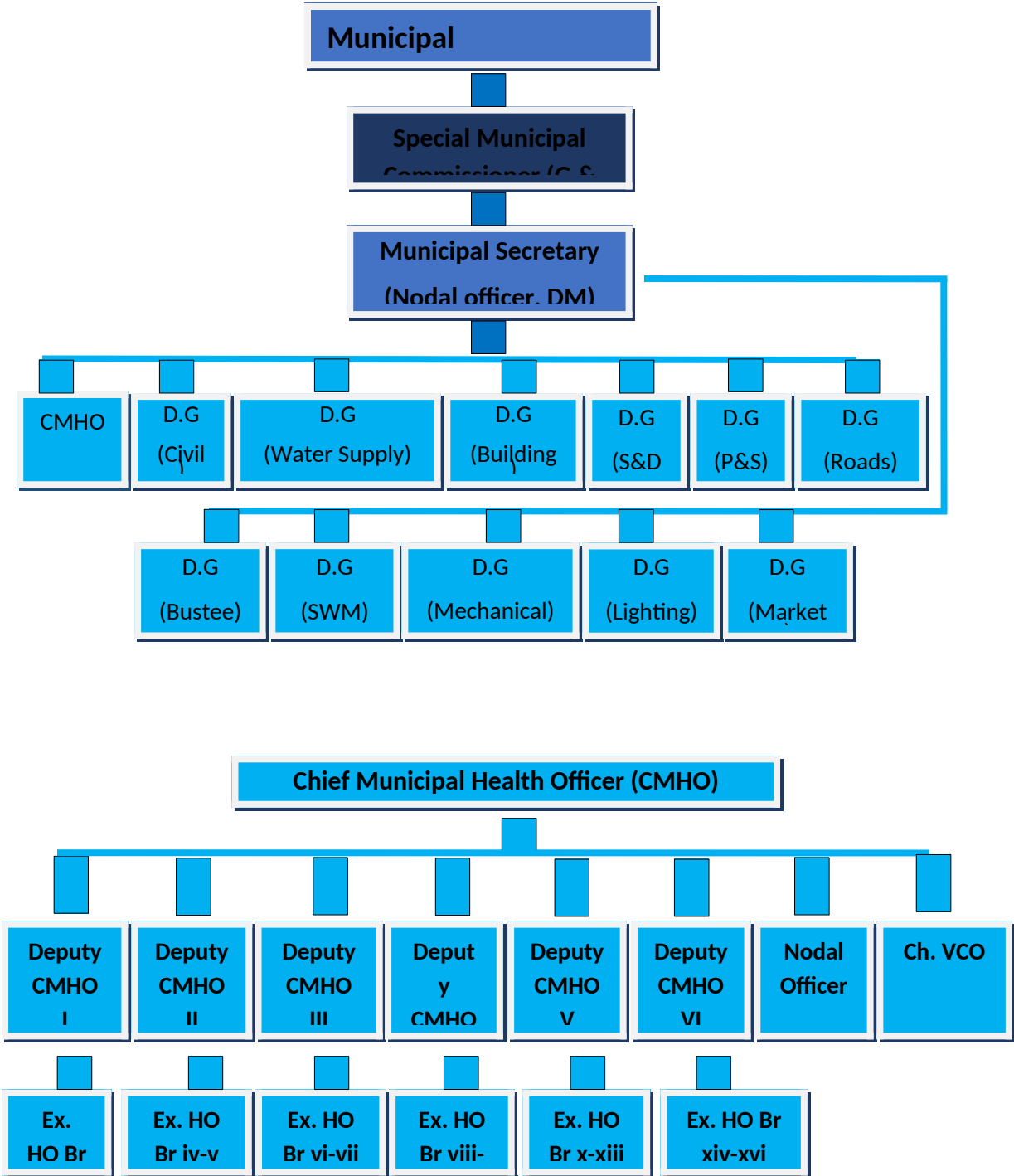
There are 3046 (approx) dilapidated building in the KMC area. The maximum numbers of dilapidated buildings (above 100 Nos.) has been observed in the ward number 23,25,40,42 and 45 respectively. It has been observed that the numbers of dilapidated buildings are more than 50 in 15 wards.

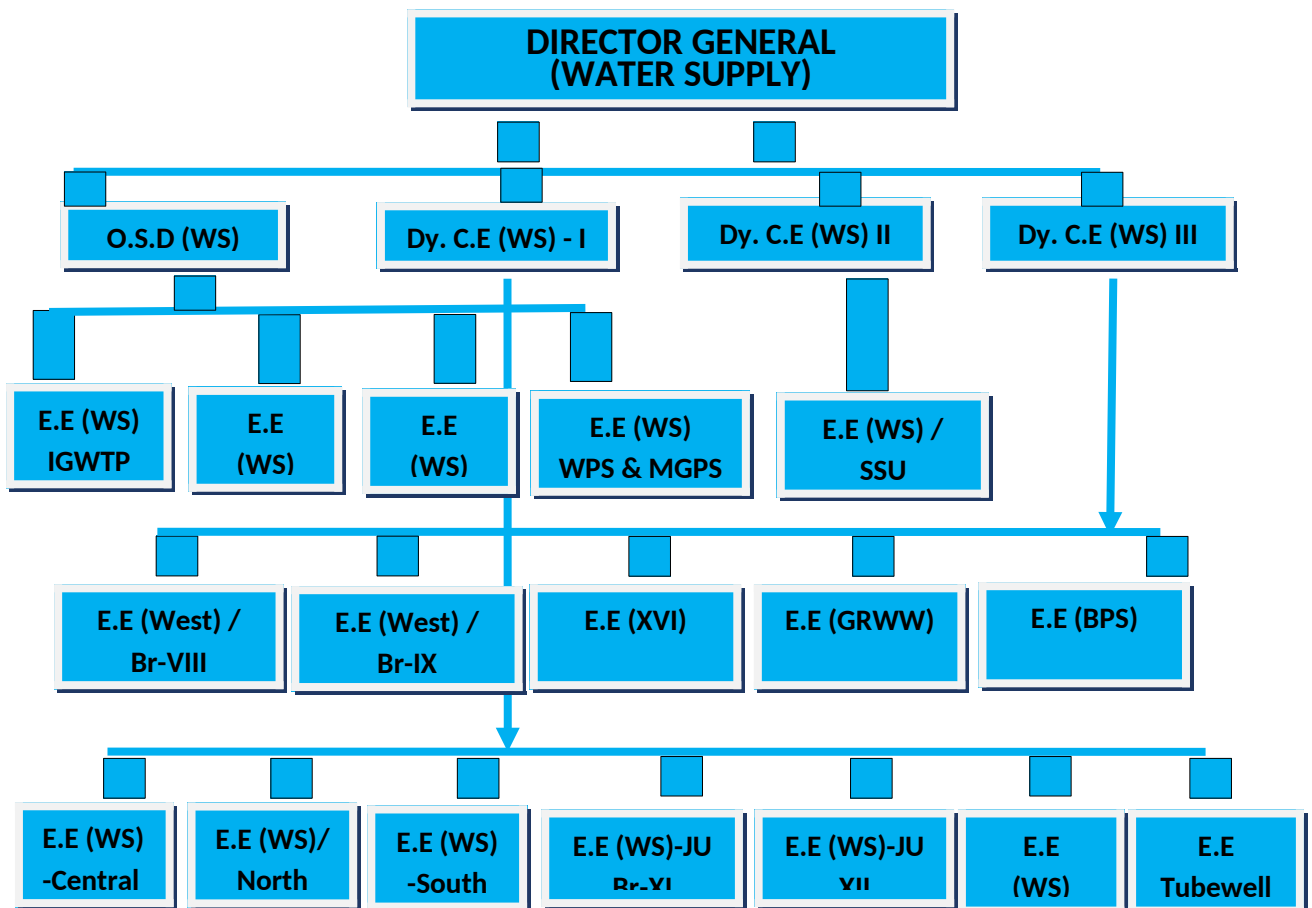
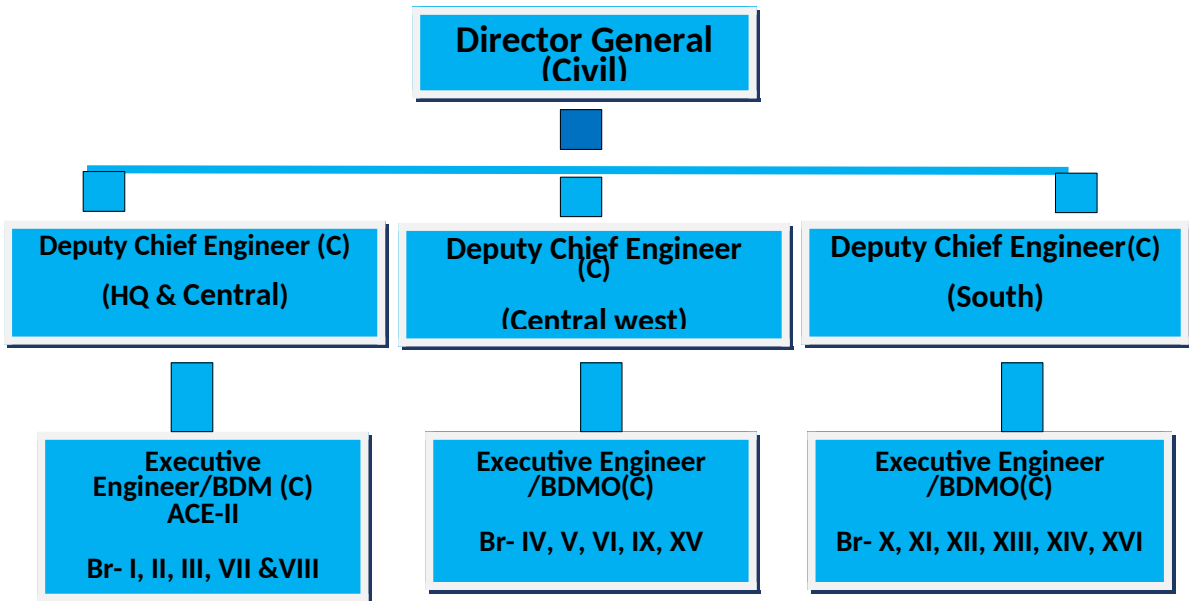
Capacity and Resource Analysis

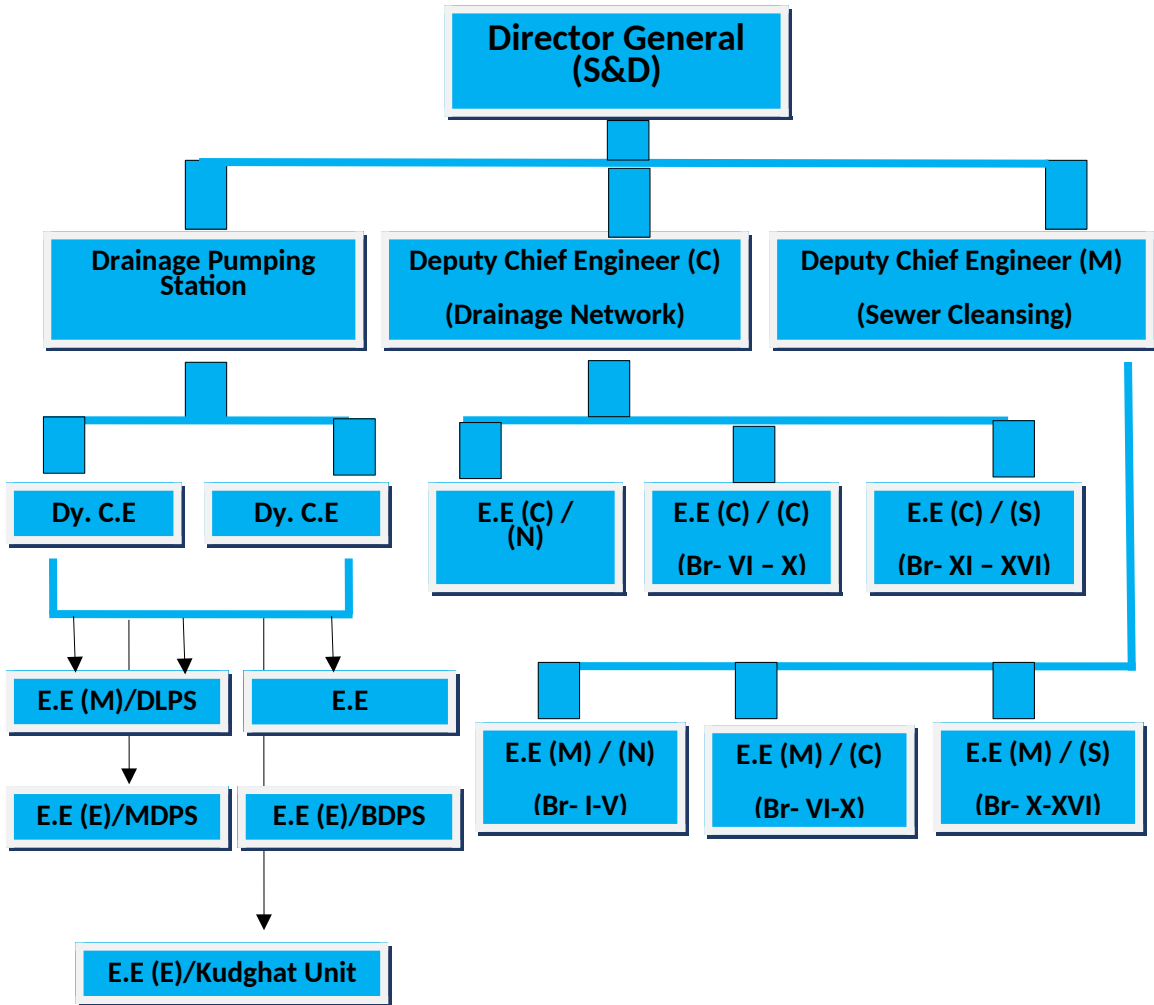
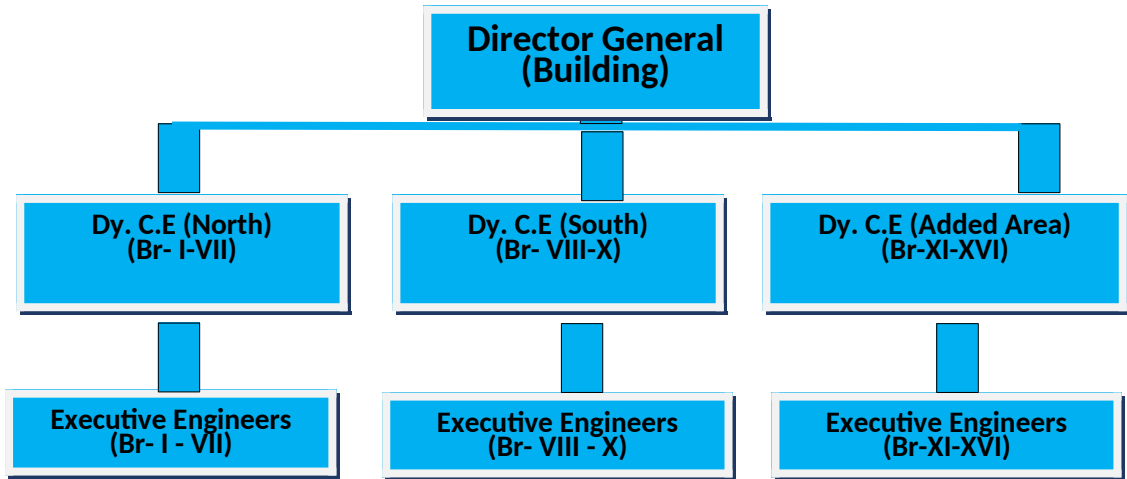
(ESF Structure and Resource Inventory has been attached in the Annexure-1)

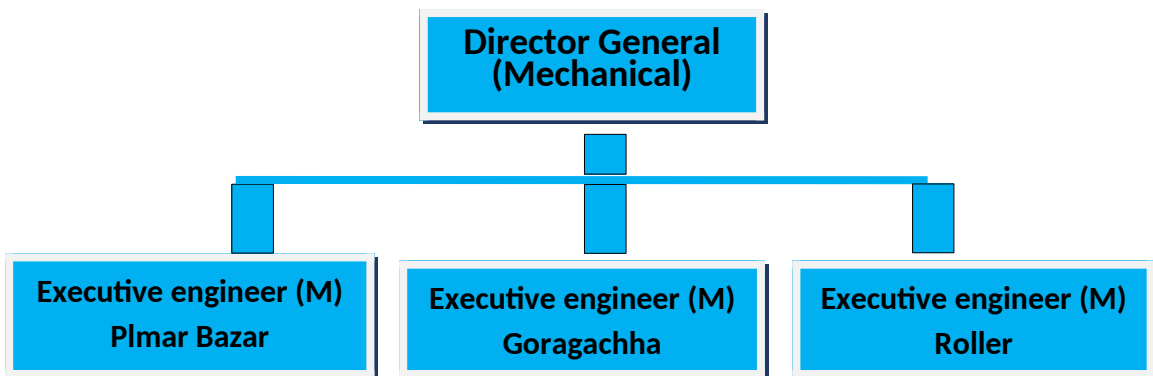
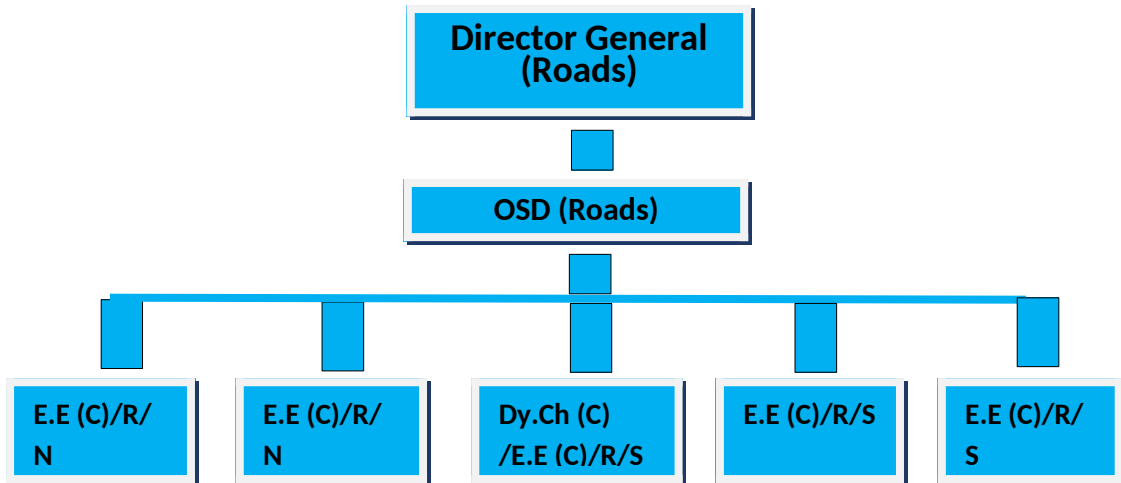
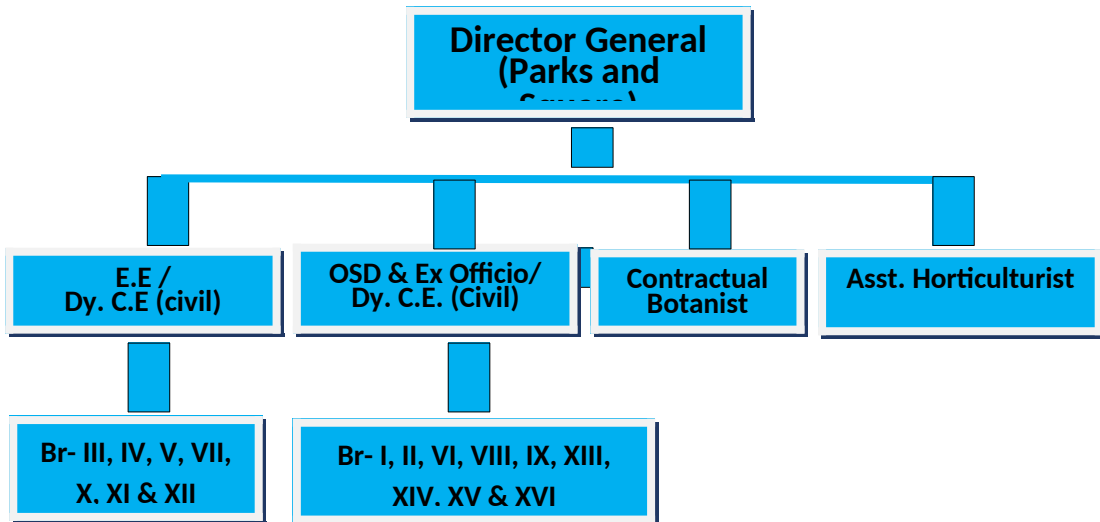
3. INSTITUTIONAL ARRANGEMENTS FOR DISASTER MANAGEMENT

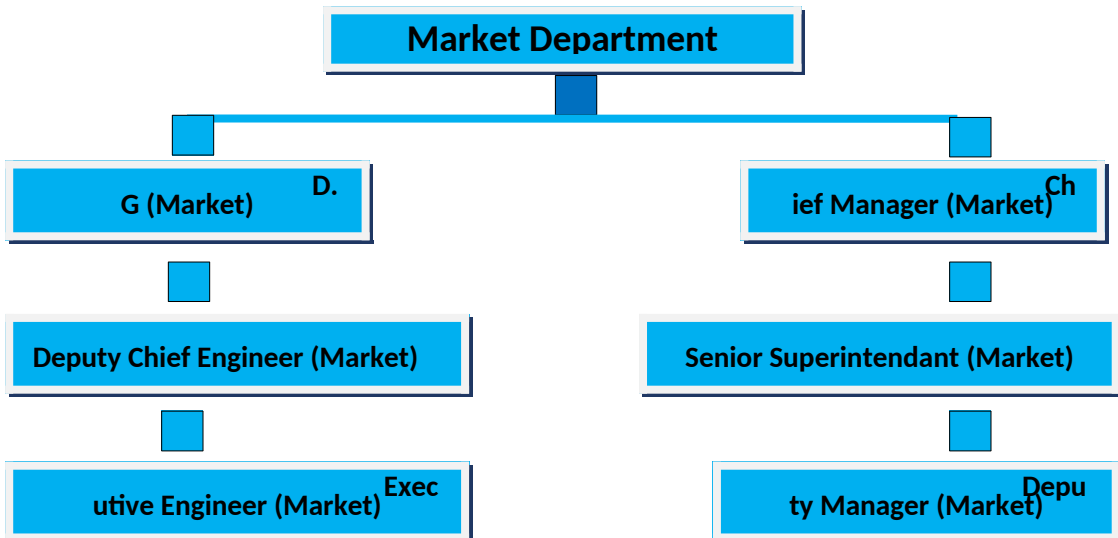
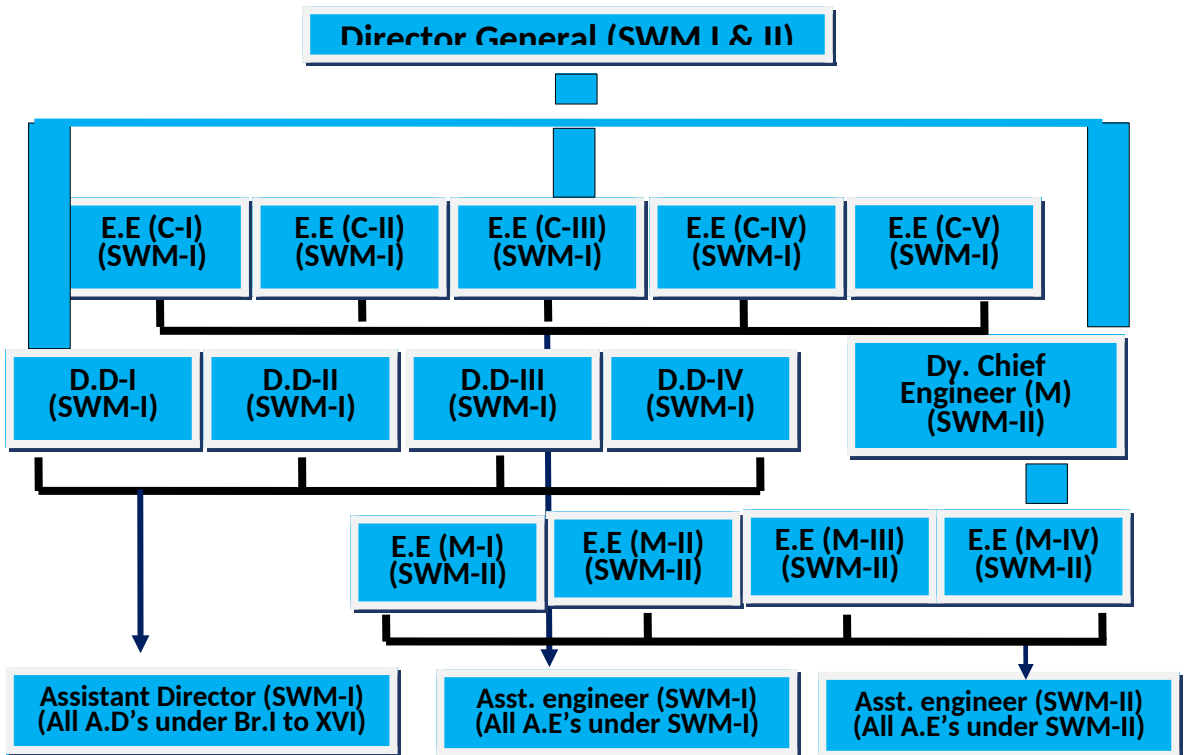
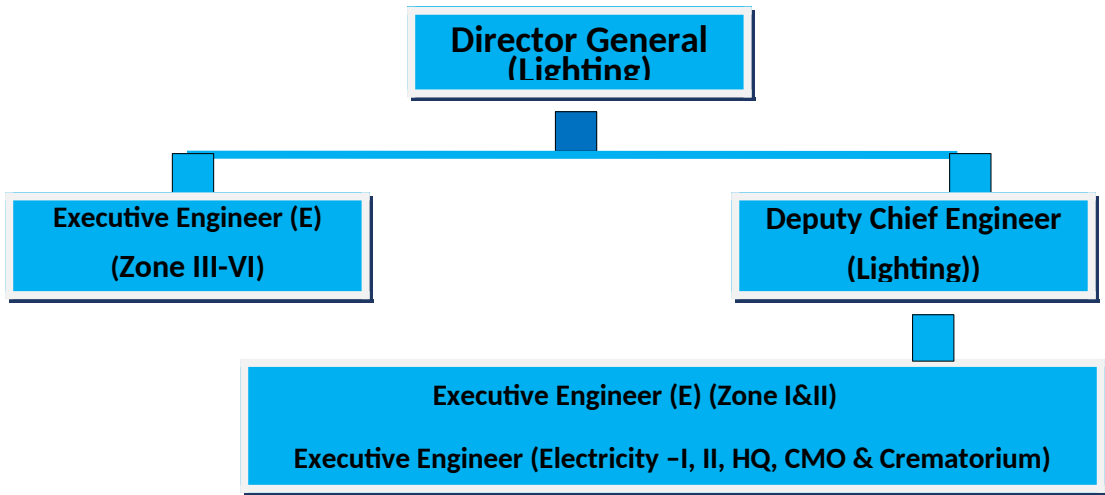
3.1 DM Organisational Structure at Kolkata Municipal Corporation











KMC does not have dedicated Disaster Management Unit. One Disaster Management Cell is there with only one Disaster Professional, this cell is working under the supervision of Municipal Secretary, KMC (Nodal Officer Disaster management). Recently the Executive Engineer (Civil) of all boroughs has been designated as Borough Disaster Management Officer.

3.2. District Disaster Management Authority (DDMA)

The **District Disaster Management Authority** of Kolkata has been constituted on the 18th January, 2018 with the Municipal Commissioner of Kolkata Municipal Corporation as the Chairperson (ref. following chart). This committee will play major roles for the before, during and post disaster activities in the city of Kolkata. This committee will act as the advisory cum final decision making body for management of all kinds of disasters in the city of Kolkata as well as for the implementation of the preparedness/mitigation projects.

Designation and organisation	Remarks
Municipal Commissioner, KMC	Chairperson
Commissioner of Police, Kolkata	Member
Director General (Fire & ES)	Member
Managing Director, WBSTC	Member
Divisional Railway Manager, Sealdah Div.	Member
General Manager, Metro Railway Kolkata	Member
Chief Executive Officer, KMDA	Member
Project Director, KEIP	Member
General Officer Commanding, Bengal Area	Member
Chairman, Kolkata Port Trust	Member
Managing Director, CESC	Member
Executive Engineer, PWD (South Division)	Member
Director of Rationing	Member
Superintending Engineer, Irrigation	Member
Chief Municipal Health Officer, KMC	Member
Director General (Civil), KMC	Member
Director General (Water Supply), KMC	Member
Director General (Lighting), KMC	Member
Director General (Roads), KMC	Member
Director General (SWM), KMC	Member
Director General (Building), KMC	Member
Director General (S & D), KMC	Member
Director General (P & S), KMC	Member
Municipal Secretary, KMC	Member-Convenor

The Municipal Secretary of KMC is the Convener of the DDMA. He is also the Nodal Officer of disaster management in KMC.

3.3. District Crisis Management Group:

- For Kolkata district there is a dedicated force of Kolkata police called **Disaster Management Group**. DMG Kolkata Police was raised in 2002 for disaster risk reduction process. This small but potent unit of Kolkata Police is required to respond in short period of time to mitigate the impact of various kinds of disaster within the city of Kolkata and adjoining areas. In the year 2002 DMG started with **water wing team**, after 2009 **Tree Cutting Team** and **CSSR, MFR** (Collapsed Structure Search & Rescue, Medical First Responder) teams have been created and they got various trainings from different renowned/prestigious training institutions of India for quick response and mitigate the sufferings of affected people in the event of natural and man-made disaster.
- There are 3 **Quick Response Team** (1 team = 8 civil defence volunteer * 3 shift with one driver and modern equipments) of Civil Defence Department located at Civil Defence Head Quarter, CCDTI Suryanagar and Howrah WBCEF for better management of disaster situation in Kolkata and surrounding area.

3.4. IRS in the District: There is no IRS in the Kolkata District

3.5. EOC setup and facilities available in the district:

KMC Control Room functions round the clock throughout the year. In KMC control room there is a LED screen where rainfall, temperature, water level and humidity data for every 15 minutes interval is being displayed for 16 stations in Kolkata. This is very much important for managing flood situation in monsoon season. An emergency Operating Centre (EOC) will be created at KMC for better management of Disaster Situation.

3.6. Forecasting and warning agencies

KMC receives weather alert (cyclone, thunderstorm, rainfall etc) from Regional Meteorological Centre, Alipore through whatsapp messages and email. The district also receives lightning alert from Department of Disaster Management and Civil Defence.

4. PREVENTION AND MITIGATION MEASURES

The **National Disaster Management Act, 2005** has defined Disaster Management — as a continuous and integrated process of planning, organizing, coordinating and implementing measures which are necessary or expedient for—

- Prevention of danger or threat of any disaster;
- Mitigation or reduction of risk of any disaster or its severity or consequences;
- Capacity building;
- Preparedness to deal with any disaster;
- Prompt response to any threatening disaster situation or disaster;
- Assessing the severity or magnitude of effects of any disaster;
- Evacuation, rescue and relief;
- Rehabilitation and reconstruction

While the occurrences of human induced hazards can be prevented or minimized to a great extent by a well aware and responsible administration with the help of a conscious community, natural hazards are not preventable as occurrences of those depend on

complicated natural changes. But the effects of these natural hazards on civilization and environment at a given place and time can be minimized by reduction of risk of disasters by adopting mitigation measures, building attitude and capacities of administration and the community in timely and effective emergency response, relief and rehabilitation activities. Thus disaster management requires proper and sufficient actions in pre, during and post disaster times

3.1 Disaster prevention mitigation measures for Kolkata

❖ KEIP (Kolkata Environment Improvement Programme)

The Master Plan proposals for Sewerage and Drainage, formulated in 1966, suffered a severe setback due to influx of large number of refugees after Indo-Pak War of 1971. The migrants chose to settle in the outskirts of Kolkata, since core city was already saturated. In the year 1984, Behala, Jadavpur and Gardenreach municipalities were added to the Kolkata Municipal Corporation Area, thereby causing unplanned development, without organised Sewerage & Drainage (S&D) facilities, in these areas. Such need for these areas had been identified and are being addressed by implementation of KEIP, (Phase-I), 257 million USD ADB funded initiative which sought to create 50.7 sq.km of S&D network.

- To prevent the pollution of Ganga, Tolly's Nullah and other canals, Kolkata Environment improvement programme (KEIP) has been implemented. In order to prevent Sewage discharge from Borough I, XI, XII, XIV and XV directly to the River Ganga **3 STPs**, namely South Suburban East, Bangur and Garden Reach have been augmented and refurbished in the first phase (2002 to 2013). The said scheme encompass development of S&D system in wards 1-6, 11-114 (part), 115,122,123 (part), 128-132, 133-138, 139-140 (part). Total capacity of the STPs is 154 MLD.
- In KEIP project total **365 km S&D** network has been developed, **21 new pumping stations** has been constructed and **20 pumping stations** has been augmented/renovated in the 1st phase (2002-2013)

❖ KEIIP (Kolkata Environment Improvement Investment Program)

The works under KEIP have been completed by 30 June 2013, the closing date of the ADB loans. Both KMC and ADB wished to continue their combined efforts to improve the urban environment and living conditions in Kolkata, building on results achieved and experience gained. Therefore, a continuation of KEIP is now proposed, which will be named the Kolkata Environmental Improvement Investment Program (KEIIP) consisting of three tranches. The ADB has expressed its willingness to support this program by providing a multi-tranche financing facility (MFF), through three tranches for US\$ 400 million. KEIIP (Kolkata Environmental Improvement Investment Program) is conceived as a logical extension to the ongoing works to cover balance area i.e. about 37 sq.km. which is still devoid of any organised S & D facility.

- In the 2nd phase (2014-2022) of the project KEIIP **215 km S&D network** will be developed, **12 new pumping** stations will be constructed, **1 pumping station** will be augmented and **3 STPs** will be constructed near WBSETCL, Joka; at Bank Plot, MG Road, Joka and at Rajpur-Sonarapur, Rania.

The above mentioned project will reduce the pollution of Ganga as well as water logging problem of Kolkata City.

- ❖ Presently there are **73** pumping stations under KMC, **4** pumping station under irrigation and Waterways Department, **4** pumping stations under KMDA, **1** pumping station under PHE and **4** pumping stations are under KMW&SA to prevent the water logging problem of Kolkata City. Presently following works of Sewerage and Drainage Department is going on:-
 - Desilting of road side drain from Berapukur More to Boat Canal along Ramnath Paul Road, C.G.r Road, D.E.B Road, Harabash road, B.K Road and outlet portion under Br- IX.
 - Construction of combined sewage pumping station at Kabitirtha Park along with improvement of sewerage and drainage network and pumping mains in ward no.76 under Br-IX.
 - Construction of drainage pumping station at Golf garden in Ward-94 under Borough X.
- ❖ **For eco friendly power generation, fire safety and prevention of Lightning** some initiatives has been taken by KMC lighting Department
 - In many places street lighting has been converted to LED, which reduces the power consumption of each light from 400W to 180/200 w and 250 W to 120/130 W respectively.
 - KMC has introduced **Solar PV Modules and Grid connected LED Lighting System** in Deshapriya Park, Jatin Das Park, Maddox Square, College Square, Patuli Upanagari Park, Deshabandhu Park, Sarsuna Park, Mohinikunja Udyan, KMC has earmarked 200 nos. Parks for grid connected solar power in a similar manner like above mentioned parks.
 - In future KMC is going to introduce a **Floating Solar Project** at Bikramgarh Jhil, 250 KW power will directly go to grid.
 - KMC has earmarked 6 nos. roof tops for installation of grid connected PV modules. The roof tops are New Market and P & D building, Hudco building, ,Gariahat Market, Lake Mall, Sarat Sadan, Dhapa Garage for eco friendly power generation. A DPR has been prepared with an estimated generation of 750 KW.
 - **Fire Alarm System** has been installed in MTMTB Hospital and in future it will be installed in New Market and IT Building of KMC.
 - There is a **Night Gang** in each borough for emergency services like potable pump operation, provide light for demolition of building at night during monsoon.
 - **Lightning Arrester** has been installed in CMO building, IT building of KMC and all solar Park except Deshabandhu Park and College Square Park.

- KMC has earmarked pole tops in street lighting system particularly in bridges and high areas where there is abundant sun light for grid connected solar power installation.

❖ **To reduce air pollution of Kolkata**

Kolkata Municipal Corporation has already taken series of initiative to reduce pollution. Some of those have been listed below:

- KMC has developed 2 nos. **Vehicle Charging Stations** as a part of green initiative for electrical vehicles.
- No mobile hot mix plants are used by KMC. Existing hot mix plants are already developed along with installation of pollution control device to reduce the air/sound pollution as well as to improve the emission quality standard.
- New batch mix plant for production of bituminous mixture is under commuting stage.
- Layering of top layer of road surface by mastic surface is already stopped.
- Proper precautionary measures are already taken at the hot mix production plant by reducing the dust pollution.
- Sprinkling of water throughout the city by movable tanker with sprinkler are deployed.
- Notice has already been issued to properly cover the construction site to reduce dust pollution.

❖ **Plans of KMC Health Department to prevent and manage different health hazards**

- Prompt detection and treatment of malaria through 145 KMC-run Malaria Clinics.
- Prompt detection of dengue through KMC-run 15 Dengue Detection Centres (DDC). A chain of 15 (Fifteen) state of art Dengue Detection Centres (DDC), have been built and the same are functioning effectively, whereby the sophisticated and costly dengue detection facilities (as per WHO guidelines) have been made available to the citizens of Kolkata free of cost. The diagnostic tests undertaken for detection of dengue fever are NS1 & IgM, both by ELISA methodology.
- Provision for procurement of a wide range of drugs (70-80 types), consisting of general medicines, antibiotics, anti-diabetics, anti-hypertensive, anti-tubercular etc and distribution of the same free of cost to the beneficiaries attending KMC Health Infrastructures.
- Provision for laboratory investigations like TC, DC, Hb%, ESR, Platelet Count, blood sugar and advanced pathological tests like Urea, Creatinine, TSH, Uric Acid, Lipid Profile, Liver Function Test (LFT) and HB1C are being done in all 16 boroughs. Moreover treatment for non-communicable diseases like Diabetes, Hyper tension, bronchitis, anaemia are been taken cared for in all 144 UPHC with modern treatment facility.
- Provision of 16 Cardio Diabetes Clinic with ECG facilities has been established.
- Minor surgical care with OT facility has been established in all 144 UPHC.
- **Prevention and control of Vector Borne Diseases**
 - Rallies on Dengue Control at HQ and 144 Wards in February,2020

- **Workshops for Primary Care Physicians** attended by Ward Councillor, Medical Officers, Laboratory Technicians, health Supervisors, Borough Vector Control In Charges and other health officials of the department. Experts from the Directorate of NVBDCP (ROH&FW, Kolkata) and Calcutta School of tropical Medicine, government of west Bengal, are present in the workshop as resource persons.
- **Reorientation training on vector control:** Reorientation training on methodologies of vector control for all categories of staff including 16 Borough Vector Control In Charges, 144 Ward Vector Control- In- Charges and Field Workers conducted under supervision of Chief VCO and 3 Consultant Entomologists.
- **Data Bank on Mosquito Breeding Sources:** A 9048 – page Data bank was created by digitised ward-wise information regarding addresses of all potential mosquito breeding sources collected during 2013. Released by the Honorable Mayor and the Honourable MMIC (Health) on 17th July, 2014. This data bank is presently helping the department streamline its city-wide drive for detection and destruction of mosquito larve. This Data Bank is updated every year and include lists of number of masonry tanks, open overhead water tanks, seepage water-holding sites, wells, open drains, ponds, slum clusters and under-construction buildings in the KMC area. The vector control squads of the department keep these potential breeding sources under strict vigil throughout the year.
- **Legal cell** expedites the process of filing of cases in the Municipal Court against the erring people, in violation of the anti-mosquito guidelines of KMC. A substantial number of cases are filed every year in the Learned Municipal Court for prevention of mosquito breeding in and around human-dwellings, besides issuance of legal notices **u/S 496 (A) of the KMC Act,1980**. Besides 496 (A) of KMC Act 1980, the legal notices and it's penalizations with exemplary exorbitant fines are being imposed to promoters, vacant land owners and others. Never the less this approach has created much awareness in persons creating nuisance and water accumulations.
- **Drive for source reduction** undertaken from the beginning of the season [by detection and destruction of the mother foci of malaria and dengue-bearing species (Anopheles stephensi and Aedes aegypti respectively] is undertaken in different wards of KMC by 24 Rapid Action Teams [8 CRATs and 16 BRATs] and the Field Workers of different Ward Healthunits right from January.
- **House visits** undertaken by Honorary Health workers for fever survey and by WBUES workers for distribution of IEC materials are carried out throughout the year.
- For the control of Dengue **Fever Camp** and **patient tracking system** has been initiated in all 144 wards, where each patient of dengue hospitalised or in domiciliary care should be observed daily by KMC Medical Team till full recovery.

- **Exemplary Dengue Surveillance System:** one staff in each KMC ward is designated to collect dengue/ malaria-reports from different private pathological laboratories, hospitals, nursing homes and other non-KMC diagnostic Centres located in the ward. In all 144 such dedicated staffs (called Morning Data Collectors) visits the non-KMC health set-ups to collect reports, right from January 2014, throughout the year, on a daily basis. **The information collecting system is unique in India.**
- **Vector control activities registered as per formats:** vector control activities carried out by Field Workers in all the 144 wards of KMC, 16 Borough Rapid action Teams and 8 Central Rapid Action Teams are recorded on a daily basis as per the entomological formats provided by the Vector Control Department.
- **Larvicidal spray using rowing boats** are carried out in different culex-genic canals, using 20 KMC-owned small rowing-boats as transport throughout the year. People of around 46 wards get benefit from this anti-mosquito drive.
- Prompt removal of accumulated solid wastes from wards in collaboration with the SWM Department.
- Inter sectorial meetings at Borough /Ward Levels
- Source reduction Drive by Rapid action Teams: schools, Colleges, Universities, market places, medical colleges and hospitals, under construction buildings, office buildings are inspected by 24 Rapid Action Teams (8 Central Rapid Action Teams and 16 Borough Rapid Action Teams) on a regular basis throughout the year.
- Weekly review meeting on vector-borne disease control programme with Deputy CMHOs, Chief Vector Control Officer, Borough Executive Health Officers, Consultant Entomologists and other concerned officials of the department is held in the chamber of Chief Municipal Health officer on a regular basis. MMIC (Health) is present in many of these meeting.
- Video conferencing: inter departmental video conference on every third Thursday of the month, is held throughout the year in presence of the MC, Joint MC and controlling officers of all concerned departments – including health, SWM, Building, Engineering and Drainage etc.
- Administrative meetings at all 16 Boroughs undertaken by MMIC (Health) every year.
- **Awareness Raising Activities:** IEC activities in the form of awareness-raising meetings involving ward councillors, multi-coloured banners, colourful hoardings, sun-pack boards are put up at different busy intersections across the city. Booklets (Bengali, Hindi and Urdu), multilingual leaflets against both malaria and dengue are printed in adequate amounts and distributed among the city-dwellers. A documentary film is screened for 2 consecutive months by using 3 publicity vans (each fitted with LED screen). Auto – miking twice a week is done in every KMC ward over a span of months and awareness kiosks/service-oriented health camps are organised on a felt need basis. Besides these FM campaigns and TV slots are also utilised for awareness raising on vector borne diseases.

- **Drone Activities:** A special surveillance activities over water accumulations in roof top areas are being undertaken through drone activities. IC activities on vector borne disease are been undertaken in INCODA (Metro Rail), TV, FM Radio, TV Channel and LED Van, which will be done in 2019 in more extensive way.
- Integrated Disease Surveillance Programme (IDSP): IDSP (KMC) is performing as District Nodal Agency for the city of Kolkata in respect to surveillance of all types of occurrences of communicable and non-communicable disease within the jurisdiction of the city of Kolkata. Under the control of KMC with assistance of Govt. of west Bengal and GOI, the unit is responsible for maintenance of all kinds of records and generation of information, forecasting of outbreaks of any communicable disease, planning for prevention of occurrences of different diseases and promotion of health of the city dwellers as well as containing the spread of any such communicable diseases in the city etc. A record of occurrences of such diseases is maintained in NIC (India) through the standard reporting formats of L, P and S Forms. Manual Surveillance System (MSS) has already been up-graded to authentic, secure and cost effective Digital data Communication System (DDCS) in 2015-2016. Presently the reporting system has been further up-graded to a GIS-based on-line (web based) Real Time Digital Health Management Information system (HMIS) with the provisions for instant inputs of field level data. Data Analytic Division is also to be incorporated in HMIS in the future with further provisions for control measures.
- For the prevention of food adulteration, periodic food sampling is been done by Food Safety Officer under FSSAI Act. FSW (Food Safety on wheels) is an initiative where samples are collected and tested in the laboratory installed in the van.
- There are two Dog Pounds in KMC area, one in Entally and another one is in Dhapa. Street dogs of KMC area is being caught and kept in the dog pound for sufficient time where vaccination as well as sterilization is done.

❖ For prevention of dilapidated building collapse, to reduce green house gas emission and fire prevention

- After visual assessment, owner of each dilapidated building is issued notice (U/S 411 (1) of KMC Act, 1980) by KMC and people are alerted by hanging a caution notice board on that building as a usual practice. Till now KMC issued notice to more than 3000 buildings.
- Rule 142 of Building rules, 2009, allows owners to enjoy additional 100 percent floor area of tenant occupied portion. Provided they will rehabilitate the tenants in the new constructed buildings. This will resolve the issue of dilapidated buildings which often pose serious threats in the city.
- 10% additional Floor area ratio (FAR) shall be allowed in cases of Green Building.

- As per the KMC Building Rules, every building for residential uses of fifteen and a half metres and above in height, and buildings of other uses and buildings with basement shall be provided with adequate means of exit and all arrangements for protection in case of fire.

❖ **Early Warning and Information Dissemination system**

- As a positive effort towards disaster management, KMC's Control Room functions round the clock throughout the year and KMC keeps touch with India Meteorological Department, Kolkata in case of major threat of natural hazards. KMC has implemented a project to monitor rainfall at various locations of the city of Kolkata and surroundings, which may provide quick information on the state of possible inundation in the city. There is a website called weatherkolkata.in, which gives information of temperature, rainfall, humidity, barometric pressure for total 16 stations in 15 minutes intervals. In addition, the water level in the pumps of some the drainage and sewerage pumping stations are being monitored for providing an estimate of the water accumulating at these stations (especially during the monsoon rains), and how many pumps may need to be deployed to evacuate the bulk of the water. Still the control room requires more strengthening with modern equipments and capacity enhancement. KMC is planning to create a EOC (Emergency Operating Centre) for better management of disasters within KMC area. For efficient co-ordination and effective response, communication amongst government, NGO/private stakeholder departments/organizations is essential and should be given very high priority.
- The Flood Forecasting and Early Warning System (FFEWS) is the **first comprehensive city-level early warning system in India**. This system is accessible both through **kflood android app** as well as thorough ***kflood.in*** website. The FFEWS consists of forecast, models and scenarios, real-time status and warning pages. Over 400 sensor nodes monitoring pump operation status, sump water level, street, canal, and shop/building front water levels, rainfall, air quality, temperature, and humidity are being set up to provide granular data in real-time. Suspended particulate matter and thermal comfort (heat index) monitoring (through air quality, temperature and humidity sensors) are integrated with the system to ensure year-round use of the FFEWS. The information generated and disseminated by the FFEWS will enable informed decision making before and during and

after disasters. This warning and forecast data can be accessed anywhere using web browsers and mobile apps.

Real time sensor data on:

- Rainfall (40 stations)
- Street inundation (80 Stations)
- Pump status (72 pumping stations)
- Canal water levels (10+)

Table: 4.1 Locations of Street Sensors

Sl. No	Location Name	Latitude	Longitude
1	Lake Market	22.51667	88.3493
2	BT Road - Raja Manindra Road Crossing	22.61222	88.37711
3	Sarat Bose Road Near Health Point Nursing Home	22.53102	88.35304
4	Dakhin Behala Road Near State Bank of India	22.47163	88.2982
5	Southern Avenue Street	22.5126	88.3513
6	Deshopria Park	22.51771	88.35235
7	Brabourne Road - Strand Road Crossing	22.58167	88.34928
8	James Long Sarani - Santosh Roy Road Crossing	22.48103	88.31348
9	Biren Roy Road - Bombai Bagan Road Crossing	22.48476	88.29567
10	Ramkrishna Sarani near Vivekananda Pally High School	22.49908	88.3082
11	AJC Bose Road - Suri Lane Crossing	22.56473	88.36831
12	Camac Street - Shakespeare Sarani Crossing	22.54534	88.35271
13	Topsia More	22.54173	88.38922
14	Diamond Harbour Road Near Body Guard Lines	22.53329	88.328
15	Diamond Harbour - Roy Bahadur Road Crossing	22.5022	88.31837
16	Taratala Crossing On Diamond Harbour Road	22.51363	88.32228
17	Karl Marx Sarani - Dr. Sudhir Bose Road Crossing	22.53874	88.32084
18	Muktaram Babu Street - Central Avenue Crossing	22.5826	88.36183
19	MG Road - Central Avenue Crossing	22.57876	88.36045
20	Dr. Kotnis Sarani - Tollygunge Circular Road Crossing	22.50503	88.33727
21	Eden Garden Front	22.56634	88.34292
22	Roy Para Road - Seven Tanks Road Crossing	22.62673	88.389
23	Sonarpur Main Road	22.52591	88.308
24	Giris Chandra Bose - Anjuman Road Crossing	22.55136	88.36578
25	Dhali Para Road near Dhali Para Masjid	22.4668	88.33034
26	Keshab Chandra Sen Street Near Jawahar Cinema	22.57871	88.36599
27	BT Road - Lock Gate Road Crossing	22.61604	88.37894
28	Karbala City Club	22.53902	88.2694
29	Khudiram Bose Sarani - Tara Sankar Sarani Crossing	22.60579	88.38385
30	James Long Sarani	22.46079	88.30918
31	Railway Lane Road - Karbala Road Crossing	22.54071	88.26897
32	Rabindra Sarni - Seth Bagan Crossing	22.5891	88.35887

33	Rabindra Sarni Near Jorasanko	22.58638	88.35814
34	Gobinda Khatick RD - Park Road Crossing	22.55063	88.38528
35	Diamond Harbour Road Near Sakher Bazar	22.47408	88.30942
36	Indra Roy Road - Chowringhee Road Crossing	22.52741	88.3458
37	Mahatma Gandhi - Banerjee Para Road Crossing	22.47652	88.3417
38	Chowringhee Road - SN Banarjee Road Crossing	22.56077	88.35088
39	Jatindra Mohan Avenue	22.59327	88.3645
40	Diamond Harbour Road Near Barisha Shashibhusan	22.48531	88.31264
41	Mahatma Gandhi road near Vishnu Tower	22.46007	88.32774
42	Rafi Ahamad Kidwai - Park Lane Crossing	22.55154	88.35571
43	APC Road Near Sukia Street	22.58175	88.37413
44	Diamond Harbour Road - Judges Court Road Crossing	22.5271	88.32587
45	Bidhan Sarani Near Jiban Pvt Ltd	22.59868	88.3732
46	Thakurpukur Bibirhat Bakhrahat Raipur Road Near Bardhanpally	22.4574	88.299
47	Uday Shankar Sarani - Prince Golam Md. Shah Road Crossing	22.49778	88.35697
48	Sarat Chandra Avenue - Shyama Prasad Mukherjee Road Crossing	22.50907	88.34551
49	Parck Circus Connector	22.54389	88.36814
50	Vivekananda Road	22.58606	88.36499
51	James Long Sarani Near Barisha Vivekananda Girls High School	22.48685	88.31524
52	Dakhin Behala Road Near Sarodapally	22.46407	88.29151
53	Amherst Street	22.58462	88.37212
54	Crossing of Hide Road and Garden Reach Flyover	22.53061	88.30745
55	Peary Mohan Road Near Chetla Agrani Club	22.51722	88.33596
56	Briji Road Near Briji School More	22.46545	88.38624
57	Judges Ct Road near Tolly Canal	22.52387	88.34061
58	Cossipore Road - Lock Road Crossing	22.62105	88.3729
59	Thanthania	22.58114	88.3658
60	Sukanto Setu	22.49147	88.37209
61	Jadav Centra Road Near Raipur Road	22.48854	88.36248
62	Rafi Ahamad Kidwai - AK Md Saddique Lane Crossing	22.55435	88.35684
63	Maniktala Road Near Kakurgachi Post Office	22.5798	88.39624
64	Narkeldanga Main Road Near Sri Gurudas Banerjee	22.57341	88.38499
65	Chatu Babu - Lal Mohan Crossing	22.55893	88.37432
66	Panchasayar Main Road Near Bagha Jatin	22.48243	88.38662
67	Near Railway Line and Taratalla Road Crossing	22.55207	88.26343
68	Circus Avenue Near Nasiruddin Road	22.5412	88.36556
69	Kalighat Road	22.52148	88.34139
70	Near Crossing of Karl max Sarani and Hide Road	22.53822	88.30598

Table.4.2: Location of Rainuage Stations

Sl.No.	Name of the Rainguage Station	Sl No.	Name of the Rainguage Station
1	Thanthania Rainfall	20	Duttabagan(Old Station) Rainfall
2	Gokhel Road Rainfall	21	Cossipore Rainfall
3	Kudghat L.S-5 Rainfall	22	Keorapukur MPS Rainfall
4	Behala Flying Club Rainfall	23	Nimakmahal PS Rainfall
5	Hastings Rainfall	24	Usha Gate L.S-1B Rainfall
6	Chingrighata Rainfall	25	Mominpur (New) Rainfall
7	Kuliatangra Rainfall	26	Southern Avenue Rainfall
8	Topsia Point 'A' Rainfall	27	Kalighat DPS Rainfall
9	Kasba Rainfall	28	Buroshibtala L.S-1 Rainfall
10	Chak Garia Rainfall	29	Borough No. XVI
11	Kamdahari MPS Rainfall	30	CPT Canal Rainfall
12	Jodhpur Park DPS Rainfall	31	Shakuntala Park (Node C) Rainfall
13	Sasisekhar Rainfall	32	PS-II (KP Singh Road) Rainfall
14	Chowlpatty Rainfall	33	Ward-46 Rainfall
15	Nonadanga (PS4) Rainfall	34	PS-I (beside Ramkrishna Mahasasan) Rainfall
16	Baghajatin (PS1) Rainfall	35	Ballygunge DPS Rainfall
17	Jagannath ghat Rainfall	36	Dhapa Loc DPS Rainfall
18	R.K Ghosh Road Rainfall	37	Palmer Bridge (Old) Rainfall
19	Beerpara(Old Station) Rainfall	38	Ultadanga DPS Rainfall

Table.4.3: Location of Canal sensors

Sl. No.	Name of Open Canals
1	Chingrighata Canal
2	Mominpur Canal
3	CPT Canal
4	Pagala Danga Canal
5	Kuliatangra Canal
6	BDPS Canal
7	Jora Bridge
8	Baghajatin Canal
9	Nonadanga Canal

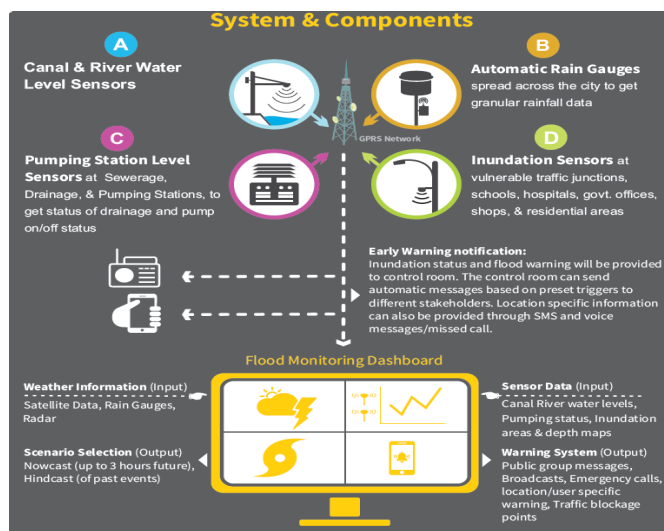


Fig.3.1:Diagram showing the different kinds of sensors that are put together to create the FFEWS and how they will help during the monsoon.

- ❖ The transport department is working on River Safety, Road safety and Pollution control. The details of their initiatives have been mentioned below:-

- Transport Department has taken up various initiatives for river safety. This department has waved out a standard Operating Procedure (SOP) and implemented it in 481 Jetties/Ferry Ghats of the state for the safer river transport. In order to ensure that SOP is implemented at each of the jetties, 626 Jalasathi are being deployed at Jetties.
- Transport Department has introduced the Jaladhara Scheme to convert semi – mechanised boats to mechanised ones to avert accidents.
- The department has taken up various initiatives for road safety. Process of retrofitment of Speed Limiting devices (SLD) in existing transport vehicles has been initiated. Funds have been provided for taking various types of road safety measures like Integrated Traffic Management System and Surveillance System, laser based Speed radar Gun and Enforcer Camera, CCTV surveillance etc. Arrangement of Trauma Care Ambulances, Motor Bike and app based identification of traffic system has also been introduced.
- Massive campaign on strict observance of Road safety rules highlighting Safe Drive Save Life has been organised in Kolkata in the month of March.
- As per rules it is mandatory for every vehicle owner to carry a valid Pollution Under Control Certificate (PUCC) and maintain the vehicle in such a condition so as to make it compliant with the prescribed emission norms. Any vehicle on the road needs to have a valid Pollution Under Control (PUC) certificate. All vehicles tested for PUC are now mandatory to carry sticker on their wind screen and on the front fender of two wheeler.
- Mandate setting of Auto Emission Testing Centre (AETC) in each of the licensed automobile fuel dispensing stations in the state. Initiatives has been taken to make the process online.
- 80 Electric Buses is running in the city of Kolkata and suburb to lower the emission level.

The future plan for pollution control and road safety has been mentioned in the following table

Table No. 4.4: Future Plan of Transport Department for Pollution Control and Road Safety

State Objectives relevant to the Goals & Targets	Components of each objective	Key Initiatives / Actions Undertaken or Proposed Short Term (Year 2020)	Key Initiatives / Actions Undertaken or Proposed Medium Term (Year 2025)	Key Initiatives / Actions Undertaken or Proposed Long Term (Year 2030)
Activities on Road Safety	“Safe Drive Save Life” Campaign.	“Safe Drive Save Life” Campaign would be made all over the state in transport sector.	“Safe Drive Save Life” Campaign would be made all over the state in transport sector.	“Safe Drive Save Life” Campaign would be made all over the state in transport sector.
	Augmentation of funds for procurement of traffic equipment, signals for road safety.	Attempts will be made to equip all the important traffic intersection points with modern traffic furniture/equipment/ signals etc. in city areas.	Attempts will be made to equip all the important traffic intersection points with modern traffic furniture/equipment/ signals etc. in district HQs.	Attempts will be made to equip all the important traffic intersection points with modern traffic furniture/equipment/ signals etc. in Block level.
Pollution Measures	Reduction of pollution due to automobile sector by launching of eco-friendly fuel /battery operated vehicle/ e-rickshaw.	Eco-friendly fuel /battery operated passenger vehicles / e-rickshaw will be promoted in the areas of city and district town.	Eco-friendly fuel /battery operated passenger vehicles / e-rickshaw will be promoted in the areas of Sub-division / Municipality of the State.	Eco-friendly fuel / battery operated passenger vehicles / e-rickshaw will be promoted in the rural areas of the State.
	Modification of Pollution testing centre	Increase number of pollution testing centre.	Increase number of pollution testing centre and make networking.	Introduction of mobile pollution testing system.

Source: Transport Department, Govt. of west Bengal

- ❖ To prevent accident and to control air and noise pollution following steps has been taken by Kolkata Traffic Police
 - CCTV cameras, Spring Post without verge, Raised Pavement Marker, Retro-reflective Board, Convex mirrors , RLVD (Red Light Violation Device), speed signage etc have been installed by Kolkata Traffic Police to Prevent accident.
 - Anti-Pollution Cell, T. P. conducts raids against vehicle causing air & Noise Pollution. Especially at silence zones around School, Hospitals etc.
 - Anti-Pollution Cell, T. P. intercept vehicle (Diesel/Petrol) and check the smoke emission levels of those vehicles with smoke testing machines. If the

level of emission are under control the vehicle are free to go. On the other hand those vehicles which are emitting smoke beyond permissible limit in spite of having valid PUC are served with notice for the rechecking of the vehicle after (07) Seven day's after seizing documents U/S 115(7)CMVR after seven day at time of rechecking if the vehicles fails to comply with the pollution norms. Then they are prosecuted U/S 116(6)CMVR/190(2) MV Act. on regular basis.

- Anti Pollution Cell, T. P. at present 22 TP Guards are being supplied with Smoke Test Machines and Generators and they are also equally checking the pollution level of different vehicles in there respected jurisdiction at random every day and similarly serving notice and compounding all polluting vehicles as per laws.
- From 1st may 2017 a Web Based Portal of Pollution Under Control certificate have being introduce by Kolkata Traffic Police for keeping record of the vehicles procuring Pollution Under Control certificate within Kolkata Police Jurisdiction. Total 89 AETC (Auto Emission Testing Centre) under Kolkata Police Jurisdiction are brought under one roof and their regular PUC Checking data's are uploaded in portal by these AETC'S regularly. Total Four (04) vendors are providing service within Kolkata Police Jurisdiction.
- SMS alert and reminder to the vehicle owner regarding their renewal of their PUC certificate depending upon this uploaded data. Fifteen (15) days prior to the date of expiry of PUC certificate a SMS alert is sent to the owner of the vehicle over his mobile as per record as a remainder for their PUC renewal.

5. PREPAEDNESS MEASURES

5.1 Identification of Stakeholders involved in disaster response

5.1.1 Response and evacuation

DMG, Kolkata Police, Civil Defence Department and West Bengal Fire and Emergency services Department will primarily participate in the evacuation process. If situation demands further assistance, the matter will be escalated to the State Government for necessary actions.

5.2 Formation of Team for Early warning, search and Rescue, Evacuation and Damage and loss assessment

- After receiving the early warning message from State Government as well as from Regional Meteorological Centre, Alipore, KMC Control Room will circulate the message to Borough Control Rooms of KMC. If there is any high alert, then, the message will be circulated to the local people by KMC Borough Offices, Kolkata Police Department and Media.
- DMG, Kolkata police, West Bengal Fire and Emergency Services Department and Civil Defence department will carry out the search and rescue and evacuation works.

KMC and other stakeholders department will assist the above mentioned team in the whole process.

- If there is damage of Hutments, slums or Jhupri due to natural or man-made calamities, loss assessment reports are sent by the KMC borough engineers to the KMC (HQ) after site inspection. KMC provides one time financial assistance to the victims for the repair of the houses from KMC Disaster Management Fund. In case of large scale damages of dwelling houses, KMC Borough engineers send the damage report as per the State Government rate after which the same report is being sent to State Government for House Building Grant by KMC (HQ). Damages of big markets, shopping malls, housings, other business establishments etc. do not come under the purview of KMC as these establishments are covered under fire insurance etc. Loss assessments are calculated by licensed private surveyor/assessor.

5.3 Activation of IRS in the district

No IRS (Incident Response system) has been created for Kolkata till now.

5.4 Protocol for seeking help from other agencies (Govt. of India, state Government, NDRF, SDRF, Army, Navy and Air Force, central Para Military forces)

If assistance is required from any state or national force the matter will be brought to the notice of the State Government through Honourable Mayor and Municipal Commissioner of KMC. State will perform further course of actions.

5.5 Mechanism for checking logistics, equipments and stores

Senior officers from KMC Health Department regularly visit the Central Medical Dispensary of KMC to check the stock level of medicines in the store. Different equipments which are being used during any disaster from KMC are regularly inspected by respective department officials. The stores of KMC are regularly inspected (especially before monsoon) to check the availability of tarpaulin, garments and disaster management kit etc. If there is further requirement, requisition is being sent to State Government.

5.6 Operational Check Up of Warning Systems

A Whatsapp group has been created by Regional Meteorological Centre, Alipore for cyclone/ thunderstorm and other weather related warnings. All senior officers of KMC are included in that group. Meetings with all the stakeholders are being held at Regional Meteorological Centre, Alipore twice a year to discuss the warning related issues.

5.7 Operational Check Up of EOC

There is no EOC in Kolkata Municipal Corporation but there is a Control Room in KMC, which operates round the clock (24*7). During monsoon from April to November and during any other emergencies special arrangements are being made for manning the Control Room (monsoon arrangements are being done as per Municipal Commissioner Circular of that particular year).

5.8 Seasonal preparation for seasonal disasters like flood and cyclone

Every year before monsoon a circular is being released from Municipal Commissioner's Department of KMC regarding emergency arrangements during monsoon months (from April to November)

5.9 Procurement (Tents, blankets, tarpaulin, equipment etc)

For procurement of Tents, blankets, tarpaulin and equipments etc requisition is sent to Department of Disaster Management and Civil Defence Department. After getting the official letter from directorate, care taker of KMC collects the materials from the godown of Disaster Management Department.

5.10 Media Management /Information Dissemination

KMC has I&PR Department for Media Management. For early warning, the decision on media briefing will be taken by State Authority as well as District Authority.

5.11 Medical preparedness and mass casualty management

KMC has 144 UPHC in Kolkata. During emergency for primary health care services (eg. Minor burn/cut injury) KMC can create 144 emergency medical camps. For major injuries, the wounded can be moved to the Govt. Hospitals, private hospital and nursing homes of Kolkata, for better treatment.

6. CAPACITY BUILDING AND TRAINING MEASURES

As per DM Act,2005, “**Capacity Building**” includes:-

- Identification of existing resources and resources to be acquired or created
- Acquiring or creating resources indentified under sub-clause (i)
- Organisation and training of personel and coordination of such training for effective management of disasters

Since 2005 KMC has been implementing URBAN EARTHQUAKE VULNERABILITY REDUCTION PROJECT (UEVRP), a sub-component of the Govt. of India – UNDP **Disaster Risk Management Programme** (a national initiative covering disaster prone 17 states and 38 populous cities in India). The Dept. of Disaster Management, Govt. of West Bengal is the state nodal department for implementation of DRMP. Following activities were done till 2008.

- a. About 250 senior officers including quite a few at policy/decision making level of a few stake holder organizations were sensitized under UEVRP on the risk of disasters and Dos & Don'ts.
- b. A few responsible officers of a few departments of KMC have received training on disaster management.

c. 99 Engineers and 104 Construction Workers were trained in disaster resistant construction technology.

d. More than 400 students and 466 school teachers were sensitized / trained on disaster management.

e. About a thousand community members were sensitized.

f. IEC materials on dos and don'ts for earthquake hazard were distributed in all the above meetings. Govt. of West Bengal and govt. of India are also disseminating these through news papers, radio and television all of which are increasing awareness levels of people of the city.

- In the year 2015 KMC organised a workshop (2 days) to sensitise school and college students.
- In the year 2017 total 17 officials from Building Department, Sewerage and Drainage Department, Health Department, Disaster Management Unit and Education Department of KMC were trained in 2 days workshop on Urban risk Reduction at Tran Bhawan.
- KMC Health Department regularly provides training to the Medical officers, Nurses and lab Technicians
- In the year 2019 KMC organised a 2 days training on Fire safety. More than 350 security staffs of KMC markets participated in the training programme.

Besides these KMC organises different rallies in Kolkata to spread awareness people on prevention of dengue. KMC has displayed banners in different parts of Kolkata to make people aware about the disease and dilapidated buildings in Kolkata. **DMG, Kolkata police** provides training to different teams on regular basis. **Institute of Fire Service, Kolkata**, a fully modern training centre, was built in Behala, Shilpara. This training centre has all latest training facilities with smoke chamber, drill tower and a building for simulation exercise. It can train more than 150 personnel at a time.

NDRF, 2nd battalion conducted following Mock drill in Kolkata in the year 2019

- A Joint Mock Exercise on “Flood rescue & Building Collapsed” with CISF unit, KoPT, Kolkata was conducted at Watganj, Kolkata Port Trust, Kolkata (W.B).
- A Joint Mock Exercise on “Fire & Building Collapsed” with CISF unit IG Mint was conducted at IG Mint, Taratala, Kolkata (W.B).
- A Joint Mock Exercise on “Earthquake which triggered dry dock Collapsed” with CISF unit GRSEL conducted at GRSEL, Kolkata (W.B).
- A Joint Mock Exercise on “Train Accident” with Railway conducted at Howrah Railway Goods yard, Howrah Railway Station under Howrah division of Eastern

Railway (W.B). A Joint Mock Exercise on “Earthquake & Building Collapsed” with CISF unit, KoPT, Kolkata was conducted at Watganj, Kolkata Port Trust, Kolkata (W.B).

- A Joint Mock Exercise on “Earthquake & Building Collapsed” with CISF unit IG Mint was conducted at IG Mint, Taratala, Kolkata (W.B).
- A Joint Mock Exercise on “Leakage of Petroleum Vapour” with PSU unit was conducted at BPCL Installation Plant, Budge Budge, South 24 PGS (W.B).
- A Joint Mock Exercise on “Leakage of Petroleum Vapour” with PSU unit was conducted at BPCL Installation Plant, Budge Budge, South 24 PGS (W.B).
- A Joint Mock Exercise on Disable Train with Metro Railway, Kolkata conducted in Between Kalighat and Rabindra Sarobar Metro Railway Station, Kolkata (W.B)
- A Joint Mock Exercise on “Emergency Rescue” with CISF unit was conducted at Victoria Memorial Hall, Kolkata (W.B)
- NDRF organized 4 School safety Program in 4 different school of Kolkata in the year 2019.

6.1 Capacity Building Plan

6.1: Annual Training Plan and Budget of KMC 2020

Sl. No.	Tentative Time of Training	Target Group	Topic of Training	Tentative Budget
1	May	Selective teachers of all KMCP School	One day training on School Safety	5,00,000/-
2	September	College Students	1 Day workshop on Fire Safety	5,00,000/-

KMC will organise above mentioned training programmes in the year 2020.

7. RESPONSE AND RELIEF MEASURES

7.1 Response planning (multi hazard), preparedness and assessment

7.1.1 Quick assessment of damage and need

In case of big calamities in Kolkata, district administration, with the help of different stakeholders, will quickly assess the damage (rough) and need.

7.1.2 Warning and alert

- After receiving the early warning message from State Government as well as from Regional Meteorological Centre, Alipore, KMC Control Room will circulate the message to Borough Control Rooms of KMC. The same message is being sent to Kolkata police. All police stations under Kolkata Police are equipped with a vehicle with PA system. These vehicles can be used for disseminating early warning messages to local areas.
- A WhatsApp group has been created by Regional Meteorological Centre, Alipore for cyclone/ thunderstorm and other weather related warnings, all senior officers of KMC are included in that group. KMC senior officers will receive the information from the group and the same will be circulated to the DDMA members through DDMA WhatsApp group as well as to the HQ Control Room and Borough Control Room of KMC.

7.1.3 District Meeting

After any big calamities in Kolkata District, Honourable Mayor of Kolkata chairs a meeting with senior officers from all concerned department regarding relief and reconstruction works.

7.1.4 Activation of EOC

There is no EOC in the Kolkata District but there is a control room in KMC head quarter. In KMC control room there is provision for special arrangements during monsoon months (from April to November). After getting warning from state government the KMC control room will be manned by senior officers. There will be continuous coordination among fire control room, police control room, State EOC and KMC control room.

7.1.5 Seeking external help for assistance

If assistance is required from any state or national government, the matter will be brought to the notice of the State Government through Honourable Mayor and Municipal commissioner of KMC. State will perform further course of actions.

7.1.6 Reporting

There will be continuous coordination among fire control room, police control room, State EOC and KMC control room regarding situation report. The decision of media release will be taken by district and state authority.

7.1.7 Demobilization and winding up

Every control room will prepare their own report regarding actions taken by them during emergency. The departments who were there in field for rescue works may prepare their own report regarding success stories or lessons learnt for future reference. These reports will be documented by district authorities and will be circulated to the members of DDMA and State Authority.

8. RECONSTRUCTION, REHABILITATION AND RECOVERY MEASURES

Post disaster, the main work of district administration is to restore normalcy to the lives and livelihoods of the affected population. Short- term reconstruction requires return of vital life support systems to minimum operating standards while long term rehabilitation will continue till complete redevelopment of the area takes place.

After any big calamity an interim report is being sent to State Disaster Management Department from KMC. In that report a rough idea of damages and also the data on loss of lives is included. In that report further requirement of relief materials and assistance is being mentioned.

If there is damage of Hutments, slums or Jhupri due to natural or man-made calamities, loss assessment reports are sent by the KMC borough engineers to the KMC (HQ) after site inspection. KMC provides one time financial assistance to the victims for the repair of the houses from KMC Disaster Management Fund. In case of large scale damages of dwelling houses, KMC Borough engineers send the damage report as per the State Government rate after which the same report is being sent to State Government for House Building Grant by KMC (HQ). Damages of big markets, shopping malls, housings, other business establishments etc. do not come under the purview of KMC as these establishments are covered under fire insurance etc. Loss assessments are calculated by licensed private surveyor/assessor.

Restoration of all the roads within KMC jurisdiction will be done by Road Department of KMC. Restoration of Electricity supply will be carried out by CESC after

getting the clearance from Fire and Emergency Services Department, Kolkata Police and KMC. If there is any disruption or contamination in the water supply, KMC water supply will restore the drinking water supply. Restoration of telephone / internet connectivity will be performed by respective service provider. DMG Kolkata Police tree cutting team and Parks and Square and Urban Forestry Department of KMC will cut the uprooted trees and SWM Department of KMC will remove them. If there is any collapse incident, the SWM Department of KMC will clear all the debris from affected place.

9. FINANCIAL RESOURCES FOR IMPLEMENTATION OF DDMP

The **State Disaster Response Fund (SDRF)** is the primary fund available with States for disaster response and is constituted under Section 48 of the [Disaster Management Act, 2005](#). According to the recommendation of the Thirteen Finance Commission, money from the State Disaster Response Fund is spent for providing relief to the Calamity hit people. Both the Central and State Governments contribute to this fund in a ratio of 75:25. In any emergency situation, the fund is subsequently sub-allotted among the districts and Director of Disaster Management for undertaking search & rescue and relief work. Other Departments concerned with this kind of work and reconstruction are allotted funds in accordance with the recommendations of the State Executive Committee.

The State Cabinet on 18/01/2018 had approved the creation of a **State Disaster Mitigation Fund (SDMF)** under section 48 of the Disaster Management Act, 2005. Mitigation measures can be engineering or non engineering or structural or non structural. The mitigation action can be grouped into broad categories are:

- Property Protection
- Public education awareness
- Emergency Services

KMC receives **ex gratia grant** from the Department of Disaster Management and Civil Defence. KMC sent requisition for **House Building Grant** to the Department of Disaster Management and Civil Defence as per the change rate of HB Grant (2014).

In KMC budget there are provisions of fund for Disaster Management Program (capital and miscellaneous expenditures)

10. PROCEDURE AND METHODOLOGY FOR MONITORING, EVALUATION, UPDATION AND MAINTENANCE OF DDMP

District Disaster Management Authority is responsible for maintaining and reviewing the DDMP. KMC as a nodal organisation is presently maintaining and reviewing the DDMP taking data and information from different line departments. After preparation of DDMP it is being sent to State Disaster Management Department for evaluation. The DDMP of Kolkata is being updated once in a year. After preparation of the DDMP the signed copy is being sent to State Disaster Management Department for uploading the same on the departmental website.

11. STANDARD OPERATING PROCEDURES (SOPs) AND CHECKLIST

11.1 Seasonal S.O.P of Kolkata Municipal Corporation (Water logging, Cyclone), 2019
(Senior level officers of various departments of KMC have been designated with their responsibilities to tackle any emergency situation arising from heavy monsoon rains (April-November). The actions as outlined are given below:

11.1.1 Parks & Squares Department (Removal/ Cutting of uprooted trees from the road- side)/slum areas

- On every single day in the week, there shall be one team (consisting of one Supervisor and five labours with one lorry) placed at each Borough office from 6-00PM to 6-00 AM in Boroughs I to X and one team (consisting of one Supervisor, 4 labours with one lorry from 6-00 PM to 6-00 AM in Borough XI to XVI. Each Supervisor will have a mobile phone. The teams will be centrally controlled by Parks & Squares Dept. in order to facilitate inter-Borough movement, if required. On Sunday & Holidays, there will be round-the-clock arrangements at each borough at the above scale.
- Apart from the above, in the control room, there will be two (2) contractual gangs consisting of one (1) supervisor and four (4) labours from 6.00pm to 6.00am. Each supervisor will have a mobile phone. Team of the Control Room will be directly under the Botanist who will also attend control room every day from 10.00pm. to 6.00am. and round the clock on Sunday & holidays in shifts. Two (2) no of hired lorry will be stationed at central control room every day from 6.00 pm to 6.00 am and round the clock on Sunday & holidays.
- Two hired crane will be stationed at control room from 6.00pm. to 6.00 am for emergency removal of uprooted big trees from any part of the city and one hired vehicle (Tata Sumo type) will be stationed at Control Room from 6.00 pm. To 6.00 am for carrying out emergency inspection and also for immediate attending at the disaster hit site.
- Five(5) Hydraulic Ladders will be stationed during night from 6.00pm to 6.00am.- one (1) at Control Room, One(1) at Tala Park and one(1) at Br.-IX office at 11, Belvedere

Road ,one(1) at Br-X office and one(1) at Kurjon park for taking care of any un towards situation at night.

- Mobile phone connectivity will be alive between the different teams for enabling the Control Room to divert from one place to another place.
- D.G. (Parks & Squares), Dy. C.E (P & Sq.)-I, Dy. C.E (P & Sq.)-II, Ex. Engr. Of Parks & Squares may be allowed to use hired vehicles during Sundays, holidays and beyond office hours as and when required.
- All the leaves, branches, trunks of the uprooted trees may be removed by Parks & Squares department but branches of trees, leaves etc. etc. from trimming of trees will be removed by SWM deptt. In consultation with the Parks & Squares department.

List of key Officers/ Engineers

Name	Designation	Contact Details
Sri Debasish Chakraborty	D.G (Parks & Sqaures)	98368-86508
Sri Somenath Sen.	Dy.Ch.Engr. (P &S),	98306-02809
Sri Santanu Roy	Dy.C.E. (P&S),	94333-93586
Sri Banibrata Samaddar	E.E.(C)/ P & S	98317-06627
Sri Chanchal Mondal	Asst. Horticulturist	94334-34428
Sri Sukanta Ghosh	Arboriculture Overseer	98305-61451
Sri Tarun Mondal	Arboriculture Overseer	98311-90035
Sri Susanta Ganguly	Arboriculture Overseer	98366-72159,
Sri Avik Mukherjee	Botanist	98746-14998
Sri Laxikant Murmu	Botanist	97755-80416
Sri Ritam Mondal	Botanist	96810-31894
Sri Subhopsad Bhattacharya	Botanist	89613-76419

11.1.2 Lighting & Electricity Department (Removal of uprooted lamp posts and tractions)

- In each of the 16 Boroughs there will be one team everyday from 4-00 PM to 8-00 AM in the next morning with each team having one electrician, two helpers, one car and one mobile phone. On Sundays and holidays such arrangements will be there on 24-hour basis.
- On every weekday between 4-00 PM to next day 8-00 A.M, one team will be placed in the Central Control Room. Each team will have one electrician, two helpers, one car and a mobile phone. On Sundays and holidays such services will be made available on 24-hour basis.
- Each night, there shall be an additional special squad available in CMO Building with one generator of 5 KVA fitted vehicle, having one electrician, one helper with one mobile phone and four numbers 250W metal halide lamps in vehicle.

List of key Officers/ Engineers

Name	Designation	Contact Details
Sri Sanjoy Bhowmik	DG(Elec),	98303-24348
Sri D.Das	Dy. C.E. (Ltg.)	98303-21637
Sri Rajib Banerjee	E.E.(Ltg.Zone-I)	98308-31808
Sri Bijan Halder	E.E. (Ltg., Zone-II)	98748-22082
Sri J. Jana	E.E. (Ltg. Zone-III)	94331-06613
Sri Basab Patra	E.E. (Ltg. Zone-IV)	94338-99378

Sri Pintu Das	E.E.(Ltg. Zone-V)	98306-16541
Sri Amitava Roy	E.E.(Ltg. Zone-VI)	98303-91678
Sri Nabarun Sarkar	E.E. (Elec.-I)	94337-22131
Tapas Makal	E.E.(Elec.-II)	97335-16312
Sri Subrata Sinha	Ex.Engr. (Elec.)/HQ	967470-6452
Sri Siddhartha Samanta	Ex.Engr. (Elec.)/CMO	923161-2888

11.1.3 Solid Waste Management Department (Cleaning of gully-pit mouths and other related work)

- To clear the city streets (especially the gully-pits and kerb channels) in the afternoon shifts everyday so that sudden showers cannot clog the city and sub-merge particular areas (Mazdoors are from West Bengal Urban Employment Scheme) upto 6.00 pm.
- Arrangement of five mazdoors along with an overseeing supervisor in each Ward from departmental resources from each Borough/ward in night shift from 6.00 pm to 6.00 am.
- D.G (SWM) will keep one loader, two Lorries, a team of 17 Mazdoors, heads by two supervising staff with mobile phone from 6.00 pm. to 6.00 am daily and from 6.00am to 6.00 pm. + 6.00 pm. to 6.00 am (24hrs) on Sunday & holidays, who will be stationed at SWM (HQ) at 48, Market Street, Kolkata-700 087.

List of key Officers/ Engineers

Name	Designation	Contact Details
Sri Subhasish Chattopadhyay	D.G.(SWM)	98365-36419
Sri B. Rakshit	Dy.C.E.(S.W.M.-II)	98305-82716
Sri Biswanath Naru	Dy. Dir-III(SWM-I)	94333-69114

11.1.4 Drainage Deptt (Deployment of Control Room Management, continuous operation of pumping stations, deployment of mazdoors at water logging pockets, deployment of pumps etc)

- **MANNING OF PUMPING STATIONS**
There will be round the clock manning in BDPS, PBPS, DLPS, pumping station with at least one A.E. perpetually available in each shift. One Assistant Engineer should be posted at night shift at BDPS, PBPS & DLPS. In case of MDPS, one AE / SAE will be posted round the clock.
- **MANNING AT THE WATERLOGGING POCKETS**
A. There are three FLOOD CONTROL centres (Hrishikesh Park, Moulali & Traingular park) in Town System & suburban system area. In week days, manning will be done from 11.00 A.M. to 9.00 P.M. in Sunday/ holiday manning will be done from 11.00 am to 4.00 pm & 4.00 pm to 9.00 pm. The programme will be led by at least one SAE.
B. There is ONE FLOOD CONTROL Centre (Ultadanga syphone pumping Station) in Manicktala system area. There will be manning in flood control area by Contractual Majdoors perpetually available in one shift from 11.00am. to 7.00 pm. under supervision of S & D dept. Arrangement to combat the flood on Central Avenue from Collutola Street to Muktaram Babu Street during the festive season 2 Nos. Gullypit

Emptiers, 2 Nos. Jetting-cum-Suction machines will be deployed round-the-clock at the KMC Control Room with required numbers of mazdoors and operators. 2 Nos. 6”pumps and 2 Nos. 4” pumps will be deployed round the clock at the KMC Central Ambulance Garage beside Md. Ali park with required number of mazdoors and operators. Emergent instruments / apparatus arrangements during festive days 2 number of Jetting/ Jetting-cum-Suction machines would be made available at each of the North, Central and South garages i.e. total of 6 Nos. Jetting-cum-Suction machines with required number of mazdoors and operators will be available.

- **DEPLOYMENT OF PUMPS:**

Total 82 nos pumps will be deployed at water-logged pockets in Borough-I to Borough-XVI. On June onwards officials of Drainage and Borough will jointly confirm the function of pumps. Borough Ex. Engr. will supervise and monitor the operation of the said pumps till mid of November.

List of key Officers/ Engineers

Name	Designation	Contact Details
Sri Amit Kr. Roy	D.G (Sewerage & Drainage)	94330-93803
Sri Mridul Mondal	Dy. C.E. (Civil)/North	99033-35919
Sri Santanu Ghosh	Dy.CE(C)/Central	90078-38329
Sri Tarun Kanti Ghosh	Dy.CE(C)/South	9903172751
Sri Snehasish Samanta	Ex. Engr.Dr. (N)	9433625406
Sri Swapan Chattopadhyay	Ex. Engr (Dr)/C	9433991855
Sri Sandip Das	Dy. C. E. (Elec.)-Pumping Stations	94337-26103
Shri Tapan Sarkar	Ex. Engr(E)/MDPS	80137-63737
Sri Pradip Kumar Nandy	Ex. Engr(M)/DLPS	9433112634
Sri Kajal Kr Roy	Ex. Engr(E)/BDPS	98742-72283
Sri Supriyo Sengupta	Ex Engr(E)/Kudghat	98303-11559
Sri Biswanath Das	Ex Engr(M)/Palmer Bazar	98301-0972
Sri Bishnu Das Mondal	Dy. C.E. (M)/S.C. Deptt.	98303-25216
Md. Minhazuddin	Ex Engr (M)/ S.C. Deptt.(North and Central)	9474747033

11.1.5 Engineering Department (Deployment of skeleton majdoors at water logging pockets, deployment of potable pumps etc.)

- Skeleton gang comprising of 1 mazdoor per ward from Br. I to X and 1 Drainage Sarkar will be posted at each Borough Office Control Room in two shifts from 6-00 AM to 2-00 PM & 2 P.M. to 10 P.M. on Sundays and holidays along with one Sarkar on each shift. One SAE or AE will be posted on each shift preferably SAE should be posted in the morning shift and AE should be posted in the evening shift in all Boroughs including Joka.
- On weekdays similar arrangements will also be made from 2 P.M. to 10 P.M. at each Borough Office. Mazdoor and Sarkar who will attend office from 2-00 PM to 10-00 PM on working days, will remain absent in the morning shift. One AE will stay at Borough Control Room till 10 p.m. on all working days.
- Mazdoor under West Bengal Urban Employment Scheme should be posted at the listed water logging from in two shifts from 8 a.m to 1 p.m. and 1 p.m. to 6 p.m. during the entire monsoon period (from 10th June to 15th November). Borough Executive Engineers will engage the said experienced mazdoors in consultation with Borough Chairman/Chairperson.. The number of mazdoor should be decided by the

Bor. Ex. Engr. according to water-logging pockets in consultation with Zonal Dy. Ch. Engineers and DG (Civil). In case of added area i.e. Borough – XI to Borough – XVI, similar arrangements i.e. mazdoors should be deployed from West Bengal Urban Employment Scheme from 10th June to 15th November.

- In case of suspension of work under West Bengal Urban Employment Scheme, deployment of contractual mazdoors may be engaged at minimum numbers according to priority with prior approval of Municipal Commissioner if situation demand during heavy rain.
- Ex. Engr (C) XI to XVI will arrange to 6 nos of mazdoor for to attend the emergent water logging pocket as and when required from 6 am to 10 pm. from 10th June to 15th November.
- One hired P.R. lorry should be kept at each Borough office 6-00 A.M to 10-00 PM for movement of mazdoors from one water-logging pocket to another water-logging pocket.
- One hired vehicle preferably Jeep/Tata Sumo should also be kept at Borough office 6-00 AM to 10-00 PM for movement of Asst. Engr./SAEs posted at Bor. Office Control Room for supervision of skeleton gang and for other requirement as and when necessary. In case of hired vehicles run by diesel, normal rate as permissible in KMC including overtime will be given. Normally 5 liter diesel will be provided. In case of extraordinary movement during heavy shower, additional fuel will be issued on specific recommendation of Bor. Ex. Engr. with prior approval of DG (C)
- Bor. Ex. Engrs. I to XVI, Zonal Dy. Ch. Engr. (Central, Central-West , North & South) and DG (C) may be allowed to use hired vehicles during Sundays, holidays and beyond office hours as and when required.
- All the mazdoor, Sarkars including mazdoors under West Bengal Urban Employment Scheme contractual mazdoors should attend water-logging pockets with proper dress and identity cards supplied from KMC with red flags and other necessary equipments.
- Deployment of portable pumps – sufficient nos. of portable pumps will be deployed by Borough Executive Engineers according to need basis in consultation with zonal Dy.CE(C)'s & Chairman/ Chair Person of Borough.
- In case of heavy rain at night, Borough Ex. Engr. will arrange to keep the Borough Office open with required number of mazdoors, Sarkars and other overseeing supervisors according to need basis as and when desired by the Authority
- On working of Sundays & holidays if massive rainfall occurs, sufficient gang/additional mazdoor will be deployed and supervising staff.
- Two nos. Flood Control Centre, one at P.C. Connector another one near Akashbani Bhawan should be opened and operated during monsoon period i.e. from 10th June to 15th November. In the said Flood Control Centre 4 nos. mazdoors including another 4 nos. workers under Urban Employment Scheme should be posted from 6 a.m. to 10 p.m. One supervising staff should also be posted at the said centre; one SAE/AE of the said Borough will supervise about the activity, as and when required. 2 nos. pumps should also be kept ready for immediate deployment, round the clock. EE – VII and V will take necessary measure. Zonal Dy.CE will monitor the said Flood Control Centre and will inspect frequently.

List of key Officers/ Engineers

Name	Designation	Contact Details
Sri P. K. Dhua	D.G.(Civil)	98303-24329
Sri Mridul Mondal	Dy. C.E.(C) / HQ & Central , Br.I,II,III,VII&VIII	99033-35919

Sri M.K. Mondal	Dy.C.E. (C)/ (C-W) Br.IV, V,VI, IX & XV	94334-25822
Sri Kamal Sarkar,	Dy. C.E. (C) /South, Br. No- X,XI,XII,XIII, XIV, XVI	96742-79805
Sri Swapan Karmakar	E.E(C), Br. – I	94331-12272
Tushar Chandra Chowdhury	E.E(C), Br. – II	98306-20633
Sri Kalyan Das	E.E(C)., Br.- III	98315-18635
Sri Debasish Chatterjee	Dy.CE (C)/E.E(C)., Br.-IV	98740-45716
Sri Tushar Kanti Maji	E.E(C)., Br- V	98303-24328
Sri Anup Kumar Saha	E.E(C)., Br.-VI	98301-20243
Sri Jayanta Sarkar	Dy.CE (C)/E.E(C)., Br.-VII	94338-99765
Sri Anindya Kr. Ghosh	Dy.CE (C)/E.E(C) Br.-VIII	98304-78904
Sri Dinabandhu Boral	Dy.C.E.(C)/E.E(C).,Br.-IX	94335-31022
Sri Subhasish Bhattacharya	Dy.CE (C)/E.E(C).,Br.-X	98313-49740
Sri Sunil Kr. Saha	E.E(C), Br.-XI	94338-67289
Sri Pinaki Bhattacharya	Dy.CE (C)/E.E(C), Br.-XII	9831635931
Sri Sanjoy Kr. Mondal	Dy. CE/E.E(C), Br.-XIII	98303-45868
Sri Jagannath Dey	E.E(C)/Br-XIV	89818-81366
Sri Utpal Mistry	E.E(C), Br-XV	98300-18733
Sri Anupam Guha	Ex. Engr(C), Borough XVI	98303-65991

11.1.6 Roads Department

- DG (Roads) will keep necessary arrangements in case of urgent need for road repairing work.
- D.G. (M)/Roads will provide one no. pay loader & 2 Nos. Tipper Trucks along with Driver, Helper as well as one no. SAE (M) will be deployed at Control Room round the clock including Sunday & holidays to report to DG (Parks & Square) & D.G. (Bldg-II)

List of key Officers/ Engineers

Name	Designation	Contact Details
Sri Soumitra Bhattacharya	DG (Roads)	98300-43982
Sri Bipalab Roy	DG (Mech.)/Roads	94330-91094
Sri Dipankar Pal	OSD/Roads	98303-24327
Sri Samiran Ghosh	Dy. CE (C)/Ex.Engineer (C) (Roads/South) Br- X, XII to XIV	98307-64057
Sri Rihan Sanyal	Dy. CE/Ex.Engineer(Roads/South) Br- XI	98311-17751
Sri Soumendra Nath Ghosh	Ex Engr. (C)/Roads/South, Br- VIII&X	98301-07553
Sri Dhirendralal Das	Ex Engr. (C)/Roads/South, Br- XV&XVI	98308-39760
Sri Debabrata Das	E.E.(C)/R/N Br- I,II,IV to VI	9831235711
Sri Debasish Basu	E.E.(C)/R/N Br- III & VII	86978-08761
Sri M. Samaddar	Dy.C.E. E(M) &Controlling Officer(EWS)	94331-47668
Sri Dibendu Sen	E.E.(C)/P/ Palmer Bazar	98304-73358
Sri Kalyan Samjdar	E.E.(C)/P/ Goragacha	94334-59482
Sri Mihir Kumar das	E.E.(M), Road Roller	98302-44874

11.1.7 Building Department (Demolishing of insecure building and negotiation of collapses)

- On every working day from 10-00 PM to 6-00 AM in the next morning, there will be a team in the Control Room from the Building Department with one Asst. Engineer, as head of team, one Sub. Asst. Engr. in the team, two gangs of 10 labourers with one supervisor each along with a lorry and a mobile phone and a high level vehicle and mobile phone with the Asst. Engr. and the Sub. Asst. Engr.
- The same arrangements as above will be available in the Control Room and on Br-IV and Br-IX on round-the-clock basis in three shifts on Sundays and holidays.
- D.G. (SWM) will keep one pay-loader, two Lorries & a team of mazdoors (headed by one supervisor with mobile phone) on every working day from 09.00 PM to 5.00 AM and round the clock basis on Sundays & holidays in the control room.

List of key Officers/ Engineers

Name	Designation	Contact Details
Sri Anindya Karforma	D.G. (Bldg)	9830324310
Sri Sukanta Das	D.G(C) (Bldg.-South) (Br- VII - XII	98361-27236
Sri Krishna Bhattacharya	Dy. C.E. (Building)/ South-West (XIII to XVI)	94333-93979
Ujjal Kumar Sarkar	Dy. C.E. (Building)/ North (Br I to VII)	98310-14687

11.1.8 Health Department (Ambulance Services, disinfection & supply of medicine)

- Ambulance services will be made available round-the-clock from the under-mentioned Borough offices to carry casualties, if any, to the nearest hospital
 - i. One ambulance at K.M.C. headquarters ;(except holidays when it will be available from Amb. HQs), three ambulances at ambulance head quarters at C.R.Avenue beside Md.Ali Park.
 - ii. One ambulance at Br-XI, one ambulance at Br-XII and one ambulance at joint office of Bor. XIII & XIV.
 - iii. One Ambulance at the Borough XV office and ne Ambulance at the Borough XVI office.
- To meet the emergent situation during heavy shower, necessary disinfection works with bleaching powder will be undertaken jointly with the SWM Department While the SWM Department will look after disinfection of arterial roads, the KMC Health Department will conduct disinfection in slums.
- Central Medical Store will remain open round-the-clock to meet the emergent situation.

List of key Officers/ Engineers

Name	Designation	Contact Details
Dr. Manirul Islam Molla	C.M.H.O.	9302-41660
Dr. Subrata Roychowdhury	Dy.C.M.H.O. III and SPIO (Health)	98300-11041
Dr. Basudev Mukherjee	Dy. CMHO VI & (In charge of Br- II)	98300-62150
Dr. Manas Som	Suptd. C.M.S	98361-54491

Ambulance HQs. Phone No. 2219-7202

11.1.9 Water Supply Department (Supply of drinking water and disinfection of tube well and stand post.

- Water tanker will be available on 24 x 7 basis from the office 6 Convent Road and Park Circus Booster Pumping Station.
- In case of heavy shower during monsoon sufficient gang will be deployed for disinfection of the stand posts and tube-wells at the water logging pockets.
- Maintenance gang will be available on 24 x7 basis at 6 Convent Road.

List of key Officers/ Engineers

Name	Designation	Contact Details
Sri Bibhas Maity	CEO & Ex- Officio DG (WS)	98303-79939
Mainak Mukherjee	D.G (W.S.)-I	98303-17475
Sri Amitava Pal	Dy.C.E.	98316-30682
Sri Kartik Ch. Ghosh	Dy.C.E.(C)	98312-72690

11.1.10 Municipal Secretary's Department (Manning of KMC Control Room)

- The Control Room will be manned at two levels:
 - a) At one level, as usual, there will be three shifts in the Control Room and in each shift there will be one Dy Manager deployed by the Mpl. Secy. and the said Dy. Manager will be designated as O/C, Control Room. It will be the duty of O/C, Control Room to liaise with all other teams of different departments as mentioned above. Chief Manager (P) will allot the Dy. Manager.
 - b) At another level, the DG (S&D) will keep at least one Ex. Engr. every night from 10-00 PM to 6-00 AM in Control Room. The said Ex. Engr/Dy.Ch. Engineer comprising of S.C.deptt. Pumping station and drainage deptt. will leave the Control Room in the next morning immediately after reporting his reliever. On Sundays and holidays also he will keep the Ex. Engrs. in three shifts. On working days during the office hours he will keep at least one Asst. Engr./Sub Asst. Engr. in the Control Room.
- As far as the general staff of the Control Room is concerned, they will be doing all the duties relating to the Control Room. But the specific duty of alerting Drainage P.S. will lie on the officer of D.G. (S & D). The Officer-in-Charge of the shift in Control Room will contact any Controlling Officer or any other officer or Borough Control Room as mentioned above, in tying-up the management of emergency and the controlling officer/other officers/Borough Control Room will use the Control Room for dispatch of messages.
- One Officer will be posted at Lal Bazar Control Room during the heavy rainfall days.
- Municipal Secretary's Deptt. will ensure accessibility to the tarpaulins, dry fruits, clothes, D.M. kit etc. and will send to the desired locations as and when required during catastrophe.
- Arrangement for keeping open the various offices of the C.M.O. Buildings.

List of key Officers/ Engineers

Name	Designation	Contact Number
Sri Harihar Prasad Mondal	Municipal Secretary	98366-65845
Sri S L Mukherjee	Add. Secretary	98304-00013
Sri Amit Kumar Roy	D.G. (S&D)	94330-93803

Sri S. Bhowmik	DG (Elec.)	98303-24348
Sri Dipankar Dutta	S.O. Caretaker Unit	9231511630

11.1.11 KEIIP

- D.G. (Project) KEIIP will arrange to deploy AE/EE/Dy. CE at Bor. XI (Part of 111 to 114), Bor. XIII (Part of 122), XIV (part of 128 to 132) & XVI (part of 123 to 126) during the monsoon period to support officials of Bor. & Drainage department for proper functioning of S & D work under KEIP.

List of key Officers/ Engineers

Name	Designation	Contact Number
Sri, Soumya Ganguly,	D.G. (P) KEIIP	98310-80056
Sri Subhajit Dasgupta (For Bor-XIII & XVI Part)	Dy.CE (C)-I	98300-60382
Sri Ashutosh Ghosh (For Bor- XIV & XVI Part)	S.O (Engg.)	98307-10756
Sri Tapas Bose (For Bor-XVI Part)	S.O.(C)	98300-94276
Sri, Uday Ranjan Saha (For Bor-XIII & XVI Part)	E.E.(C)	94335-52366
Sri Ashok Roy (For Bor-XIV & XVI Part)	E.E.(C)	72783-18783
Sri Samir Baran Das (For Bor-XI & XIII)	E.E.(C)	9143573423
Sri Subha pal Chowdhury(For Bor-XIII)	E.E.(C)	98307-44170
Sri Santanu Das (For Bor-XI)	Dy.C.E.(C)	98306-71296
Sri Amitava Mukherjee (For Bor-XI)	E.E.(C)	9026-89703
Sri Pradip Kumar Saha	E.E. (C)	98364-77620

11.1.12 Inspection of the Drainage Pumping Station

Following officers of K.M.C. will inspect the Pumping Station, as & when required, till 15/11/2018 to supervise and monitor the pumping station during the monsoon period.

Name of D.G. / Dy.CE	Jurisdiction / Area of work
Bibhas Kumar Maity, D.G. (W.S)	Mominpur Dr. P.S., Nimakmahal Dr. P.S., Chetla Lock Dr. P. Stn.
P.K. Dhua, D.G. (Civil)	Southern Avenue Dr. P. Stn.
Amit Kr. Roy D.G. (S&D)	Ultadanga PS., Slip Road (Durgapur Bridge), Ultadanga Underpass, Ultadanga Syphon, Manicktola Syphon, Murari Pukur P.S., Rajabazar P.S., Manicktala P.S.
Anindya Karforma, D.G. (Bldg.)	Ambedkar Bridge P.S., (A) DWF, (B) SWF ; Chinrighata P.S., BDPS, DLPS, Manicktola Dr. P.S. Gouribari P.S. (KMWSA), Chowl Patty P.S.
Tapas Kr. Mondal, DG-OSD (C) Tolly Nullah	Jodhpur Park Dr. P.S., L.S.3/GAP Ph.-I, L.S.4/GAP Ph.-I, LS.6/GAP Ph. – I, L.S. 7/GAP PH. –I.
Soumya Ganguly, D.G. (Project) /KEIP	Kalighat Dr. P.S., Gokhal Rd. P.S., L.S.9 (Kantapukur PS.), LS – 10 (Majherhat PS), L.S.2 (Theckary Road)/ GAP Ph – I, LS 3 (Sashi Sekhar Bosse Road)/GAP Ph.-II, L.S. – 4 (Canal Road) / GAP Ph. – II, CPT Canal P.S. (KEIP)
Soumitra Bhattacharya, D.G. (Rds.)	L.S. 1/Buroshibtola, LS 5/Kudhgtat, LS 2/Lames Long Sarani, Canal Rd. Pumping Stn., Sirity (B.L. Saha Rd.), Keorapukur Main P.S.
Debashish Chakraborty, D.G. (Bldg. – II & P&S)	Jingira Bazar Dr. P.S., Sukuntala Park (Node C), Behal Flying Club (KEIP)

Sanjoy Bhowmick, D.G. (Ltg.)	P.S. 1, BAGHAJATIN, PS 2 Jorabridge, PS 3 Rajdanga, PS 4, Nonadanga, Chak Garia (A) DWF (B) SWF, Kasba (A) DWF (B) SWF, Chowbhaga PS, (I&W Dte.)
Mainak Mukherjee DG (ppp)/OSD (WS)	Macus Square P.S, Hrishikesh Park PS (Thanthania) , Jagannath Ghat P.S.
Biplab Roy D.G. (Mech) /Roads dept.	PBPS (A) DWF (B) SWF, Kulia Tangra PS, Pagladanga PS, Topsia Point A P.S. (A) DWF (B) SWF.
Debashis Ghosh D.G. (MPLAD)	Noapara Dr. PS, Bangur PS, Bangur MPS, Dutta Bagan PS, Beerpara PS, Belgachia PS, LS 1(Beside Ratan Babu Ghat) LS 2 (KP Singh Rd.) LS 3 (B.T. Road), Cossipore P.S., Beerpara New P.S. (KEIP)
Subhasish Chottopadhyay D.G (SWM)	Trenching Ground L.S., Dhanketi khal LS, Kabardanga PS, Kalgachia PS, Podirhati P.S.
Debasish Chakraborty (DG Env. And Heritage)	Kamdahori PS (A) DWF (B) SWF, P.S. II Jora Bridge, LS 1A Rathtala (Garia), LS 1B Usha Gate (Rani Nagar Garia) LS 2A (Bansdroni), LS 2B (Kudghat Kali Bari), LS 5 Kudghat, Baishnabgha Patuli PS.
Sukanta das (DG Bustee)	PS –II Jora Bridge, LS 1A Rathtala (Garia), LS 1B Usha Gate (Rani NagarGaria)

11.1.13 Review meeting

- A coordination meeting in connection with the monsoon activity during the entire monsoon period will be held at Bor. Office on every Wednesday at 2 p.m. Officials of Drainage. P&S, Bldg., SWM, W.S.& Health will attend in the said meeting to review the different matters related with the different department concerned. Mpl. Commissioner will review the outcome of the said meeting on every Saturday at 12 noon
- Similarly, concerned controlling officers will also arrange a meeting at their level with the concerned officials under his control on every Friday at 2 p.m./ 4 P.M. Finally, Mpl. Commr. will review the different problems, solutions related with the monsoon activity including operation of pumping station, uprooted trees, water logging, repairing of roads, supply of relief materials with the concerned controlling officers (Tech. Advisor, CMFA, Mpl. Secretary, D.G. (Civil), D.G. (WS), D.G. (Project) KEIP, DG (S&D), D.G. (P&S), D.G. (Rds.), DG (M), DG(Elec.), CMHO, will join in the said meeting on every forth night.
- Bor. Ex. Engineers will also join in the meeting through video conference.
- Special. M.C. (G/D) & Jt. M.C. (Rev.) will also review about the monsoon activity from their end.

****The same SOP will be developed for 2020**

11.2 SOP of WB Fire & Emergency Services Department

The objective of the Emergency Operations Plan is to mobilize of the entire Fire Directorate an elevated level when circumstances require a commitment beyond normal capabilities. The activation of this plan will cause the Fire Directorate Emergency Operations wings to go into operation. All appropriate command officers will respond to that location.

The general categories of situations that would cause the activation of the Emergency Operations Wings:

- One major incident affecting a localized or widespread area.
- Two or more working incidents causing a high demand for resources at different locations.

- Numerous simultaneous incidents causing a peak demand on the entire system.
- The Director General or the Director, W.B. Fire & Emergency Services may activate the Fire Department Emergency Operations Wings.

The purpose of the Fire Department Operation Wings will be to bring appropriate command officers together at a central location and to:

- Analyse the emergency situation
- Determine what fire department and other department resources are needed for the emergency
- Place additional apparatus in service and deemed necessary
- Recall appropriate personal resources as necessary
- Make fire department policy regarding the department's response and management of the emergency
- Prioritize response and resources as necessary
- Select and provide command officers to staff the City's Emergency Operations Center if opened.

Each member of the Fire Directorate is assigned specific roles and responsibilities in order to support emergency operations. It is the responsibility of each Division and section to be prepared to function according to these guidelines whenever the need is identified.

Emergency Operations Wing's immediate tasks and decisions

The command officer staff reporting to the Fire Department Emergency Operations wings will be responsible for the following decision and tasks:

- Confirm the headquarters are manned and prepared to initiate recall
- Determine the need for and initiate additional staffing of the Reserve room.
- Determine the need for a command officer to assume the Strategy Officer position at Headquarters
- Confirm a Fire Department Emergency Operations wings liaison is established and functioning at the incident command post(s)
- Confirm the resource management has been opened and reserve apparatus and equipment is being prepared for service as necessary
- Determine what apparatus needs to be placed in service and activate apparatus as deemed necessary
- Determine what personnel resource needs to be recalled and initiate recall as deemed necessary
- Determine/ select reporting stations/ locations for recalled personnel
- Make personnel assignments as necessary

Strategy officer

A strategy Officer generally assigned to the incident site by the fire Department emergency Operations wings. This strategy will responsible for:

- Determining the need for call back of additional personnel/ officers.
- Directing move-ups and deployment adjustments

- Assisting the senior officers at the site
- Establishing a liaison communication link between headquarters and the Fire Department Emergency Operations wings (may also include a liaison with the other city emergency operation(s))
- Provide frequent progress reports to the Emergency Operations Center (s)/headquarter
- Manage news media and other agency inquiries

In the event of a major disaster in the metropolitan area, the Director General, W.B. fire & emergency services or the Director will be responsible for directing the response, deployment and redeployment of fire department resources in conjunction with the Fire department Emergency Operations wings direction and policy throughout the area in accordance with the existing provisions and rules.

11.3 SOP of DMG (Kolkata Police)

(A) DMG PLAN The DMG of Kolkata police over a period of time has evolved a methodology to respond to disaster situation. The outline of the Disaster Risk Reduction plan on receiving first hand information, the under mentioned actions will be initiated:-

- (i) PREPARATORY STAGE (0+15 minutes)**. The first hand information of disaster is received through various sources and also from control room Lalbazar. The actions taken are as under :>
- a) Alert for mobilization sounded for DMG
 - b) The Nodal Officer and Sub Nodal Officer of Kolkata Police will interact with Jt Secretary Disaster management for update.
 - c) Ascertaining the precise location of the disaster
 - d) Collection of vital information regarding topography & demography of the affected area.
 - e) Advance possible safety measures undertaken by state Government around the affected zone for the safety of the people
 - f) Other Government & non government stakeholders to be alerted and to remain available for the disaster risk reduction mechanism
 - g) List of local resources and the detail map of the affected and surrounding areas to be collected.
 - h) List of local resources such as generators, tractors and cranes and advance action taken to provision them
 - i) DMG personnel start preparing for move as per instruction
 - j) Final checking of stores, equipment, accessories, tools
 - k) Loading of vehicles as per load tables
 - l) Advance Party with control post vehicle (to be used as ICP) to move

m) Establishing liaison by Senior Officers with Central Force (NDRF & ARMY)

(ii) ACTIVATION STAGE (0+30MINUTES)

- a) Situation to be monitored by D.C.P. Combat & S.F**
- b) Initial information /briefing to the troops on the following points:-**
 - Place & time of disaster
 - Number of people affected
 - Total area /distance affected
 - Route to the affected area/ medium of communication
 - Information about other rescue agencies operating if any
 - Nodal officers Contact numbers
 - Information about the location of ICP/on site Operation Coordination Centre
 - Location of Hospitals en-route
 - Initial deployment plan
 - Suggestion for the base of operation(out of hot zone.)
 - safety precaution en-route
 - Do's & Don'ts
 - Cross checking for ensuring confirming readiness
 - Obtain information from local P.S/Representative on site
 - Order of march

(iii) MOBILIZATION It will entail

- a) Operational mobilization within 30 Minutes.**
- b) Co-ordinate efforts with local P.S.**
- c) Control/signal centre to update DMG on move.**
- d) Advance Party officer to guide in.**
- e) Information sharing and briefing en-route.**

(iv) VEHICLES FOR MOBILIZATION All specialist vehicles will move with troops and equipment during mobilization as per under mentioned details :-

- a) C.S.S.R. & M.F.R. equipments carrier**
- b) High Ground clearance Vehicle (truck)**
- c) Small Vehicle.**
- d) Ambulance.**
- e) Water tanker**
- f) Vehicle carrying food for responders**
- g) Mobile Generator Set**

(v) OPERATIONAL STAGE (0+3HRS)- it will entail:-

- a) Establishing enhanced incident command post**
- b) Briefings**

- c) Co- ordination between Task force, single resource, strike team of operational section
- d) Information sharing both vertical and horizontal
- e) Co-ordination /information sharing between command, operation, planning, logistics & finance

(vi) STAGING AREA.

The staging area is commonly used in emergency management; however, the use of staging areas takes on some special meaning. A staging area is a temporary location preferably an open space for placing resources available for incident assignment. All resources in the staging area will be utilised during incident. Staging area can be setup at any appropriate locations or near incident area. Several staging areas may be used for a single incident. The resources proposed to be present are:-

- (a) Health Department Resources
- (b) Relief Material
- (c) Transport Department Resources
- (d) CESC + Power Department Resources
- (e) Heavy Earth Moving Equipment
- (f) Civil Defence Resources
- (g) Fire and Emergency Services Resources
- (h) NCC / CAPF / Army Representatives
- (j) Base Command Post
- (k) NGO Representatives
- (l) Traders Body Representatives
- (m) KMC Representatives
- (n) Irrigation Department Representatives
- (o) Port Representatives
- (p) Information and Cultural Affairs Representatives.

(vii) ESTABLISHMENT OF INCIDENT COMMAND POST (ICP)

(a) Initially, the ICP will be wherever the Incident Commander is located. As the incident grows it is important for the Incident Commander to establish a fixed location for the ICP and to work from that location.

(b) The ICP provides a central co-ordination points from which the Incident Commander, Command Staff, and Planning functions will normally operate. Depending on the Incident, other members of the General staff may be operating in other locations; however they will attend planning meetings and be enclosed contact with the Incident Commander.

(c) The ICP can be any type of facility i.e. available and appropriate, e.g., vehicle, trailer, tent and open area, or a room in a building. The ICP may be located at the Incident Base if that facility has been established.

(viii) CONTROL ZONES

- a) Area designated for troops to work.
- b) Initial first aid to victim.
- c) Advance party officer briefs DMG party at ICP
- d) Some instructions for locals.

(ix) **SOME INSTRUCTIONS FOR LOCALS:-** Some DOs and DON'Ts are :-

a) DOs.

- Stay calm. Allow little time for objects to fall before moving (earth quake scenario)
- Move cautiously and check for unstable objects and hazards above & around.
- Always remember that safety is the first and foremost criteria of a responder while entering in to a hot zone. Check your self for injuries, help injured or trapped victim using proper technique & equipments
- Check for fire and if any have it controlled
- Check your electric and water line which are in use for operation. If any damage suspected turn the switch off
- Check up the reserve of chemical/ toxic/ flame able material spill to avoid chain of un wanted events
- Listen to radio bulletin if possible for any emergency information.
- Make escape route for emergency situation
- Leave marks and message where rescue work carried out successfully or unsuccessfully

b) DON'Ts.

- Do not enter partially damaged buildings. Strong aftershock (in case of earth quake) can cause further damage.
- Do not use your mobile phone (if net work functional) to call your relative or friend. Use it only for disaster related purpose.
- Do not use motorcycle / vehicle inside the affected zone.

(x) **OPERATIONAL STAGE 0+12 HRS** it will entail:-

- a) Co-ordination with stake holders for necessary assistance for providing Excavators, tractors, bulldozers, & cranes work in progress.
- b) Additional forces of Kolkata police to ensure safety security, route opening, safe passage for responders.
- c) Additional forces of KP act as reinforcements.
- d) Provide MFR with their equipments to function as par plan.
- e) Records of recoveries maintained.
- f) Rest & relief of troops.
- g) Repair and change of equipments
- h) Communicate progress of rescue operation.

(xi) DEACTIVATION STAGE/WITHDRAWAL PROCESS

- a) When state Government confirms no hazards foreseeable and all victims are rescued.
- b) All clearance taken from respective departments
- c) Briefing, de-briefing, feedback points & lessons learnt are discussed with teams for future operation
- d) All breakages / loss/ malfunctioning are recorded and addressed.
- e) The physical and mental condition of DMG personnel are checked rest and relief planned.
- f) DMG to forward feedback and recommend measures for improvements & up gradation.

(B) ROLE OF CONTROL ROOM/INCIDENT COMMAND POST (ICP). The role of ICP is to act in close coordination with other agencies established near the disaster zone. The objective of the ICP is as under :-

- a) To carry out briefings at all levels to facilitate operations
- b) Information sharing both vertical and horizontal
- c) Facilitate planning for operational, logistic and finance chiefs
- d) Incident command post to ensure the clear lines of authority, supervision and communication in the entire operation in the affected area
- e) Will pass tactical instructions which must be clear for each assigned resource with reasonable time frame
- f) ICP to be upgraded to facilitate unified command structure having resource of all departments

WATER WING

DMG KP may be mobilised in case of any big exigency in the river or lake side ponds. The SOP for drowning is enclosed herewith.

INTRODUCTION:- Disaster Management Group was raised in Kolkata Police under specialized force in the year – 2002 for quick and effective intervention in the event of natural and manmade calamities. In the year 2002 DMG started with water wing team and since then rescuing the victims from ponds, lakes, rivers and wells frequently. The Kolkata City due to its heritage and culture celebrates most of the festivals on the banks of river Hooghly. A lot of accidents and deliberate act of suicide is increasing day by day. The DMG is entrusted with recovery of bodies and also to throw an umbrella of safety organization by deploying its divers at various Ghats during Festivals.

AIM To lay down procedures to carry out water wing operations.

PHASES :- Generally the underwater search and rescue operations are being carried out in below mentioned phases :-

PHASE 1 COMPOSITION OF THE TEAM (MEN AND MATERIALS):-

(a) There are two teams (QRTs) of water wing personnel comprising **divers and life savers**, remain stand by at PTS (round the clock) for water related exigencies. Apart from that a team with equipment fully loaded on custom build vehicle kept stand by at RTP for the day time to cope up any exigency on river Ganges especially under Kolkata Police water jurisdiction. Each team consists of 06 personnel.

(b) Generally the **equipment** which are loaded on custom build vehicles for day to day under water operations are as follows :

- i) 5 KVA Generator Set
- ii) Air Compressor
- iii) Long air duct up to divers reducer mask
- iv) Air connecting pipe (reducer to mask)
- v) Diving Suit, Diving Mask, Diving Gloves, Diving Boots
- vi) Lead Weight with belt
- vii) Under water torch
- viii) Knife (SoS)
- ix) Weight with rope
- x) Scuba Set (if situation demands in still water)
- xi) Under water communication system (if situation permits)

PHASE 2 EXECUTION :-

i) After reaching the incident spots information's are collected regarding the precise location of drowning and preferences are given to eye witness account. Sometimes we use country boats or vessels arranged by the local Police Authority.

ii) The incident spot are divided into zones by doing bracketing and one by one each under water divers are assigned to search in a specific zone ; the role of over ground handler (who are also divers) are very much important in giving the necessary instruction and guidance for the search operation. The operation may continue for long hours depending upon the physical situation and endurance of the divers.

iii) Rotationally team members keep constant vigil about the power supply of generator set, pressure of the compressor and any feed from the underwater diver.

PHASE 3 ROLE OF STAKE HOLDERS:-

i) Some times over enthusiastic local people create hindrance and local PS are required to take logical steps to keep the people away from the operational area.

ii) When underwater search and rescue operations are assigned at night adequate lighting systems are required to be provided by the local PS or Authority concerned and if the same is not done the divers will not dive in water.

iii) After the retrieving of the drowned victim the body is handed over to local PS for further course of action and relevant GDE no of concerned PS is generally taken for record.

- iv) Any team proceeding outside Kolkata Police jurisdiction, sanction of Jt CP (HQs) is required.

CONCLUSION :-

The DMG has carved a niche for itself by achieving sterling results in all kind of operations in water bodies. This SOP lays down the basic guidelines for the functioning of the DMG Water Wing Unit. This is a proposed SOP and will be reviewed every year as per the requirement.

3. The mobilisation and the executing methodology remains the same, however the people will be from water wing.
4. A lot of equipment related to water wing is held for carrying out operations. The list is attached at Appendix 'C'.

CYCLONE

The coastal stretch of West Bengal is necessarily highly vulnerable to cyclone. West Bengal has two cyclone seasons – Pre monsoon and Post monsoon cyclone during April- May & November – December respectively. Pre monsoon cyclone, which causes wide spread hail storm and it is traditionally called **Kal Baishaki (Nor'wester)**. Cyclones are natural events, which cannot be prevented. What actually makes these hazards turn into disasters is the vulnerability of the people and their means of livelihood and the fragility of infrastructure.

The Cyclonic storm may cause under mentioned in Kolkata City :-

- Tree uprooting
- Flying object
- Uprooting of Electric Poles
- Water logging
- Collapse of dilapidated buildings.

The following measures are required to be carried out:-

(a) DMG KP :-

- (i) **PREPARATORY STAGE** :- DMG will immediately start preparing/ checking the equipment required.

(aa) All individuals will stay in barracks with immediate effect.

(ab) Create joint teams of CSSR consisting of MFR and Tree cutting.

(ac) Water Wing team to remain stand by at PTS.

- (ii) **ACTIVATION STAGE:-**

(aa) DMG will do mapping of the critical areas of Kolkata Police jurisdiction and will deploy Joint teams in various Divisions to ensure quick response.

(ab) The joint teams will be deployed on ground with selected Police Stations in Kolkata Police jurisdiction.

(ac) The joint teams will respond on orders of Jt CP HQs, DCP Combat Bn and Lalbazar Control.

(b) RECOMMENDED ACTION BY OC SOCIAL MEDIA :- For giving wide publicity about the cyclonic storm in Kolkata Police portal after clearance of the subject matter from Jt CP (HQ)s.

(c) RECOMMENDED ACTION BY DC TRAFFIC :-

- To cater for availability of wreckers and cranes.
- Extra manpower for management of traffic in case of uprooting to ensure free flow of traffic from alternate routes.

(d) RECOMMENDED ACTION BY DIVISIONAL DCsP :-

- To sound alert in respective areas especially to the people staying in dilapidated buildings.
- Keep a watch on low laying areas for water inundation.
- Stand by manpower for any exigency in respective areas as first responders.

(e) RECOMMENDED ACTION BY DC WIRELESS :-

- To be prepared with contingency communication plans if the traditional communication system fails.
- Be prepared to issue Radio Sets on short notice.

(f) RECOMMENDED ACTIONS BY DIVISIONS/PS :-

- Flood prone area identification by respective Police Station with consultation of KMC authority. All DRO to prepare a list where inundation took place in recent time.
- All possible shelters are to be identified with accommodation facility, by respective Police Station.
- List of dilapidated buildings to be prepared by PS with KMC and checked physically regarding the possibility of collapse and number of people living there. Also all dilapidated buildings of KP housing to be identified and vacated if need be during onslaught to the cyclone. Priority must be given for the extrication of trapped victim from Disaster Zone.
- List of traders to be shortlisted Police Station wise for the supply of dry foods for the marooned people in inaccessible place.

- Police Station to coordinate with KMC regarding the information of drainage pumping station.
- All Police Stations to rely upon radio sets during exigency. Accordingly all radio sets may be charged in advance.
- All Police Stations to workout regarding the requirements of generators in case of failure of electricity.
- Water tanker and lorry mounted power supplying generator sets of private organizations are to be contacted by local PS and KMC.
- All Police Stations to keep liaison with hotels and sensitized tourists not to venture out.

(g) RECOMMENDED ACTIONS BY OC CONTROL LALBAZAR :-

- OC Control to keep constant touch with Civil Defence authority regarding supply of rubber boats, tree cutting machines with adequate manpower.
- OC Control to keep constant contact with West Bengal Fire & Emergency Service, NDRF, CESC for joint coordination and response. The state authorities to request NDRF to stage forward their few team to Kolkata from Kakinara.
- Joint command of Police, WBFES, NDRF, CESC, KMC, Civil Defence to be established at Lalbazar.

(h) RECOMMENDED ACTIONS BY STATE GOVT :-

- It is recommended that the State Govt. to get in touch with Local Military Authorities, CAPF and NDRF for their resources.
- It is recommended that the State Govt. as precautionary measure should suspend Tram and selected Metro Services as the failure of electricity may trigger additional exigency related to Metro services.
- Seeing the magnitude that State Govt. may consider declaring holiday on critical day.
- It is recommended that the State Govt. should share the information held with Health Department regarding availability of Trauma Ambulances, Doctor available on duty to reach exigency sites for spot medical aid to victims.
- It is recommended that the State Govt. to get in touch with NCC authorities, NGOs for volunteers during exigency.
- It is recommended that the State Govt. there is a requirement to activate Emergency Operational Centre (EOC) at Nabanna for Unified Operations. Nodal Officers of all state Dept will assemble in EOC to assist Principal Secretary of DM department.

(j) RECOMMENDED ACTIONS BY OTHER STAKE HOLDERS :-

- ICD Lalbazar to keep close liaison with KMC control regarding supply of tarpaulin sheets, phenyl, ORS, Halogen Tablets, Bleaching Powder if the magnitude of disaster is far too high.

- The distribution of relief material if any to be coordinate by the Office of Jt CP (HQs), Kolkata.
- On failure of communication network viz mobiles, landlines, all Nodal Officers of various departments are recommended to report to Emergency Operational Centre (EOC) at Nabanna without orders.

(k) **MISCELLENOUS :-**

- Local residents of concern PS are to be alerted by PA Systems by local PS or by any voluntarily organisation regarding impending calamities and advice them regarding DO's & DONT's during the onslaught of disaster

DO's

- Check houses, secure it as much as possible.
- Illegal and unsecure hoardings are required to be removed by KMC authority.
- Residents going to be affected by the onslaught of the disaster should adhere the instructions of the Government Authority to reduce the risk of any untoward incident including loss of life and property.
- Discipline to be maintained while distributing the relief material amongst the marooned people.
- Be calm. Your ability to meet emergency to inspire to help others.
- People to keep away from disasters site unless you are required to assist.
- It should be made sure by the appropriate authority (KMC) that drinking water is not contaminated.
- Main arterial roads which connect the vital installations like Hospitals, Power Stations, Police Stations etc are to be made free in the first place if incidents of tree uprooting happen.

DONT's

- Avoid being misled by rumours.
- Don't leave the safer place until informed by the rescue personnel.
- Don't touch the loose and dangling wire from the electric lamp post.
- Manhole covers should not be kept open unattended.
- Tourist and visitors are advised not to venture deep into the affected zone and should also avoid taking pictures (selfi).

1.	List of Tree Cutting team with mobile nos.	(APPENDIX- A)
2.	DMG Quick Response Team details	(APPENDIX- B)
3.	Availability Boats	(APPENDIX- C)
4.	Availability Dragon/Search Light	(APPENDIX- D)
5.	Availability of Wrecker and Cranes	(APPENDIX- E)
6.	Availability of Heavy Vehicles/ Jeep	(APPENDIX- F)
7.	Availability of Vehicles	(APPENDIX- G)

8. Important Telephone Nos. DMG Officials and Control Rooms

(APPENDIX- H)

(Details of appendix A to H is included in the Annexure)

11.4 SOP of Metro Rail, Kolkata

11.4.1. Fires in Stations, Tunnels & Metro Railway Trains

Fire in Metro Railway can take place at various locations adversely affecting the system in different ways. The reasons may be unforeseen or anticipated. Fires in station area, underground tunnel viaducts and in trains can cause acute distress to passengers and require prompt disaster management to bring the situation under control.

Fire can be due to electrical short circuit in cables, wires or in electrical equipment. It can be due to failure of cable joints in the tunnel or due to failure of the cable itself. In Metro Coaches it can be due to short circuit faults. Fires can also be due to sabotage including bomb blasts.

11.4.1.1. Fire at Metro Station Premises

The fire can be at the following locations:

In areas where the passengers enter for purchasing tickets or leave the station after performing their train journey including staircases (and escalators, where provided).

For underground stations this area includes the ground surface entries/exits. It also includes the escalators connecting the surface Mezzanine, and the Mezzanine floor level except for Park Street station which does not have a mezzanine level. For Dum Dum Junction it is the ground surface area where Metro tickets are sold and where the passengers disperse including the staircases/escalators connecting the ground surface areas to the platform areas. For Tollyganj ground surface station it is the areas in the station prior to the entry of passengers on to the Up platform and includes the subway leading from the ticketing area to the Up platform. It also includes the area adjacent to the Down platform after the exit gates.

The service rooms and the installations housing the ventilation and air-conditioning equipment including the station air intake/exhaust locations which are situated on the ground surface or mezzanine level and are approachable through these areas.

In platform areas, including the service rooms and installations housing the ventilation and air conditioning equipment, station air intake/exhaust locations, which are situated at the

platform level and are approachable from the platform. This also includes cases of fire within the station limits in the tunnel/viaduct/portion of track surface. Auxiliary electrical substations situated at platform level.

In case of fire in areas where passengers enter/leave the station premises the endeavour of station staff should be to cordon of the area so that it is not approachable by intending Metro users or by Metro passengers leaving the station area.

(a) Duties of the Station Master / Station Superintendent at the adjacent station

Inform the Central Control about the fire and also appraise the requirement of medical assistance, if necessary. Close the station entry and exit from the platform near the fire location, to prevent access to the area by persons not connected with the salvage. Announce through *Public Address system* to passengers to get out of the platform and use the other mezzanine or other entries for entry and exit. In some underground stations there are areas which, if affected by fire, would block all the exits from the stations. In such cases the passengers should be requested to be on the platform and board the next available train for detraining. Inform fire personnel for fighting the fire. Use fire extinguishers available at the station with the help of other staff and try to extinguish the fire. Switch off intake fans by pressing the push buttons provided for the purpose in Station Master's room. Where push buttons are not provided, advise the ventilation staff at the station to switch off intake fans and ensure that exhaust fans are running. Advise Electrical staff to cut off power supply to the affected area.

(b) Duties of the Traffic Controller

(i) After receipt of the report of fire, Traffic Control should inform the Fire Brigade personnel and the Medical Team for fire fighting and medical assistance (if required).

(ii) Regulate the Train service, as required. If the fire is at a station in an area blocking all exits from the mezzanine, the driving Motorman of trains approaching the station should be advised to inform his passengers that they should not detrain at the affected station. The doors of the coaches would however be opened to take the waiting passengers from the platform.

(iii) After clearing the passengers available on the platform the Traffic Controller should inform the Traction Power Controller to take necessary precautions about electrical equipment available at the station and regulate the ventilation system as required, depending upon the situation of the fire.

(c) Duties of the Traction Power Controller

(i) He should advise Electrical staff at the station to stop intake fans in the portion of the station where the fire has broken out. Advise the staff concerned to fight the fire with the available fire fighting equipment with them.

(iii) Operate the ventilation system after the fire is extinguished to disperse smoke from the place of fire.

11.4.1.2. FIRE IN PLATFORM AREAS

The endeavour of the station staff should be to prevent access of persons on to the platform and to disperse the existing passengers from the platform.

(a) Duties of Station Master/Station Superintendent of the station

(i) He should inform the Traffic Control immediately about the fire so that train services can be suitably regulated if the fire is likely to affect the running of trains.

(ii) Suspend selling of tickets and announce through Public Address system to passengers not to get on to the platform.

(iii) Guide the passengers to go out of the station till such time the fire is extinguished and normalcy is restored.

(iv) To advise the ventilation staff at the station to close the ventilation system so that fire is not further aggravated. Exhaust fans, however, should be kept working.

(v) Fight the fire with the help of available station staff with the available fire fighting equipment.

(b) Duties of Traffic Controller

(i) The Controller should regulate the train services depending on the situation on either side of the affected station.

(ii) Make announcement on the train and other stations (through Motormen and the Station Masters) about the incident giving reasons for the regulation of train services.

(iii) In case the fire does not affect running of the trains, the passenger on the platform of the affected station can be taken to the next station by running the train services and announcement should be made to that effect.

(iv) To inform the fire fighting personnel and Medical Team for assistance depending on the gravity of the situation.

(v) Fire Brigade personnel of the state Govt. may also be informed for assistance.

11.4.1.3. FIRE IN THE TUNNEL / VIADUCT / TRACK SURFACE OUTSIDE STATION

This covers the areas along the Metro track inside the tunnel, over viaducts and on surface. It also includes the mid-point shafts which can be approached through the tunnel including the

sump areas. In cases of fires in the areas mentioned above, the incident should be immediately reported to the Traffic Controller by the person who locates the fire.

(a) Duties of Traffic Controller

- (i) On getting information of fire in the tunnel, train service should be regulated and trains should be stopped at the stations on either side of the location of the fire.
- (ii) Passengers at the stations on either side as well as on trains should be informed on Public Address system, through Motormen and Station Masters, about the incident. If necessary, they should be asked to vacate the train and get out of the Metro system.
- (iii) The fire fighting personnel should be informed for fighting the fire.
- (iv) Traction Power Controller should be informed about the situation for taking necessary steps in respect of switching off of power supply equipments, as required.
- (v) Ventilation system should be regulated by informing the stations on either side to close the intake air so that there is no airflow to the fire through intake shafts. The exhaust fans should, however, be kept working for eviction of smoke.

(b) Duties of Traction Power Controller

- (i) In case of fire in tunnel, due to cable failure or cable joint failure, necessary switching operation should be done to isolate the faulty section immediately and to restore power supply through alternate sources so that lighting and traction system power can be maintained.
- (ii) Inform the Ventilation staff and other Power supply staff concerned to take necessary steps for identifying the fire and fighting the fire with the equipments available with them.
- (iii) Ventilation staff at the stations at either end of the fire should be asked to stop the intake fans and run only the exhaust fans.

(c) Duties of Motormen

- (i) In case of fire in the tunnel, the Driving Motorman will observe the fire to assess whether he can run the train in the affected area and take his train to the next station, if possible, or stop the train short of the fire in case it is not possible to go to the next station.
- (ii) When the train is stopped at the mid-section due to fire in the tunnel, he should immediately inform his rear Motorman about the incident and ask him to get prepared for evacuation of passengers through the rear of the train.
- (iii) He should inform the Central Control through Train Radio system and ask for switching off the power.
- (iv) The Controller, on receipt of such information, will inform TPC and get the power switched off. The TPC will exchange Private Number with the Motorman after switching off

power, as required, for detrainment of passengers. Thereafter, detrainment of passengers will be undertaken by the two Motormen.

11.4.1.4. FIRE IN TRAIN

(a) Duties of Motormen(i) In case of fire in train detected by passengers and made known to the Motorman on any of the sides or noticed by the Motorman of either side, first attempt should be to take the train, if

it is in motion, to the next station without stopping it in mid-section. In case the train is unable to move due to the fire within the train, immediate action should be taken for evacuation of passengers from either end as per the procedure laid down for detrainment of passengers.

(ii) If it is possible to move the train to the next station, then on reaching the station, the doors should be opened and announcement should be made to all the passengers to evacuate the train immediately and get out of the station at the earliest.

(iii) The Motorman should inform the Traffic Control through Train Radio System asking for necessary evacuation of passengers from the station at the quickest possible time.

(iv) He should also ask the Traffic Control for necessary medical assistance, if necessary, at the station which he is approaching.

(b) Duties of Traffic Controller

(i) In case of fire in train, the Traffic Controller should inform the fire fighting personnel as well as the Medical Team for rushing to the station where the train has stopped, or on the stations on either side if the train has stopped in mid-section for necessary assistance.

(ii) In case of train stopping at the mid-section, he should inform the TPC to switch off the third rail power on both sides for quick evacuation of passengers.

(iii) He should control all train services on both the lines.

(iv) He should inform Ventilation staff for stopping intake fans and run only the exhaust fans.

(v) He should inform Station Master / Station Supdt. of station on either side and arrange for announcements over Public Address system to waiting passengers and also to guide detrained passengers to safety.

(c) Duties of Traction Power Controller

(i) He should switch off traction power in case of stoppage of train in mid-section due to fire in train.

(ii) If the power is likely to affect the high tension cable, laid on tunnel walls, he should switch off the power of the particular feeders; but ensure lighting in tunnel through alternate supply.

(iii) He should contact the TLC and exchange Private Number stating the power has been switched off and evacuation of passengers can be started as laid down in the procedure for evacuation of passengers.

(iv) He should inform Ventilation staff at the station on either side to take necessary action for stopping the intake fans and running only the exhaust fans.

(v) He will co-ordinate with concerned Section Engineer / Works & Section Engineer (Elec. Pump) to ensure availability of water by running all concerned pumps for fire fighting purpose.

(d) Duties of Inspection Protection Force, Metro Bhavan

(i) He will co-ordinate from Control with the available SIPF/ASI on spot, obtain details of fire and ask for necessary assistance from State Police / Fire Brigade.

(ii) He will coordinate with Traction Power Controller to ensure proper running of water pumps and availability of water in fire hydrants.

11.4.2. FLOODING OF METRO TUNNEL

When the water level inside the tunnel rises above the drain top the situation is termed as Flooding. When this water level touches the 3rd rail, it causes short circuit of the 3rd rail power supply resulting in power interruption and stoppage of train services. It is therefore, necessary that commuter services be stopped before the water level touches the bottom of the 3rd rail. *The major causes for flooding of Metro Tunnel leading to stoppage of train services are as follows :*

(i) Entry of flood water through station entry or other entries due to excessive flooding in the city.

(ii) Excessive leakage from the tunnel walls and roofs at various locations.

(iii) Non-working of sump pumps due to power failure or due to defective pumps etc.

(iv) Breakage of water pipelines inside the tunnel.

(v) Breakage or choking of drains leading to sumps resulting in water accumulation on track. Any one of the above reasons can cause water level to rise inside the tunnel and result in interruption of train services due to water touching the 3rd rail and causing short circuit.

11.4.2.1. ACTIONS TO BE TAKEN FOR TACKLING THE DISASTER

The following actions are warranted when flooding occurs:

(i) Control of trains including the affected train in order to isolate the flood affected zone.

(ii) Detrainment of passengers if trains stop either at platform or in the section due to flooding.

(iii) To keep the passengers informed of the situation through the train and station PA systems.

11.4.2.2. PERSONS TO GET INVOLVED IN TACKLING THE DISASTER

i) Motormen, ii) Traffic Controller, iii) Station Master / Superintendent, iv) Traction Power Controller v) Engineering supervisors, vi) Electrical supervisors (pump)

11.4.2.3. DUTIES OF THE INVOLVED STAFF

(a) Duties of Motormen

(i) As soon as the Driving Motorman finds that the water level inside the tunnel at any location between stations has come above the drain, he should inform the conducting motorman to observe the same and note the km of the flooded location and the time of passing the location.

(ii) Message of such flooding should be passed on by the conducting Motorman to the Central Control i.e. Traffic Controller immediately through the radio telephones. In case the radio telephone is defective the message should be transmitted on arrival at the next station.

(iii) In case the Driving Motorman finds that the water level is very high and is almost touching the bottom of the 3rd rail, or the extent of flooding is such that the water level may touch the 3rd rail before he is able to negotiate the flooded area, he should stop short of the location and contact the Traffic Controller through radio telephone and be prepared for instructions for detrainment of passengers through the rear of the train. In case of failure of radio telephone, he should use the emergency control lines for contacting the Traffic Controller.

(iv) While contacting the Traffic Controller or the SM/SS, the conducting Motorman should give the assessed depth of the water level below the bottom of the 3rd rail.

(b) Duties of Traffic Controller

(i) On receipt of any message of flooding inside the tunnel, the Traffic Controller should inform the Traction Power Controller about the situation.

(ii) He should also inform the IOWs concerned and other section engineers incharge of the section concerned for immediate action, requesting an urgent feedback regarding the safety of running trains (it is the engineering official who will decide whether or not it is safe to run trains -refer Para 4.6 of the Accident Manual).

(iii) The Traffic Controller should control the train services depending on the level of water reported by the conducting Motorman, If the location is near the station, he should ask the SMs concerned or any other responsible staff available at the station to visit the site and inform the details of flooding condition so that train services can be controlled accordingly.

(iv) In case of stoppage of train services the Traffic Controller should inform the various stations the reason for stoppage of train services and ask the Station Master to announce the same over PA system at the respective station.

(v) In case the train, which has reported the flooding, is not able to proceed, the Traffic Controller should initiate action for switching off 3rd rail power and order detrainment of passengers by bringing the train back to the station in rear, if possible, or detrain the passengers from the rear of the train as procedure detailed above.

(v) He will inform his superior Officer about the situation.

(c) Duties of Station Supdt. / Traffic Supervisor

On receipt of the information regarding flooding from the Central Control, he will take the following actions:

(i) Arrange for suitable announcement through the station PA system for information of the passengers waiting at the station.

(ii) In case of detrainment send suitable staff to platform to guide the passengers to safety.

(iii) He will arrange to get it verified whether the source of flood water is in the station area. In case it is so, the fact should be intimated to the Traffic Controller with as much detail as is possible.

(d) Duties of Traction Power Controller (TPC)

(i) On getting information from the Traffic Controller, TPC should immediately inform the supervisor and staff of the section responsible for running the de-watering pumps to proceed to the site without delay and ensure working of the pumps.

(ii) He will also ensure that power supply to the pumping installation is intact.

(iii) In case of any power failure detected by him, staff of the respective section should be deputed for restoration of the power supply immediately for working of pumps.

(iv) He will inform the concerned officers of the Electrical Department for proper working of the pumping installation.

(v) He will mobilize staff from the nearest location by arranging transport if required to reach the site at the earliest.

(e) Duties of Engineering Supervisor

On receipt of information from the Central Control about the flooding, the Civil engineering supervisor in charge of the section will :

(i) Immediately proceed to the site with staff and necessary tools.

(ii) On reaching the site he should assess the reasons for flooding as detailed above.

(iii) He should then inform the Traffic Controller whether or not it is safe to run trains and the action taken by him and the time required for repairs/restoration in case train service is stopped.

(iv) He should ensure that the outflow at the ground level is functioning properly and that water is being pumped out from the sump. He should keep a constant watch to keep the inlet to the sumps free of all obstructing materials.

(f) Duties of Electrical Supervisor

(i) On receipt of information from TPC, supervisor in-charge of the pumping installation of the section will mobilize his staff to the site of flooding and then to the pumping installations from where water of that particular section is pumped out. He should check working of the pumps and as required he will ensure that all the sets of pumps installed are in working condition and are pumping water satisfactorily.

11.4.3. SABOTAGE

Sabotage is criminal interference with any part of working machinery of the Metro Railway with the object rendering it inoperative or any criminal act intended to cause damage to Metro Railway property. Sabotage may occur anywhere in the Metro Railway's jurisdiction of action but its effect in Metro Stations in section between two stations or in running train will have profound impact in terms of human distress.

(a) Action to be taken by the Station Master

(i) He will **visit** the affected spot and assess the extent of damage inflicted on Railway property and how that might have affected the passenger service.

(ii) He will immediately inform the Central Control about details of the happening, the time when it occurred and how it will affect the train services, passenger movement etc. He will ask for Medical assistance, if necessary, and indicate the gate through which the Medical Team should enter.

(iii) He, depending on the seriousness, may announce through the station Public Address system what has happened and what the passengers are expected to do without getting into panic.

(iv) In case any Railway property is seen to be damaged, he should immediately inform the Section-in-charge of the Department to immediately attend the affected spot and take suitable remedial action.

(v) In case any person is seen to be moving with doubtful intentions, he may be detained for interrogation.

(vi) Passengers found near the affected zone may also be asked about their first hand knowledge of the occurrence.

(b) Action to be taken by the Central Control

(i) Immediately on receipt of the sabotage information, Chief Controller will contact the RPF and ask them to rush to the spot of occurrence and cordon off the area so that the evidences are conserved to the extent possible.

(ii) He will inform the Medical Department to reach the spot with necessary medicines, ambulances etc. (in case of any injury to any person due to the sabotage) through the gate as advised by the Station Master.

(iii) He should thereafter inform the Chief Operations Manager the details of the occurrence and the action already taken by him and receive directions from him for further actions.

(iv) Relay required directives to the persons concerned.

(v) Hold trains at the earlier station in case it is considered that the running of train through the affected station is not desirable and arrange for detrainment of passengers after proper announcements.

(vi) Inform Section in charge of Civil, Electrical and Signal Department of the incident and ask them to go to the spot immediately.

(c) Action to be taken by the RPF

(i) On being informed about the sabotage, they will rush to the spot and immediately cordon off the area.

(ii) After inspection of site lodge a FIR with the local police.

(iii) Question any doubtful person detected earlier by the Station Master or by them and if necessary, arrest them.

(iv) In case of fire, immediately inform the Fire Brigade to rush to the spot for combating the fire.

(d) Action to be taken by the Other Staff

(i) The Section Chiefs of all the three service departments viz. Civil, Electrical and Signal Department will visit the site immediately and assess the damage inflicted on equipments under their respective charges.

(ii) Take suitable action, including informing their higher authorities, to restore the damage to the equipments/installations in least possible time.

11.4.3.1. SABOTAGE IN SECTION BETWEEN TWO STATIONS

(a) Action to be taken by the Motorman

When sabotage takes place in the section between two stations, it is the Motorman of the running train(s) who will come to know about it first whose duty will be :

(i) On noticing any unusual occurrence on track or other installation, he should immediately report to the Central Control about the unusual sight with its location.

(ii) In case it is possible to run through the spot, he should continue the journey.

(iii) In case he notices a situation where train running will not be safe, he should stop the train and inform the Central Control for further directive.

(iv) Similar action should be taken by the Motorman in case he notices abnormality in the other track also indicating to the Controller whether passage of a train over the affected section will be safe.

(v) Take further action as per the directive of the Central Control.

(b) Action to be taken by the Central Control

(i) On receipt of such information, the Controller should immediately take action to regulate trains to prevent their running over the affected section.

(ii) Inform the RPF about situation and take action to enable the RPF to make an immediate on the spot inspection.

(iii) Inform the superior officers about the situation and get directive from them for further action.

(iv) Take necessary action as per the directive of the superior officers.

(v) Inform Section-in-charge of Civil, Electrical and Signal Departments to make an on the spot inspection to assess loss/damage etc.

(vi) In case train running to Car shed is unsafe, control trains in earlier stations and arrange for detrainment of passengers after proper announcement.

(c) Action to be taken by the RPF

(i) On being informed, they should go to the affected spot and make a detailed assessment of loss and probable method adopted for sabotage. To reach the spot, they should ask the Controller for power block and go to track bed only after confirming that 3rd rail power has been switched off.

(ii) Make a FIR to the Local Police on the case after inspection of spot and assessing the effect of the sabotage.

(d) Action to be taken by the other staff

(i) Other concerned staff of Civil, Electrical and Signal Departments should make an immediate inspection of the site, assess loss/damage and organize necessary repairs as early as possible. Inform their superior officers about the situation and the action they are taking to

rectify the situation. In case of any specific directive from superior officers, they should act according to those directives.

11.4.3.2. SABOTAGE IN TRAIN

Of all the sabotage actions, those happening inside a train will have most disastrous consequences and very prompt action will be necessary to restrict the damage to men and material. The following are envisaged towards sabotage activities:

(i) Bomb in track which detonates under a train.

(ii) Detonation of bomb inside a coach.

(iii) Criminal interference with train running equipments which causes fire to the coaches, while on run.

(iv) Other sabotage activities incapacitating the train in the section.

(v) Sabotage activity in any other area than the station premises or in tunnel

(i) Bomb blast on track

There may be derailment of the train with large scale damage to the train, tunnel structure as well as injury to the passengers in the train. In case of derailment, the train will immediately come to a stop. The Driving Motorman (and in case he is already injured, the Conducting Motorman), will try to contact the other motorman and try to assess the situation and immediately inform the Traffic Controller about the occurrence and ask for immediate assistance of RPF and Medical Department. At the same time the motorman should seek permission for detrainment of passengers. For detrainment of passengers, action should be taken immediately. In case, the situation does not permit detrainment from one end, it should be arranged from both ends. The injured passengers will have to be treated locally or transferred to hospital as soon as the Medical Team arrives at the spot. In case the motormen cannot communicate with each other, both of them should independently try to assess the situation and take action to inform the Traffic Controller and also the action as indicated above.

(ii) Bomb blast inside the train

It will be the endeavour of the Driving Motorman to run the train to the next station as quickly as feasible. In case he is not able to take the train to the next station, he should stop the train and contact the Conducting Motorman to ascertain from him, if he has any knowledge of the situation. Immediately thereafter he should contact the Traffic Controller and inform him about the blast. He should seek from the Traffic Controller the assistance of RPF and Medical Department. He should now ask Conducting Motorman to make an on the

spot assessment of the situation including injury/death of passengers. The Conducting Motorman will inform the same to the Traffic Controller for immediate appropriate action. At the same time, he should take the permission of the Traffic Controller to detain the passengers. In case one of the Driving Motormen is incapacitated or the communication between them is disrupted, then the other motorman should take all the above actions himself. After assessing the situation and informing the Traffic Controller, the Motorman should make announcement to the passengers through train Public Address system about the situation and should repeatedly ask them to remain calm indicating that action has already been taken to arrange for detrainment of passengers. On arrival of the RPF and Medical Team, they should be brought inside the train through emergency cab door and the step ladder and they should be shown the affected coach/coaches so that immediate medical assistance may be given to the passengers in distress. The Motorman will thereafter arrange to detain the passengers with the help of the RPF staff and other staff which may have already arrived at the site by this time.

(iii) Criminal Interference with train running equipment which causes fire to coach

In case of a fire in the train due to any criminal interference with train running equipment, the matter should be dealt with as in the case of fire in a train dealt in

(iv) Other sabotage activities incapacitating the train in the section

In this case, arrangement should be made to detain passengers as given in Chapter for Detrainment of passengers in a section.

(v) Sabotage activity in any other area than the station premises or in tunnel

In case sabotage activity has taken place in any other place than the station or tunnel, action will have to be taken by the official /officer in-charge of the place of occurrence. *In that case, he will have to deal with that situation like a Station Master when the sabotage occurs in station area.*

11.4.4. STAMPEDE

Stampede is a sudden rush of a crowd of panic stricken people. It may result in extensive damage to property, injury to persons or even loss of human life and may cause acute distress to persons caught in the rush. *The main causes leading to stampede are:*

- (i) Fire or sabotage or serious accidents inside the Metro stations and tunnel leading to passengers rushing out of the system for safety.
- (ii) Unusual rush of passengers during night service runs i.e. During Puja festivals and other festivals.

- (iii) Unusual rush of passengers after big matches (Football, Cricket etc.), political rallies, especially in Maidan area.
- (iv) Unusual occurrence in the Metro Rail services, leading to heavy accumulation of passengers in a particular Metro Railway platform.
- (v) Natural calamity like heavy rains etc. leading to a rush of passengers into the Metro Railway stations.
- (vi) Heavy rush of passengers in peak hours due to dislocation of other modes of city transport.

Stampede can occur anywhere in the station premises and as such it is the primary duty of the station staff to control the situation. In serious cases the help of RPF and local police may be needed. Medical attention may be necessary for the injured. *Stampede can occur most possibly in the following areas of the Metro Railway system:*

- (i) *Entry and Exit points leading to Metro stations.*
- (ii) *Station concourse in front of ticket counter and entry / exit gates leading to platforms.*
- (iii) *Near escalators and stairs.*
- (iv) *Passenger platforms.*

(ii) On reaching the station, In-charge of the Medical Unit should report to the SM/SS of the concerned station and help the station staff in rendering First Aid and other medical help as required to the passengers or staff affected by the stampede. At this stage the In charge of the Medical Unit may request SM/SS to announce through the station PA system regarding availability of medical facility.

(iv) In case of serious injury, the person/persons affected should be removed to the nearest hospital by ambulance or any other vehicle available outside the

(a) Duties of Electrical Staff at the Station

- (i) In case of any stampede or stampede - like situation, Electrical staff on duty will ensure that lights and emergency lights are in working condition and they should remain available of passengers. at the switch room to ensure that lighting is proper for dispersal Escalators working at the station may be stopped to avoid any untoward incident or running escalators.
- (iii) All under-platform exhaust fans should be kept working normally.

(b) Duties of S & T Staff at the Station

The S & T Staff at the station should ensure that the following are in working order and they should be available there till the crisis is over :

- (i) Station PA system.
- (ii) Telephone system and communication with the Central Control

(iii) Closed Circuit TV system.

In case no S & T Staff is available at the station, the Signal Control Staff at the Central Control may be directed to immediately depute a suitable person from any other location where such staff is available to carry out the functions stated above

11.5. SOP of Railway Accidents

(Compiled from Disaster Management Plan of Eastern Railway Part and Part B)

The concept of a Disaster was, till the year 2005, not adequately and comprehensively defined on Indian Railways. It was accepted that a Disaster situation implies, on the railways, to cover only cases of serious rail/train accidents. It was, perhaps, due to this anomaly as late as the year 2008, even CAG's report on DM on Indian Railways has broadly adopted this fact in the concept of disaster and has gone to examine the relief/rescue/mitigation and preparedness of Indian Railways based on the earlier concepts and has reviewed the facilities for handling disasters available with the Railways only on the report/recommendations of the HLC on DM of Mr. S. Dhasarathy.

The definition of DM as given by the Government of India was legislated for the first time in the Disaster Management Act, 2005. The broad principles of disaster for any department of the government changed to the concept of any incident which could not be handled with alone by that department i.e. if it was beyond the coping capacity of a particular department, the incident could be termed as a disaster.

With this came the concept of the departments of Government of India as also the State governments required to join hands to extend whatever facilities were available with them to provide relief/rescue and mitigation on the occurrence of a disaster. In the DM plan of Indian Railways, this concept of disaster, which has now evolved, has been adopted. The zonal railways have to ensure that, down the line, this definition is understood. Sections 35, 36 & 37 of the DM Act, 2005 detail the responsibilities of Ministries and Departments of Central Govt. as per which a number of measures/actions are to be taken either on their own or in consultation with NDMA. Drawing up mitigation, preparedness and response plans, capacity building, data collection and identification and training of personnel in relation to Disaster Management is one of the key responsibilities.

General instructions of the railway board

Ref : board's letter no.89/safety-1/4/3 dt.4.3.89

1. All Railwaymen travelling in a train involved in accident should report immediately to the guard.
2. All staff at the accident site should wear arm bands. Accordingly, all passenger carrying trains should be provided with 10 arm bands, to be kept with guard.
3. A permanent check-list to be displayed in all SLRs regarding duties of guard during an accident.
4. Division should nominate controlling stations in each section of their jurisdiction. SMs of these controlling stations on receiving information of accidents will rush to the site of accident with his staff.

5. Every Railway should have fully equipped road ambulance vans in identified areas where a good road infrastructure has developed.
6. A minimum no. of two telephones with STD facility should be provided in the control. Facsimile facilities should also be provided in the division.
7. All ARME, scale I should be provided with cold cutting equipment and should be periodically tested, as also staff in sufficient number should be trained in handling this equipment.
8. Relief train should be given overriding priority with stranded passengers.

Coordination with NDRF

Zonal Railways should get in touch with NDRF offices at the nearby locations to have the first hand knowledge of the resources available with them and also to familiarize them with railway related disaster situations and expose them to the issues relevant to the rescue and relief of passengers during railway accident. It has also been advised to associate NDRF in full scale exercise that is held once every year. There are no charges for availing the services of NDRF except the rail transportation which railways may provide at their cost for attending to rail disasters. Railways may also have to provide rail transportation logistics for transporting NDRF even in case of non-railway exigencies. The Railway Board has empowered DRMs/CSOs to directly requisition the relevant NDRF battalion for relief and rescue operations depending on the gravity of situation so that their services could be made available expeditiously without any loss of time. During the meeting between NDMA/NDRF and Railway Board officials held on 19th February, 2013, it was decided that each NDRF battalion should carry out at least one or two mock exercises/coordinating meeting with respective Zonal Railways under their purview every year.

The guidelines of first aid

- i. Help injured persons to achieve normal breathing conditions.
- ii. Bleeding should be tackled on a priority basis starting from profuse bleeding, the continuance of which would endanger life.
- iii. The injuries should be supported and secured by simple methods.
- iv. Any person who is, or has been entrapped under the debris must be treated on the assumption that the severest injuries have been received, which might include fracture of the thigh or pelvis or spine.
- v. A person who is wholly or partly unconscious or one who is suspected of suffering from internal injury should not to be given anything to eat or drink.
- vi. All injured persons suffer from primary shock. They should be treated carefully. Secondary shock should not be allowed to come on.
- vii. Child must be prevented by covering with suitable clothing or blanket. Similarly during summer injured to be shifted to a cooler place, avoiding direct hot sun beam.
- viii. Care, gentleness, assurance and good behaviour are necessary except for the hysteria patients, who require firm handling.

Guidelines for disaster during fire accidents

In the event of a vehicle on a train caught fire, on run.

- a) The train shall be stopped, immediately.
- b) Efforts shall be made to save the lives and RMS first.
- c) Information should be given to the nearest SM/control quickly.
- d) The burning vehicle shall be isolated at a distance of not less than 45 meters being left between it and the other vehicle of the train.
- e) The train shall be protected in accordance with GR. 6.03, if not protected by fixed signals.
- f) Every effort shall be made to extinguish the fire and to save the wagon labels, seals and the contents of the vehicle.
- g) Earth or sand, if available shall also be used to extinguish fire in addition to fire Extinguisher and water bucket as per training imparted to the staff.
- h) Ordinary Fire extinguisher or water from a hose pipe shall on no account be used to extinguish fire on live wire or electrical equipment. If the services of the Fire Brigades are required, the brigade shall not be allowed to commence operation until all electrical equipment in the vicinity of the fire has been made dead and earthed.
- i) If the fire is suspected to be due to electrical short circuit, the electric couplers at both the ends shall be disconnected & fuses from the battery from boxes shall be removed.
- j) In case the fire is near a tank, the Guard and Driver shall use their discretion to proceed there, but no such attempt shall be made until the portion of the train in rear of the vehicle has been detached.
- k) All available help should be mobilised to extinguish the fire.

Duties of railway personnel in the event of a serious accident (extracts of accident manual/ eastern railway)

ACTIVITIES & DUTIES	REFERENCE OF RULE
OPERATING DEPARTMENT	
1.Reporting of accident	
1.1 Guard	Rule No. 3.02 of Accident Manual.
1.2 Engine Crew	Rule No. 3.03 of Accident Manual
1.3 Railway servant travelling by the train	Rule No. 3.05 of Accident Manual
1.3 Station Manager of both sides of the affected section and Controlling Station Manager	Rule No. 3.08 of Accident Manual
1.4 Section Controller	Rule No. 3.15 of Accident Manual
1.5 Chief Controller / Dy. Controller	Rule No.3.16 of Accident Manual
1.6 Safety Officers of the Division	Rules No. 3.14 of Accident Manual.
1.7 Officer-in-Charge of Control Office	Rule 3.20 of Accident Manual
1.8 Head Quarters Emergency Control	Rule No. 3.24 of Accident Manual
2. ELECTRICAL DEPARTMENT	
2.1 Traction Power Controller	Rule 3.18 of Accident Manual
2.2 Traction Loco Controller	Rule 3.19 of Accident Manual
2.3 Divisional Electrical Officers	Rule 3.21 of Accident Manual
3. MECHANICAL DEPARTMENT	
3.1 Power Control	Rule 3.17, 5.10 &5.18 of Accident Manual.
3.2 Divisional Mechanical Officers	Rule 3.22 of Accident Manual

3.2.1 Calling of Relief Train	Rule No. 5.08 of Accident Manual
4. ACCIDENT MANAGER	Rules 3.06& 3.07 of Accident Manual
4.1 RESCUE OPERATION	
4.1.1 Mechanical Officers	Rule 3.22 (v) of Accident Manual
4.1.2 Medical Officer	Rule 3.22 (v) of Accident Manual
4.2. RELIEF OPERATION:	Rule 3.10 of Accident Manual
4.2.1 Security Officers	Rule 3.09 of Accident Manual
4.2.2 Crowd control	Rule 3.09 of Accident Manual.
4.2.3. State Police Clearance and restoration: Security Dept.	Rules Nos. 3.09 & 5.23 of Accident Manual
4.2.4 Signalling and Telecom Officers	Rule 3.13 of Accident Manual
4.3 RESTORATION OPERATION	
4.3.1 Personnel Department	Rule No. 3.12 of Accident Manual
4.3.2 Mechanical Department	Rule 3.22 of Accident Manual
4.3.3 Electrical Department	Rule 3.21 of Accident Manual.
4.3.4 Engineering Department	Rule 3.23 of Accident Manual
4.3.5 S&T department	Rule 3.13 of Accident Manual
5. MAINTENANCE OF SITE EQUIPMENT	
5.1 Maintenance of SPART / ART and ARMV Rolling Stock / BD Crane	Rule No. 5.21 of Accident Manual
6. CHECK LIST FOR SENIOR-MOST OFFICERS AT SITE	Senior most Officers at site will act as per Accident Manual Rule 3.06 & 3.07.
7. DIVISIONAL CONTROL ORGANISATION	Divisional control organization will act as per Accident Manual Rule No. 3.20.
8. MEDIA MANAGEMENT AT SITE	Senior most Officers at site will deal with the Press and DRM at Divisional Headquarters.

NOTE: Details of the duties narrated in Chapter – III of Accident Manual, Eastern Railway (Reprinted 2004) should be consulted.

[Guideline for on board staff](#)

A) General

- i. Ensure full rest before taking over the charges.
- ii. Ensure availability of Torch Light during Night.
- iii. Ensure availability of First Aid Box in train.
- iv. Guideline of First Aid Instructions attached with this Manual to be followed.
- v. Be a member of the Rescue Team under the guidance of Accident Manager.
- vi. Render First Aid to the injured passengers.
- vii. To look after their comfort both injured and non-injured passengers, physically and mentally keeping the temperament cool.
- viii. Do not leave the accident site without the permission of Accident Manager.
- ix. Do not pass any misleading information.

b) Guard

- i. Check the availability of First Box with full components while on duty before starting.
- ii. Ensure availability of other departmental staff booked to work with your train along with their names and possible location of trains.
- iii. Do not take any Alcoholic Drink or any intoxicating elements immediately before duty or while on duty.
- iv. Note the time of accident.
- v. Form a team with different on duty staff and guide them to rescue operation.
- vi. Call for doctor from the passengers with the help of TTE, the team and seek their assistance.
- vii. Seek assistances of the railwaymen on the Train for rescue operation.

c) Crew

- i. Keep liaison with the guard.

D) TTE

- i. Make a note of doctors travelling by the train with coach and berth No.
- ii. Also note down the list of railway staff travelling on the train, if possible.
- iii. Do not misbehave with passengers in any respect and under any situation.
- iv. Report to the guard to assist him in rescue operation.
- v. Hand over the copy already made doctors' list who are travelling by the train to the guard and arrange inform them and insist them for rescue operation.
- vi. Identify the Railway staff of the train from the reservation chart to assist in rescue operation.
- vii. Wear & distribute Arm Band to staff engaged in rescue operation, if available.

E) AC Coach Attendant

- i. Meet the Accident Manager and be a member of the rescue team.

F) Pantry Car/Catering Staff

- i. Check availability of drinking water.
- ii. Arrange supply and distribute food, snacks, beverages etc, if available to the injured passengers.
- iii. Be a member of the rescue team.

G) Train Examiner

- i. Be a member of the rescue team.

H) Safaiwala

- i. Assist to rescue trapped and injured passengers under the guidance of Accident Manager.
- ii. Keep the area where the First Aid to be given and injured passenger are treated in clean condition.
- iii. Remove the Dead Bodies as and when required and cover them properly with the advice of medical person.

I) Security

- i. Look after the Dead Bodies.
- ii. Look after the luggage and belongings of the passengers of the ill fated train. They should take control of the site for protecting unclaimed property and Railway property.
- iii. The concerned Post Inspector of RPF having jurisdiction will immediately inform the matter to his Sr.DSCs/ DSCs, Divisional Security Control Room and liaise with local Police, GRP and Civil Administration for early reaching at the site for protection, etc.

Passenger Care

General:

- (i) Assistance to passengers and their relatives is of utmost importance in relieving them of some of their misery.
- (ii) Injured passengers and their relatives are to be treated with utmost courtesy, concern and sympathy to alleviate their trauma and discomfort.
- (iii) For dealing with relatives arriving from far flung corners of the country, staff fluent in the local language of the place from where the train originated should be used as interpreters.
- (iv) Commercial supervisors & Welfare Inspectors should be assigned to talk to injured passengers to ascertain from them whether they wish to call relatives.
- (v) Injured passengers should thereafter be provided with either mobile or BSNL STD phones in order to enable them to speak to their relatives.

Hospitalisation of the Injured:

- (i) The injured persons other than Railway beneficiaries should be shifted, as far as possible, to the nearest non railway hospital except in the following circumstances:
 - (a) Non availability of non railway hospital.
 - (b) Want of accommodation in the non railway hospital.
 - (c) Unsuitability of non railway hospital to render first aid.
 - (d) Difficulty of transport.
 - (e) Serious condition of the patient.
 - (f) In other circumstances considered justifiable by the attending medical officer. The injured persons other than Railway beneficiaries, when admitted in a railway hospital should be transferred to non railway hospital as and when their condition permits.
- (ii) In case there are no railway hospitals nearby, then they are to be admitted in the nearest Govt. hospitals.
- (iii) In following cases, injured may be taken to a Private Hospital.
 - When there is no railway or Govt. hospital available within a radius of, say, 8 kms. from the site of accident or,
 - When the attending doctor certifies in writing that the treatment in private hospital is necessary in the interest of the patient.
 - Except where railway doctor certifies, such injured passenger should normally be eligible to the

lowest class of accommodation in private hospitals where different scales are available.

- Where the family of the injured person desires to be provided with a higher class accommodation, the family should give in writing to pay the extra cost involved directly to hospital authorities.

(iv) For this purpose, each division should make out a working arrangement with such private hospitals as may be necessary in areas served by them so that in an emergency injury cases can be referred to hospitals concerned without loss of time.

(v) To facilitate matters and to avoid misunderstandings, CMS should draw up a list of such private hospitals bearing in mind Railway and non-Railway hospitals in the vicinity.

(vi) CMS should also settle charges to be paid for such cases for each class of accommodation.

(vii) Bills by such private hospitals should be submitted through CMS who will certify the correctness

of charges payable, before passing for payment by Sr. DFM.

(viii) Payments to private hospitals under this para can be arranged locally by the Railways and Ministry of Railways approval is not necessary. (Extract of Para 701(1) & Para 712 of Chapter VII of IRMM and Para 1421 of Indian Railway Establishment Manual and M.O.R's letter No.MH 59/MES/96/Medical dated 18/12/1959).

(ix) When injured are admitted in non-railway hospitals, railway doctors should be deputed to these hospitals to render necessary assistance, including supply of medicines as required which may not be available in these hospitals.

(x) They should also carefully monitor the condition of injured and maintain an updated list with all details.

(xi) If more than one hospital is involved, apart from deputing doctors to individual hospitals, a railway doctor should also be deputed to co-ordinate and maintain centralized updated position.

Facilities to be made Available in Hospital:

(i) There should be a separate reception counter manned by commercial supervisor or Welfare Inspector at the entry to the hospital for dealing with relatives of patients who arrive.

(ii) A chart should be displayed at this reception counter indicating ward nos. where accident patients are admitted along with their names, coach no. wise.

(iii) At the entry to each such ward, a second list should display the name of the patient, coach no. and the bed no. inside the ward.

(iv) Commercial staff and Welfare Inspector on duty staff at that hospital should carry a list indicating the name, address and telephone no. of relatives as given by the patient, and whether they have been informed or not.

(v) Arrangements should be made to inform the next of kin or a relative or friend of the deceased, in case identity of the person involved in accident becomes known.

(vi) As each relative arrives his name should be marked in the list against the passenger's name.

(vii) Reception counter should be provided with BSNL telephone with STD facility.

(viii) There should be 2 mobile telephones for taking to patients inside wards for making outgoing calls.

(ix) Complete medical care of all passengers including payment of medical bills till their final discharge should be provided.

Communication:

(i) STD equipped telephone should be made available to passengers to communicate with their relatives.

(ii) BSNL/Railway Telephones available at adjoining Stations/Cabins/Gates shall be extended to the accident site.

(iii) PCO telephones and other BSNL phones in nearby localities/villages/towns shall also be extended to the accident site by persuading owners of these phones.

(iv) Payments for such telephone connections will be made from station earnings.

(v) Sr. DSTE should hire few mobile phones to meet the need of stranded passengers, wherever cellular phone connectivity is available if the accident happens in mid section. Stranded passengers should be permitted to use these phones free of charge.

(vi) These cell phones should be used to convey information regarding the safety of passengers to their friends and relatives.

Arrival of Relatives:

(i) After a few hours, next of kin of deceased and relatives of injured passengers start arriving at the accident site.

(ii) Adequate number of display boards should be available on ARMVs/ARTs for being put up at accident site.

(iii) By the large these display boards should indicate the direction towards the CAC.

(iv) These indication boards should be displayed near those areas where incoming relatives arrive and congregate.

(v) Periodic announcements on loud speakers should also be made for guiding them to the CAC.

(vi) CAC should have different counters for various purposes as detailed below in Section 8.

Taking Care of Relatives:

(i) At CAC, number of commercial supervisors & Welfare Inspector should be available for the purpose of taking arriving relatives to different hospitals etc.

(ii) After relatives arrive they should first of all go through the reservation charts and locate the name of the passenger.

(iii) Thereafter if details are available as to which hospital passenger has been admitted then commercial supervisor or Welfare Inspector should accompany him to that hospital.

(iv) A hired vehicle should be provided for carrying them to various hospitals and mortuary.

(v) The commercial supervisor or Welfare Inspector should stay with the relative until he has been able to either find the injured passenger or identify the dead body.

(vi) Thereafter, they should help him in completing all formalities in the CAC.

Single Window Clearance:

(i) CAC should have provision of single window clearance for all legal formalities & multiplicity of paper work.

(a) Reservation chart, for locating the name.

(b) List of dead and injured along with name of hospital. The name of passengers involved should be checked up from the list of dead or injured, if available, and their current status informed

- (c) Counter for providing commercial supervisor or Welfare Inspector or as escort along with a vehicle, for accompanying the relative and going around to various hospitals or mortuary.
- (d) Railway doctor for issue of Medical Death Certificate.
- (e) Govt. doctor for issue of Post Mortem Clearance, in case the same is necessary.
- (f) Municipality official for issue of Official Death Certificate.
- (g) Local police for issue of authority for handing over of dead body.
- (h) Claims counter - Payment of ex-gratia and issue of Claims Compensation Form.
- (i) Counter for helping performance of last rites in case relatives decide to cremate the body there itself.
- (j) Pass counter for issue of return journey pass.
- (k) Return journey facilitation counter will make arrangements for return journey.

Stay of Relatives of Dead and Injured:

- (i) Commercial supervisor or WLI deputed with relatives should also arrange for their stay and accommodation.
- (ii) Depending upon the need, accommodation in hotels/dharamshalas would be hired for accommodating passengers.
- (iii) Arrangements should be made for their meals etc. Contract should be given for providing cooked food to relatives.

Performance of Last Rites:

- (i) In many cases relatives decide to perform last rites at the place of accident itself instead of taking the body back to their native place.
- (ii) This is mostly on account of:
 - Bodies being mutilated,
 - Bodies being in a state of decomposition,
 - Native place being far off,
 - For overcoming logistic problems of taking the body back.
- (iii) In such cases Railways should render appropriate assistance to relatives for performing last rites.
- (iv) Railways should locate:
 - the nearest cremation or burial ground as the case may be.
 - shopkeepers who supply necessary material for funeral rites.
 - priest for performing the ceremony.
- (v) The above information would be conveyed to relatives and transport provided for carrying the body.
- (vi) Above duties are to be performed by Personnel department.
- (vii) Commercial supervisor or Welfare Inspector who has been deputed for relatives of a particular passenger should help them out in this endeavour.

Departure of Relatives of Dead and Injured:

- (i) CAC should have counters for helping relatives regarding their return journey.
- (ii) Personnel branch staff at the CAC should be available for issuing complimentary passes for their return journey.
- (iii) Reservation of berths should be provided on trains. Such reservation should be provided only from the accident site onwards.

- (iv) Extra coaches should be attached to trains going to these destinations for the next 2 or 3 days. These extra coaches should be brought in locked condition from the originating station.
- (v) Reserved space in luggage portion of SLRs for some of them to carry back bodies in coffins etc, in case they so desire.

Media Management Plan

Duties of Pr Organisation:

- (i) PRO and his team will collect whatsoever information is available from Divisional Control Office and first information would be released to the media within 60 minutes of intimation of the accident.
- (ii) The information shall include telephone numbers of Helpline Enquiry Booths.
- (iii) PRO and the entire PR organization should proceed to the accident site in the 1st Special train.
- (iv) Number of photographers with digital cameras and video photographers should also be taken along to the accident site for taking still/video photographs of affected rolling stock, & other vital clues including condition of track in consultation with OC site.
- (v) PRO will be available in the UCC during the day.
- (vi) Responsible PR supervisors should be deputed during night shift for interacting with the media, if necessary.
- (vii) PRO will organize Press Briefings at fixed timings.
- (viii) PR organization shall monitor various important media channels to keep track of media reporting. Suitable corrections/clarifications may also be issued, if required.

Important Telephone Numbers of Persons or Organizations for Rescue & Relief in case of any Railway Disaster

- **Head Quarters: Disaster management control adjacent to Emergency control**

The following telephones are provided for Disaster management control.

- FP Rly phone – 24590, 24588 , 24591
- GM I/C no. - 3877, 3878
- BSNL phone with ISD to be shifted from

i. PCSTE-chamber -No. 22300444

ii. PCMM-chamber - No. 22305481

iii. PCE-chamber - No. 22300442

- BSNL phone No. 22316059 to be shifted from the chamber of Dy.CSO/S&T -for Photo reception of accident site to the Hqrs.
- FAX No. 24591 (Rly/FP)/033-22316059(BSNL)

- **Disaster Management in Divisions: Sealdah Division**

In Disaster Room the following communication is provided.

- Specific DOT phone for accident information no. – 10725
- Sr.DSTE/SDAH-chamber phone with STD no. 23503076(Extended)
- ADRM/T/SDAH-chamber phone with STD no. -23502456(extended)

- Chief controller/SDAH phone with ISD no.-23501100
- Rly phone no.-32592 & 32593 These Nos. have the facility of O/G & I/C from BSNL Numbers.
- Control Test/room/SDAH provided with FAX no. 32550(Rly) & BSNL phone with STD no. -23507997

Satellite Telephones Provided over Eastern Railwayno. Divn Location Number

HQRS Fairlie Place	8991112683/ 8991112684
SDAH Ranaghat/ART	891112689
Sealdah/ART	8991112690

HWH Control Test Room

Howrah	891112691
Howrah/ART	8991112692

BSNL phone to satellite telephone

0 + ID no. of Satellite telephone

Satellite telephone to BSNL phone

Country code (say 91) + Local Code (Say 33 for Kolkata)+BSNL No.

Dialing procedure for Satellite telephone

Country Code (Say 91) + ID No. of Satellite Telephone

SPECIFIC TELEPHONENUMBER FOR ACCIDENT INFORMATION OF E.RLY

- HWH – 033-10723/24
- SDAH – 033-10725

Telephone Number of All Zonal Railways Gms & Drms Eastern Railway

HEAD QUARTERS	DIVISIONS		
KOLKATA	Howrah	DRM	020-22000 (Rly)/ 033-26412348 M-9002022000
GM	Sealdah	DRM	020-32000 (Rly)/033-23505090 M-9002021000

Telephone directory of stations in Eastern Railway Sealdah divn within kmc area

STATION	Stations Code	BSNL PHONE	Rly Phone	Mobile
Tala	TALA	033-25332986	37-547/514	
Bagbazar	BBR	033-25332932	37-514	
Sovabazar	SOLA	033-22705115		
Barabazar	BZB	033-22594344	37-515	
BBDBAG	BBDB	033-27040230	37-511	
EdenGarden	EDG	033-27040338	37-516	
Princepghat	PPGT	033-22131363	37-517	
Lake gardens /F	LKF	033-24227440		
Mile 5B	M5B	033-24226767		
Tollyganj/F	TLG	033-24245628		

New Alipur	NACC	033-24005100	38121	
Majherhat	MJT	033-24012515	38115	
BraceBridge	BRJ	033-24012129	38114	
Ballyganj	BLN	033-24404764	32562	9002079943
Park circus/F	PQS	033-27031203		
Dhakuria/F	DHK	033-24053835		
Bagha Jatin/F	BGJT	033-24256322		
Jadavpur/F	JDP	033-24298104		
Garia/F	GIA	033-24327898		

THE BHARAT SCOUT & GUIDE, EASTERN RAILWAY

LIST OF CONTACT PERSONS

Unit	Rank	Contact No.
Howrah	Dist Secy	(O) 22218Rly (R) -03212-275461 9433577517
Sealdah	DisttOrg.Comm (S) Distt.Secy.	(R) 25627152 / 9433033929 (R) 23520166 9433248094

ANNEXURES

A.1 Importhat Telephone Numbers of KMC

Sl. No	Member	Mobile	Land
1	Chair Person of KMC	98300-09992/ 94330-97666	2286-1112
2	Mayor : (Water-Supply, Finance & Acctts., Personnel, Grievance, Cultural Affairs, KEIP, Licence, Building, and other department not allotted to other members are looked after by Hon'ble Mayor)	98300-37445 9830037493	2286-1111 /1211
3	Dy. Mayor : (Health, Vector Control, Disinfectant Scheme, Assessment-Collection, Amusement-collection, Archives, P&FA (F&SS), Central Medical Stores, MTM TB Hospital ,Amusement,Personnel.	98305- 55111/9433020 389	2286- 1117/2286- 1120
4	Member Mayor-In-Council : (Solid Waste Management, Tolly'sNullah).	94330-33256/ 98312-88407	2286-1116
5	Member Mayor-In-Council : (Parks& Gardens &Urban Forestry, Sports, Advertisement & Parking)	98300-53524	2286-1114
6	Member Mayor-In-Council :(Lighting & Electricity)	98301-51503	2286-1119
7	Member Mayor-In-Council : (I&PR, EWS, Printing, IUM, Big-dia.Tube well)	98300-56349	2286-1123
8	Member Mayor-In-Council : (Sewerage & Drainage , including (Drainage Pumping Stations), SC(Mechanical) & Central Stores)	98302-60879/ 93318-60879	2286-1115 2286-1000
9	Member Mayor-In-Council : (Health Insurance Scheme, BPL, NSAP, NFBS, NGR, Swasthasathi, RSBY, Rupashri, Khadya Sathi)	98311-11089	2286-1122 2286-1000
10	Member Mayor-In-Council : (Bustee Development, Environment, NULM)	98303-61410	2252-0280 2286-1000
11	Member Mayor-in-Council : (Market)	93391-95010	2286-1118
12	Member Mayor-In-Council : (Roads & Engineering and related Plants & Machineries))	98300-44712	2286-1113 2286-1000
13	Member Mayor-In-Council: (W.B.U.W.E.S)	98300-13128	2252-0161 2286-1000
14	Member Mayor-In-Council: (Education, Kanyashree Prakalpa)	98311-27794	2252-0281 2286-1000
15	Member Mayor-In-Council : (Housing, Gitanjali, Law, TPDD, PPP)	98317-69177	2252-0470

BOR O. No.	WARD NO.	NAME OF COUNCILLOR	CONTACT TELEPHONE NOS.	
			Land	Mobile
		Borough Chairman : Shri Tarun Saha	2557-4232	9830023789/9830054789

I	1	Smt. Sita Jaiswara	2528-4248	9007402438	
	2	Smt. Puspali Sinha		9836520198/9831338633	
	3	Dr. Santanu Sen	64560186	9830144496	
	4	Shri Goutam Haldar	2546-0100	9433362848	
	5	Shri Tarun Saha	2557-4232	9830023789/9830054789	
	6	Smt. Suman Singh	2557-4232	9831201058/9831054044	
	7	Shri Bapi Ghosh		9836820675	
	8	Shri Partha Mitra		9830034314/9088799918	
	9	Smt. Mitali Saha	2554-1714	9830610849	
		Borough Chairman : Sri Sadhan Saha	2555-9081	9831868515	
II	10	Smt. Karuna Sengupta	2530-1304	9433138330	
	11	Shri Atin Ghosh	2286-1120	9830555111/9433020389	
	12	Smt. Pranati Bhattacharjee	2555-3636	9831839001	
	15	Smt. Shukla Bhore	2351-9104	9830779622	
	16	Shri Sadhan Saha	2350-3282	9831868515/9674092931	
	17	Shri Mohan Kumar Gupta		9883013939/9163099922	
	18	Smt. Sunanda Sarkar	2555-1112	9830671437/9830790439	
	19	Smt. Sikha Saha		9830409176	
	20	Shri Vijay Upadhyay	2218-5836	9830048348	
			Borough Chairman : Sri Aninda Kishore Routh	2362-9955	9830434037
	III	13	Shri Anindya Kishor Routh	2530-0108	9830434037
14		Shri Amal Chakraborty		9831407010	
29		Shri Prakash Upadhyay	2352-1444	9831063227/9831704602	
30		Smt. Papiya Ghosh (Biswas)		8013602575	
31		Smt. Sunanda Guha		9831202081	
32		Shri Santi Ranjan Kundu		9874936391/7044366647	
33		Shri Pabitra Biswas		9433019377	
34		Smt. Alokanda Das		9903717200/9231503831 /9231842932	
35		Shri Ashutosh Das		9830982785/9433012785	
		Borough Chairperson: Smt Smita Bakshi	2272-2933	9433037498	
IV	21	Smt. Sujata saha	2270-9215	9830296206/9051382167	
	22	Smt. Meena Devi Purohit	2259-3195	9832116891/9830712297	
	23	Shri Vijay Ojha		9903101101/9007300200	
	24	Smt. Ellora Saha		9831061091	
	25	Smt. Smita Bakshi		9674000740/9433037498 /9830667498	
	26	Shri Tarak Nath Chattopadhyay	2530-4032	9830482294	
	27	Smt. Minakshi Gupta		9830632006/9830522006	
	28	Iqbal Ahmed	2351-2815	9748764758/9831704758	

			/2352-0162	
	38	Smt. Sadhana Bose	2360-1308	9748076372
	39	Md. Jasimuddin		9674168167
V	Borough Chairperson: Smt Aparajita Dasgupta		2241-7288	9836042431
	36	Shri Rajesh Khanna		9830194564
	37	Smt. Soma Chaudhuri		9830083494/9433033494
	40	Smt. Swapna Das	2360-5499	9163111811/9432014186 / 94331-65150
	41	Smt. Reita Chowdhury	2269-5959	98301-05959
	42	Smt. Sunita Jhavar		9830050425/9830231715
	43	Shagufta Parveen		9051083085/9903601118 / 9330891775
	44	Rehana Khatoon		9748695425
	45	Shri Santosh Kumar Pathak	2248-2714	99033-72714 /9433677777
	48	Shri Satyendra Nath Dey		9830052403/9062888193
	49	Smt. Aparajita Dasgupta		9836042431/9748742431
	50	Smt. Mousumi Dey		9143057675/9830843258
VI	Borough Chairperson: Smt Sanchita Mondal		2252-7526 2286-1216	9331063129
	46	Shri Gopal Ch. Saha	6500-0509	9831205849/9143723335
	47	Smt. Suman Singh		9748074720/9903880095
	51	Smt. Sanchita Mondal	2237-2166	93310-63129
	52	Shri Sandipan Saha	2226-5490/ 2249-9696	8016095745
	53	Smt. Indrani Saha Banerjee	2265-6465	9831111089
	54	Amiruddin (Bobby)	4004-5808	9339195010
	55	Shri Arun Kumar Das	2286-5965	9874490579
	60	Kaiser Jamil		9831581136/9836455470
	61	Manzar Iqbal	2217-0490	9830151503/9339521571
	62	Sana Ahmed		9830094780
VII	Borough Chairman: Sri Jiban Saha		2290-6635	9830041203
	56	Smt. Dipali Das	2284-9505	9830448246
	57	Shri Jiban Saha		9830041203
	58	Shri Swapan Samaddar		9830361410
	59	Smt. Jaly Bose		7059437792
	63	Smt. Susmita Bhattacharya (Chatterjee)	2264-2857	9831118321/8017339060
	64	Iqbal Ahmed	22297089/ 2286-1117	9831769409
65	Smt. Nibedita Sharma		9831325805	

	66	Faiz Ahmed Khan	2343- 9956	9830422435
	67	Shri Bijan Lal Mukherjee	2442-5553	9239022479/9674954030
VIII	Borough Chairman: Sri Sandip Ranjan Bakshi		2465-2860	9831103915 9831195713
	68	Smt. Sudarshana Mukherjee		9830389589
	69	Shri Sukdev Chakraborty	2475-2321	9433072501
	70	Shri Ashim Kumar Bose		9007787742
	72	Shri Sandip Ranjan Bakshi	24753044/ 2474-1737	9831103915/9831195713
	83	Smt. Manjusree Majumder	2455-4830	9831882084
	84	Smt. Paromita Chatterjee	2419- 2101/2099	9831770655/ 9830058033
	85	Shri Debasish Kumar		9830053524
	86	Smt. Tishta Biswas (Das)		9831993220/983192459
	87	Shri Subrata Ghosh		9831896710/9874627855
	88	Smt. Mala Roy	22861112/ 2466-2015	9830009992/9433097666
	90	Shri Baiswanor Chatterjee	2461-2874	9831769177
	IX	Borough Chairman: Sri Ratan Malakar		2479-1833
71		Smt. Papia Singh		9830094407/9163049258
73		Shri Ratan Malakar		9830620988
74		Smt. Deblina Biswas		9830783522/8617747240
75		Belquis Begum		9331438295/8777497560
76		Shri Sasti Das		9831349803/9748979497
77		Shamima Rehan Khan		7686954988/9433451882
78		Nezamuddin Shams		9831070697/9748735697
79		Shri Ram Pyare Ram	2439- 6729 /1500	98300-13128
80		Md. Anwar Khan		9330803838/9903703838
	82	Firhad Hakim	2286- 1111/1211	9830037445
X	Borough Chairman: Sri Tapan Dasgupta		2422-9043	9339722701
	81	Smt. Jui Biswas	2299-2909	9088080000
	89	Smt. Mamata Majumdar		9830176895
	91	Smt. Annapurna Das	2442-1065/ 2589	9836085937
	92	Smt. Madhuchhanda Deb		9433314901/9874113350
	93	Shri Ratan Dey		98300-44712
	94	Smt. Archana Sen gupta		9831697765/9831733090

	95	Shri Tapan Dasgupta	2413-4760	9339722701
	96	Shri Debabrata Majumder	2412-4252	9831288407/9433033256
	97	Smt. Mitali Banerjee		9903920869/9831202556
	98	Shri Mrityunjoy Chakraborty		9836542916
	99	Shri Debasish Mukherjee	2421-8298	9432321210
	100	Smt. Susmita Dam	2421-8000	7278788274/7278788263
XI	Borough Chairman: Sri Tarakeswar Chakraborty		2425-8138	9831249249
	103	Smt. Nandita Roy		8902550681
	104	Shri Tarakeswar Chakraborty		9831249249
	110	Shri Arup Chakraborty		9830934467
	111	Shri Chayan Bhattacharya	2435-1153	9903345432/8621006264
	112	Smt. Anita Kar Majumdar		9331958077
	113	Shri Gopal Roy	2431-8888/ 7676	9433083621/9331048481
114	Shri Biswajit Mandal		8334881677/9830242277 /9836094083	
XII	Borough Chairman: Sri Sushanta Kumar Ghosh		2418-1857	98301-75740
	101	Shri Bappaditya Dasgupta		9831044455/9831055577
	102	Smt. Rinku Naskar		9007293438
	105	Shri Tarun Mondal		9903091999
	106	Smt. Madhumita Chakraborty		9874739275/7003695238
	107	Shri Sushanta Kumar Ghosh		9830175740
	108	Shri Shyamal Banerjee		9831007402
109	Smt. Ananya Banerjee		9903047182	
XIII	Borough Chairman: Sri Susanta Ghosh		2397- 1102/1053	9830096296
	115	Smt. Ratna Sur	2402-2726/	9830943950
	116	Smt. Krishna Singh	2355-6139/ 3638/2096	9830335988
	117	Shri Amit Singh		9830088756
	118	Shri Tarak Singh		9830260879/9331860879
	119	Smt. Ashoka Mondal		9830428933
	120	Shri Susanta Ghosh		9830096296/9433084393
122	Smt. Soma Chakraborty	2402-2124	9051010055	
XIV	Borough Chairman: Sri Maniklal Chatterjee		2397- 1102 / 1053	9830680629
	121	Shri Manik lal Chatterjee		9830680629
	127	Shri Nihar Bhakta		9831930069
	128	Smt. Ratna Roy, Majumder	2397-3396	9836929205

	129	Smt. Sanhita Das		9836667254
	130	Shri Avijit Mukherjee	2252- 0281	9831127794
	131	Shri Sovan Chatterjee	2445-9902	98300-56697
	132	Smt. Sanchita Mitra		9831736391/9836426137
XV	Borough Chairman: Sri Ranajit Shil		2469-6049	9674670255
	133	Shri Ranajit Shil		9674670255/8697660740
	134	Shams Iqbal	2469-9313	9903632837
	135	Akhtari Nijami		9748883337/9331677720
	136	Shamsuzzaman Ansari	2469-2683	98300-56349
	137	Rehmat Alam Anssari	2469-6410	9830042133/9331808614
	138	Tapsira Begum		98741-73555
	139	Aftabuddin Ahmed		9830127451/9051362603
	140	Abu Md. Tarik		9830402585/9674327976
XVI	Borough Chairman: Sri Indrajit Bhattacharya		2467-0057	9433403469
	123	Shri Sudip Polley		9831692625/9830182814
	124	Shri Rajib Kumar Das		9830029450
	125	Shri Ghanasree Bagh		9051529517
	126	Smt. Shipra Ghatak		8697670776/9830242696
	142	Shri Raghunath Patra		8697672746/9143009751
	143	Shri Indrajit Bhattacharya		9433403469/9748499376
	144	Smt. Shefali Pramanik(Patra)		9831619054/9831244438

A.2 ESF STRUCTURE OF KOLKATA MUNICIPAL CORPORATION

A.2.1 Important Contact Numbers of KMC

SLNo	Officers	Mobile No	Land No
1	Municipal Commissioner	98300-33355	2286-1234/1034
2	Special Municipal Commissioner	94323-13646	2286-1271
3	Municipal Secretary	98366-65845	2286-1265

A.2.2. KMC Control Room

Important Telephone Nos. of Different Control Room

K.M.C. Control Room HQ		2286 -1212 / 1313 / 1414
		MOBILE NO. -9830324330
	Borough-I	9433112272 / 25574232
	Borough-II	9830620633 / 25559081
	Borough-III	9831518635 / 23629955
	Borough-IV	9874045716 / 22722933
	Borough-V	9830324328 / 22413715

K.M.C. Control Room In Borough Offices (6.00 am to 10.00 pm)	Borough-VI	9830120243 / 22861216
	Borough-VII	9433899765/ 22906635
	Borough-VIII	9830478904/ 24652860
	Borough-IX	9833531022 / 24791833
	Borough-X	9831349740 / 24229053
	Borough-XI	9433867289 / 24258138
	Borough-XII	9831635931 / 24181857
	Borough-XIII	9830345868 / 23971102
	Borough-XIV	8981881366 / 23971102
	Borough-XV	9830018733 / 24696049
Borough-XVI	9830365991 / 24670057	

Important Telephone Nos. of key officials of the KMC Control Room for Disaster Management (During Monsoon)

Name	Designation	Contact Number
Sri Harihar Prasad Mondal	Municipal Secretary	98366-65845
Sri S L Mukherjee	Add. Secretary	98304-00013
Sri Amit Kumar Roy	D.G. (S&D)	94330-93803
Sri S. Bhowmik	DG (Elec.)	98303-24348
Sri Dipankar Dutta	Caretaker	9231511630

A.2.3. Parks & Squares Dept. Of KMC

Important Telephone Nos. of key officials of the KMC Parks & Squares Department

Name	Designation	Contact Number
Sri Debasish Chakraborty	D.G (Parks & Squares)	98368-86508
Sri Somenath Sen	OSD (P &S)	98306-02809
Sri Santanu Roy	Dy.C.E. (C)(P&S)	94333-93586

A.2.4. Solid Waste Management Dept. of KMC

Important Telephone Nos. of key officials of the KMC Solid Waste Management Department

Sl. No	Designation	Contact Number
1	D.G.(SWM)	98365-36419
2	Deputy Chief Engineer (SWM - II)	98305-82716
3	Ex Engr(C - I)	87773-73872
4	Ex Engr(C - II)	94346-43284
5	Ex Engr(C-III)	94337-03922
6	Ex Engr(C-IV)	94337-03922
7	Ex Engr(C-V)	91432-33480
8	Deputy Director - II	98313-15171
9	Deputy Director- III	94336-9114
10	Assistant Director / Br-I	81686-18463
11	Assistant Director /Br- II	99334-70308
12	Assistant Director /Br-III	86976-48526
13	Assistant Director /Br-IV	86700-49684

14	Assistant Director /Br-V	86370-06714
15	Assistant Director /Br-VI	98320-59593
16	Assistant Director /Br- VII	98836-15213
17	Assistant Director /Br-VIII	94779-34926
18	Assistant Director /Br-IX	98741-48046
19	Assistant Director /Br- X	92392-08615
20	Assistant Director /Br- XI	94331-25365
21	Assistant Director /Br- XII	81012-46361
22	Assistant Director /Br-XIII	84360-76566
23	Special officer /Br- XIV	98319-62122
24	Assistant Director /Br-XV	89279-54836
25	Assistant Director /Br-XVI	80010-56982
26	Ex.Engr.(M)	62909-18425
27	Ex.Engr.(M)	92316-48631
28	Ex.Engr.(M)	97322-08755

A.2.5. Sewerage & Drainage Dept. of KMC

Important Telephone Nos. of key officials of the KMC Sewerage & Drainage Department

Sl. No	Designation	Mobile No.	Land No.
1	D.G. (S&D)	94330-93803	2286-1253,2286 1000, Extn-2661,Intercom-253
2	Deputy Chief Engineer (M) Sewer Cleansing Deptt	98303-25216	
3	Deputy Chief Engineer (Elec.)	94337-26103	
4	Dy. CE(C)/North	99033-35919	
5	Dy.C.E.(C)/Central	90078-38329	
6	Dy.C.E.(C)/South	99031-72751	
7	Executive Engineer (Dr.)(Central)	94339-91855	2286-100(Ext-2488)
8	Executive Engineer (M) Sewer Cleansing(North)	94747-47033	2528-7755
9	Executive Engineer (Dr.)(North)	94336-25406	2286-100(Ext-2551)
10	Executive Engineer(E) (B.D.P.S.)	98742-72283	2344-9142
11	Executive Engineer (M) (D.L.P.S)	94339-23082	2323-5536
12	Executive Engineer (M) (P.B.P.S.)	98301-09712	2425-5000
13	Executive Engineer (E) (M. D. P.S.)	80137-63737	2350-1166
14	Executive Engineer (E) (Kudghat)	98303-11559	

A.2.6. Water Supply Dept. of KMC

Important Telephone Nos. of key officials of the KMC Water Supply Department

SL. No.	Designation	Mobile No.	Land No.
1	D.G (WS)	98303-17475	
2	O.S.D(WS)	98303-24317	
3	Deputy Chief Engineer(WS)-I	86977-47050	
4	Deputy Chief Engineer(WS)-II	98305-91330	
5	Deputy Chief Engineer(WS)-III	98303-17108	
6	Executive Engineer(WS)-North	86977-08270	
7	Dy. Chief Engineer (WS)-Central	98312-72690	
8	Executive Engineer(WS)-South	92315-03929	
9	Executive Engineer(WS) – JU (Xi)	94324-30786	
10	Executive Engineer(WS) – JU (Xii)	94334-23695	
11	Executive Engineer(WS)-SSU	89026-47020	
12	Executive Engineer(WS)-GRU	94324-41553	
13	Executive Engineer(WS)-West	93308-61998	
14	Executive Engineer(WS)-Br-IX	99037-39403	
15	Executive Engineer(WS)-Tubewell	98304-73458	
16	Executive Engineer(WS)-IGWTP	92312-12584	
17	Executive Engineer(WS)-TPS	94337-04384	
18	Executive Engineer(WS)-ARSM	94324-20410	
19	Executive Engineer(WS)-WPS&MGPS	98314-56638	

A.2.7. Health Dept. of KMC

Important Telephone Nos. of key officials of the KMC Health Department

SL. No.	Designation	Mobile No.	Land No.
1	Chief Municipal Health Officer	98300-61346	2286-1238,Extn-2503
2	Deputy Chief Municipal Health Officer III &SPIO (health)	98300-11041	2286-1000,Extn-2265
3	Deputy Chief Municipal Health Officer V	98302-60964	2286-1240/2286-1000 extn-2216

4	Nodal Officer(Health) and Nodal Officer (FSSAI)	93397-46178	Extn-2214
5	Chief Vector Controll Officer	98302-77664	2286-0050
6	Executive Health Officer (HQ)	94335-49976	2286-1238
7	Manager (Health)	98301-13795	2252-0245
8	MSO	98310-36572	
9	Executive Health Officer -Borough-I	90384-31625	2546-0846
10	Dy. CMHO-VI /Executive Health Officer-Borough - II	98300-62150	2555-9143
	Executive Health Officer/Br - III	94333-81645	2364-8404
11	Executive Health Officer /Br - IV	98302-25902	2272-4560
12	Executive Health Officer /Br - V	98300-53604	2241-4802
13	Executive Health Officer /Br - VI	98300-89545	2286-1043
14	Executive Health Officer/Br - VII	94333-81645	2265-1020
15	Executive Health Officer/Br - VIII	98311-37782	2464-9518
16	Executive Health Officer /Br - IX	98310-87347	2479-1434
17	Dy. CMHO-I / Executive Health Officer /Br - X	94332-64105	2422-6622
18	MOIC/ Executive Health Officer /Br - XI	98302-84729	2435-5968
19	Executive Health Officer /Br - XII	98310-45031	2418-1970
20	Executive Health Officer /Br - XIII	91637-84316	2447-1649
21	Executive Health Officer /Br - XIV	93309-48282	2397-1041
22	Executive Health Officer /Br - XV	98311-63055	2489-3997
23	MOIC/Executive Health Officer /Br - XVI	94335-61968/94773-03200	2497-5080
24	Superintendent CMS	98361-54491	2265-7774
25	Ambulance H.Q		22197202/7201
26			

[A.2.8. Building Dept. of KMC](#)

Important Telephone Nos. of key officials of the KMC Building Department

SL. No.	Designation	Mobile No.	Land No.
1	Director General (Bldg.)	98303-24310	2286-1277(Dir.); 22861000,Extn 2451, Intercom-277
2	D.G. (C)/ Building/ South	98361-27236	
3	Deputy Chief Engineer (Bldg)(North)	98310-14687	
4	Deputy Chief Engineer (Bldg) Added Area	89107-35620	
5	E. E. (C) - Borough I	98306-50331	

6	E. E. (C) - Borough II	98306-50331	
7	E. E. (C) - Borough III	94333-23164	
8	E.E.(C) - Borough IV &V	94333-23164	
9	E. E. (C) - Borough VI	90511-70927	
10	E.E.(C)- Borough VII	8583858338	
11	E.E.(C) - Borough VIII	9433125270	
12	E. E. (C) - Borough IX	98368-16981	
13	E. E. (C) - Borough X	94334-45273	
14	E. E.(C) - Borough XI	98831-30267	
15	E.C.(C)-Borough XII	94334-74871	2416-5914
16	E.E (BR-XIII, XIV)	98303-62267	
17	E.E. Borough XV	94333-93979	
18	E. E.(C) - Borough XVI	98303-62267	

A.2.9. Civil Dept. of KMC

Important Telephone Nos. of key officials of the KMC Civil Department

SL. No.	Designation	Mobile No.	Land No.
1	Director General (Civil)	98303-24329	2286-1249
2	Deputy Chief Engineer (Central & HQ)	99033-35919	2286-1249
3	Deputy Chief Engineer (South)	96742-79805	2286-1249
4	Deputy Chief Engineer (Central- west)	94334-25822	2286-1249
5	Executive Engineer (C) – Borough I	94331-12272	2557-4232
6	Executive Engineer (C) – Borough II	98306-20633	2555-9081
7	Executive Engineer (C) – Borough III	98315-18635	2362-9955
8	Executive Engineer (C) – Borough IV	98740-45716	2272-2933
9	OSD- Borough-V	98303-24328	2241-3715
10	Executive Engineer (C) – Borough VI	98301-20243	2286-1216
11	Executive Engineer (C) – Borough VII	94338-99765	2290-6635
12	Executive Engineer (C) – Borough VIII	98304-78904	2466-6766
13	Executive Engineer (C) – Borough IX	94335-31022	2479-1833
14	Executive Engineer (C) – Borough X	98313-49740	2422-9043
15	Executive Engineer (C) – Borough XI	94338-67289	2425-8138
16	Executive Engineer (C) – Borough XII	98316-35931	2418-0646
17	Executive Engineer (C) – Borough XIII	98303-45868	2468-1034
18	Executive Engineer (C) – Borough XIV	89818-81366	2468-1034
19	Executive Engineer (C) – Borough XV	98300-18733	2469-6049
20	Special Officer (C) – Borough XVI	98303-65991	2467-0057

A.2.10. Lighting Dept. of KMC

Important Telephone Nos. of key officials of the KMC Lighting and Electricity Department

SL	Designation	Mobile No.	Land No.
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No			
1	Director general (Lighting)	98303-24348	2592-1160
2	Deputy Chief Engineer (Lighting)	98303-24317	
3	Executive Engineer (Crematorium)	943361-1649	
4	Executive Engineer (E)/Zone – I	98308-31808	
5	Executive Engineer (E)/Zone – II	98748-22082	
6	Executive Engineer (E)/Zone – III	94331-06613	
7	Executive Engineer (E)/Zone – IV	94338-99378	
8	Executive Engineer (E)/Zone – V	98306-16541	
9	Executive Engineer (E)/Zone – VI	98303-91678	
10	Executive Engineer (Electricity-I)	94337-22131	
11	Executive Engineer (Electricity-II)	97335-16312	
12	Executive Engineer (Lighting)/HQ	96747-06452	
13	Executive Engineer (Lighting)/CMO	92316-12888	

A.2.11. Roads Dept. of KMC

Important Telephone Nos. of key officials of the KMC Roads Department

SL. No.	Designation	Mobile No.	Land No.
1	D. G (Mech /Roads)	94330-91094	2252-2601 Ext-2622
2	D.G (Roads)	98300-43982	2252-2590
3	OSD (Roads)	98303-24327	
4	Deputy Ch. Engineer (Mech./Plants), Controlling Officer (EWS)	94331-47668	
5	Executive Engineer (C)/ Roads/ South Br- IX,X, XIV to XV	98300-40205	
6	Executive Engineer (C)/ Roads/ South Br- XI,XIII	98308-39760	
7	Executive Engineer (C)/Roads/South Br- XVI	9433	
8	Executive Engineer (C)/Roads/South Br- XI, XIII	98308-39760	
9	Executive Engineer (C)/Roads/North Br-I,II,IV to VI	98312-35711	
10	Executive Engineer (C)/Roads/North Br-III & VII,VIII,XII	86978-08761	
11	Executive Engineer (M)/P/Palmer Bazar	98304-73358	2329-1538
12	Executive Engineer (M)/P/Goragacha	86970-58184	2401-2245
13	Executive Engineer (M), Roller	98302-44847	

A.2.12. Disaster Management Cell of KMC

Name	Designation	Contact Details
Dr. Mugdha Chakraborty	Disaster Professional	9051312466 (Mob) 033-2252-0153(Land) mugdhachakraborty85@gmail.com

A.3 ESF STRUCTURE OF WEST BENGAL FIRE & EMERGENCY SERVICES

A.3.2. Important Telephone Numbers of Fire Services Head Quarter

Directorate Control Room: (033) 2252-1165 / 2222-2225/3227/1173
Emergency Dial – 101

A.3.3. Key WBF&ES Officers for Disaster Management in Kolkata City

Hierarchy of WBF&ES officers who will play important roles in Disaster Management

SL. No.	Name	Designation	Contact Details
1	Shri Jag Mohan, I.P.S.	Director General	D - 2252 - 7172, 2252 - 1165 (through D.G's Control) Extn. - 200, Fax - 2252 – 2223 email:dg.wbfes@gmail.com
2	Shri Niladri Chakraborty, I.P.S.	Additional Director General	2252-1165 (Through D.G. Control) EXTN.- 210, Fax- 2252-2223
3	Shri Abhijit Pandey	Director In-charge	2252-1165 (Through D.G. Control) EXTN.- 202, Fax- 2252-2223 email: director.wbfes@gmail.com
4	Shri Tarun Kumar Sinha	Deputy Director (Fire Prevention) & Divisional Fire Officer, South Kolkata Division	2252-1165 (Through D.G. Control) EXTN.- 211, Fax- 2252-2223
5	Shri Asim Sarkar	Divisional Fire Officer, North Kolkata Division	2241-4545, Mob-9830565760

A.3.4. Operational Staff Strength (Fire Service Station Wise)

Sl. No.	Name of Fire Station	Division	Station Officer	Sub. Officer	Leader	F.E.O.D.	F.O
1	Head Quarter	South kolkata	7	7	31	41	43
2	Kalighat	South kolkata	1	1	10	8	9
3	Tollygunge	South kolkata	1	1	8	7	15
4	Baishnabghata Patuli	South kolkata	1	1	4	5	11

5	Gariahat	South kolkata	1	1	10	6	14
6	Alifnagar	South kolkata	2	1	4	8	7
7	Garden Reach	South kolkata	-	1	4	3	7
8	Master Da Surya sen	South kolkata	1	1	7	7	12
9	Pragati Maidan	South kolkata	-	2	8	6	12
10	Central avenue	North kolkata	6	4	16	26	32
11	Nimtala	North kolkata	1	2	6	4	8
12	Lalbazar	North kolkata	2	2	7	4	13
13	Canal west road	North kolkata	2	1	9	8	14
14	Manicktola	North kolkata	1	3	7	7	24
15	Cossipore	North kolkata	1	2	9	7	20
16	Baruipur	South 24 Parganas	-	1	8	6	10
17	Kolkata Leather Complex	South 24 Parganas	1	1	5	3	12
18	Behala	South 24 Parganas	4	4	10	6	10
19	Budge Budge-I	South 24 Parganas	2	1	4	3	6
20	DumDum	North 24 Parganas	2	1	9	4	6
21	Bidhannagar	North 24 Parganas	3	2	9	5	12
22	Baranagar	North 24 Parganas	1	1	12	4	7
23	Madhyamgram	North 24 Parganas	1	1	8	4	10
24	North Barrackpore	North 24 Parganas	3	1	13	5	13
25	Garifa	North 24 Parganas	1	1	10	5	11
26	Kamarhati	North 24 Parganas	2	-	9	5	9
27	Panihati	North 24 Parganas	1	1	7	4	13
28	Barasat	North 24 Parganas	2	1	10	5	10
29	Howrah	Howrah	11	11	47	38	70

A.4 ESF STRUCTURE OF KOLKATA POLICE (INCLUDING TRAFFIC POLICE)

A.4.1. Head Quarter (at Lalbazar):

Police Control Room in Kolkata: 100 or 2214- 3024 / 3230

Officials	Name	Phone	Email
Commissioner of Police	Shri Anuj Sharma IPS	2214-5060	cp@kolkatapolice.gov.in
Spl Commissioner of Police (I)	Shri Jawed Shamim IPS	2250-5170	splcp1@kolkatapolice.gov.in
Spl Commissioner of Police (II)		2214-5476	splcp2@kolkatapolice.gov.in
Addl Commissioner of Police (I)	Smt. Damayanti Sen IPS	2214-1696	addlcp1@kolkatapolice.gov.in
Addl Commissioner of Police (II)	Shri Supratim Sarkar IPS	2214-1767	addlcp2@kolkatapolice.gov.in
Addl Commissioner of Police (III)	Shri Devendra Prakash Singh IPS	2214-1055	addlcp3@kolkatapolice.gov.in
Addl Commissioner of Police (IV)		2214-5799	addlcp4@kolkatapolice.gov.in
Addl Commissioner of Police (V)		2214-5557	addlcp5@kolkatapolice.gov.in
Jt. Commissioner of Police (HQ)	Shri Subhankar Sinha Sarkar IPS	2250-5207	jtcphq@kolkatapolice.gov.in
Jt. Commissioner of Police (TP)	Shri Pandey Santosh IPS	2214-5558	jtcptp@kolkatapolice.gov.in
Jt Commissioner of Police (PRB)		2283-7671	jtcprb@kolkatapolice.gov.in
Jt Commissioner of Police (Intel)	Sri. Dilip Bandyopadhyay, IPS(Retd.)	2282-5957	jtcpi@kolkatapolice.gov.in

Jt Commissioner of Police (Orgn)	Smt. Neeloo Sherpa (Chakraborty) IPS	2214-1307	jtcpo@kolkatapolice.gov.in
Jt. Commissioner of Police (A)	Shri Ashesh Biswas IPS	2214-1836	jtcpa@kolkatapolice.gov.in
Jt Commissioner of Police (AP)	Shri Akhilesh Kumar Chaturvedi IPS	2409-9151	jtcpap@kolkatapolice.gov.in
Jt. Commissioner of Police (Crime)	Shri Murli Dhar IPS	2214-5737	jtcpcrime@kolkatapolice.gov.in
Jt. Commissioner of Police (STF)		2214-5950	jtcpstf@kolkatapolice.gov.in
Jt Commissioner of Police (Estab)	Sri. Sujay Kr. Chanda, IPS(Retd.)	2214-1354	jtcp.estab@kolkatapolice.gov.in
Jt. Commissioner of Police,SB (Security)	Shri Dip Narayan Goswami IPS	2282-0631	dcsbsecurity@kolkatapolice.gov.in
Deputy Commissioner of Police, Cyber Crime		2214-1853	dccyber@kolkatapolice.gov.in
Deputy Commissioner of Police (II), Detective Department		2214-1516	dcd2@kolkatapolice.gov.in
Deputy Commissioner of Police, STF	Ms. Aparajita Rai, IPS	2250-5164	dcstf@kolkatapolice.gov.in
Deputy Commissioner of Police (Special), Detective Department	Shri Sudeep Sarkar, IPS	2214-1057	dcdspl@kolkatapolice.gov.in
Deputy Commissioner of Police(II), Special Branch	Shri Namroz Ahmed Khan	2282-2090	dcsb2@kolkatapolice.gov.in
Deputy Commissioner of Police(III), Special Branch	Shri Maksud Rahaman Sardar	2282-0031	dc.sb3@kolkatapolice.gov.in
Deputy Commissioner of Police, Wireless Branch		2283-7656	dcwb@kolkatapolice.gov.in
Deputy Commissioner of Police, Enforcement Branch	Shri Biswajit Ghosh IPS	2283- 7700/7800	dceb@kolkatapolice.gov.in
Deputy Commissioner of Police, Reserve Force	Shri Sukhendu Hira IPS	2214-3366	dcrf@kolkatapolice.gov.in
Deputy Commissioner of Police(II), Security Control Organisation	Shri Tenzing Bhutia	2287-5881	dcsco2@kolkatapolice.gov.in
Deputy Commissioner of Police, Traffic Department	Shri Rupesh Kumar, IPS	2214-5403	dctp@kolkatapolice.gov.in
Deputy Commissioner of Police (South), Traffic Department	Shri Arijit Sinha IPS	2499-4703	dctp.south@kolkatapolice.gov.in
Deputy Commissioner of Police (II), Traffic Department	Shri Pradip Kumar Dam	2214-5803	dctp2@kolkatapolice.gov.in
Deputy Commissioner of Police (III), Traffic Department	Shri Chandi Charan Panda	2214-1830	dctp3@kolkatapolice.gov.in
Deputy Commissioner of Police, Home Guard Organisation	Shri Asok Kumar Sarkar	2262- 1671 / 1673	dchg@kolkatapolice.gov.in
Deputy Commissioner of Police, 1st Bn, KAP	Ms Bhavna Gupta IPS	2409-9054	dc1stbnap@kolkatapolice.gov.in
Deputy Commissioner of Police, 2nd Bn, KAP		2557-5050	dc2ndbnap@kolkatapolice.gov.in
Deputy Commissioner of Police, 3rd Bn, KAP	Shri Shrihari Pandey, IPS	2409-9096	dc3rdbnap@kolkatapolice.gov.in
Deputy Commissioner of Police, 4th Bn, KAP	Smt. R.V.Ramya Bharati, IPS	2337-3320	dc4thbnap@kolkatapolice.gov.in
Deputy Commissioner of Police, 5th Bn, KAP	Shri Pankaj Kumar Dwivedi, IPS	2355-9007	dc5thbnap@kolkatapolice.gov.in
Deputy Commissioner of Police,	Shri Kafeel Ahmed	2409-9055	dc6thbnap@kolkatapolice.gov.in

6th Bn, KAP	Hashmi		
Deputy Commissioner of Police, 7th Bn, KAP	Shri Subrata Kumar Paul	2409-9056	dc7thbnap@kolkatapolice.gov.in
Deputy Commissioner of Police, 8th Bn, KAP	Shri Sudipta Nag	2530-0817	dc8thbnap@kolkatapolice.gov.in
Deputy Commissioner of Police, Combat Battalion	Col. Nevendera Singh Paul	2262-5222	dccombat@kolkatapolice.gov.in
Deputy Commissioner of Police, Women Police	Smt. Mangola Biswas	2214-1953	dcwp@kolkatapolice.gov.in
Administrative Officer, KPD	Shri Pratip Kr. Ghosh, WBCS (Exe.)	2214-3059	aokpd@kolkatapolice.gov.in

A.4.2. Kolkata Traffic Police:

**Traffic Control Room: 033 2214 - 3644 /033 2242 - 7248/033 2214 - 1476/1475
Toll Free 1073/+91 9830811111/+91 9830010000 Vodafone 2000 & 2001**

Name/Officials	E-Mail	Phone
Shri Devendra Prakash Singh, IPS Addl. Commissioner of Police (III)	adddlcp3@kolkatapolice.gov.in	+91 33 2214-1055
Shri Pandey Santosh, IPS Jt. Commissioner of Police (TP)	jtcptp@kolkatapolice.gov.in	+91 33 2214-5558
Shri Rupesh Kumar, IPS Dy. Commissioner of Police (I), Traffic Department	dctp@kolkatatrafficpolice.gov.in	+91 33 2214-5403
Shri Arijit Sinha, IPS Dy. Commissioner of Police (South), Traffic Department	dctp.south@kolkatatrafficpolice.gov.in dctp.south@kolkatapolice.gov.in	+91 33 2499-4703 +91 33 2499-4294
Shri Pradip Kumar Dam Dy. Commissioner of Police (II), Traffic Department	dctp2@kolkatatrafficpolice.gov.in	+91 33 2214-5803
Shri Chandi Charan Panda Dy. Commissioner of Police (III), Traffic Department	dctp3@kolkatatrafficpolice.gov.in	+91 33 2214-1830
P.A. to D.C. TP (I)		+91 33 2250-5377
Fatal Squad		+91 33 2214-1490 +91 33 2250-5023 +91 33 2250-5225
Anti Pollution Cell		+91 33 2409-9137
Traffic Computer Cell		+91 33 2214-1048 +91 33 2250-5092
Statistical Section		+91 33 2250-5095 +91 33 2250-5138
Special Raid Section		+91 33 2250-5378 +91 33 2250-5218
Road Marking Section		+91 33 2286-7337
Law Cell		+91 33 2250-5333

Hackney Carriage Branch		+91 33 2409-9025
Public Grievance Cell		+91 33 2250-5412

A.4.3. Divisional Deputy Commissioners of Kolkata Police:

Division	Contact Details
North and North Suburban Division	2360-5650 dcnorth@kolkatapolice.gov.in
Central Division	2228-1403/5210 dcentral@kolkatapolice.gov.in
Eastern Suburban Division	2374-5645 dcesd@kolkatapolice.gov.in
South Division	2281-4000 dcsouth@kolkatapolice.gov.in
Port Division	2439-7174 dcport@kolkatapolice.gov.in
South East Division	2290-4660 dcsoutheast@kolkatapolice.gov.in
South Suburban Division	2499-4711 dc.southsubn@kolkatapolice.gov.in
South West Division	2499-4702 dc.southwest@kolkatapolice.gov.in
East Division	2443-3031 dceastdiv@kolkatapolice.gov.in

A.4.4. List of Local Police Stations in Kolkata City Area:

Police Station	Contact No(s).	Email
Alipore	2479-1021/2408-0100/2479-0028	aliporeps@kolkatapolice.gov.in
Amherst Street	2350-6670/2360-5714 /2360-5100	amherststreetps@kolkatapolice.gov.in
Amherst Street Women	2360-2222	amherststreetps@kolkatapolice.gov.in
Anandapur	2443-5000/2443-8000	ps.anandapur@kolkatapolice.gov.in
Ballygunge	2454-3179 /2454-2100/2475-5931	ballygungeps@kolkatapolice.gov.in
Bansdroni	2410-1022 / 2311-0595	ps.bansdroni@kolkatapolice.gov.in
Behala	2396-7350 / 2397-5050	ps.behala@kolkatapolice.gov.in
Behala Women	2396-7020	ps.behala@kolkatapolice.gov.in
Beliaghata	2350-0970 /2363-1100/2363-3358	beliaghataps@kolkatapolice.gov.in
Beniapukur	2284-4770 /2284-0100/2286-5999	beniapukurps@kolkatapolice.gov.in
Bhowanipur	2455-8092/2454-1100/2486-2711	bhowaniporeps@kolkatapolice.gov.in
Bowbazar	2211-4813 /2215-5100/2211-4814	bowbazarps@kolkatapolice.gov.in
Burrabazar	2268-7554 /2268-0100/2268-3802	burrabazarps@kolkatapolice.gov.in
Burtolla	2555-7599/2533-6100/2533-5579	burtollaps@kolkatapolice.gov.in
Charu Market	2424-9900/2424-5100/2424-5983	charumarketps@kolkatapolice.gov.in
Chetla	2448-6642/2409-9119/2479-0023	chetlaps@kolkatapolice.gov.in
Chitpur	2556-6141/2543-4100 /2532-9086	chitpurps@kolkatapolice.gov.in
Cossipore	2556-6434/2543-2100 /2532-9149	cossiporeps@kolkatapolice.gov.in
Ekbalpur	2449-2135/2409-9100/2449-4167	ekbalporeps@kolkatapolice.gov.in
Entally	2227-5892/2284-8100/2227-6668	entallyps@kolkatapolice.gov.in
Garden Reach	2469-6569/2408-1100/2489-3272	gardenreachps@kolkatapolice.gov.in
Garfa	2418-6949 / 2499-1998	ps.garfa@kolkatapolice.gov.in
Gariahat	2486-3702/2486-3703/ 2461-3667	gariahatps@kolkatapolice.gov.in
Girish Park	2219-8041/2219-9100/2257-1177	girishparkps@kolkatapolice.gov.in
Hare Street	2211-8760/2215-0100/2211-8761	harestreetps@kolkatapolice.gov.in
Haridevpur	2403-4040 / 2409-8213	ps.haridevpur@kolkatapolice.gov.in
Hastings	2223-0716/2243-0100/2223-4548	hastingsps@kolkatapolice.gov.in
Jadavpur	2473-0146 / 2499-4580	ps.jadavpur@kolkatapolice.gov.in
Jorabagan	2218-4094/2270-0100 /2270-0428	jorabaganps@kolkatapolice.gov.in
Jorasanko	2269-7279/2218-0100/2268-3076	jorasankops@kolkatapolice.gov.in
Kalighat	2454-0177/2455-0100/2486-2618	kalighatps@kolkatapolice.gov.in
Karaya	2287-1715/2281-1100/2289-3825	karayaps@kolkatapolice.gov.in
Karaya Women	2287-0072	karayaps@kolkatapolice.gov.in
Kasba	2442-0164 / 2441-8500	ps.kasba@kolkatapolice.gov.in
Kolkata Leather Complex	76030-32712	ps.lthercomplx@kolkatapolice.gov.in
Lake	2429-2353/2409-7100/2429-6294	lakeps@kolkatapolice.gov.in
Maidan	2223-2462/2248-0100/2223-4551	maidanps@kolkatapolice.gov.in
Manicktala	2360-5681/2360-6100/2360-8126	manicktalaps@kolkatapolice.gov.in
Metiabruz	2469-5317 / 2409-9179	ps.metiabruz@kolkatapolice.gov.in
Muchipara	2227-8430/2283-7100/2227-6445	muchiparaps@kolkatapolice.gov.in
Nadial	2489-4079 / 2409-9172	ps.nadial@kolkatapolice.gov.in
Narkeldanga	2360-5710/2352-0100/2360-8187	narkeldangaps@kolkatapolice.gov.in
Netaji Nagar	2421-8056/2421-8057	ps.netajingr@kolkatapolice.gov.in
New Alipore	2400-2943/2409-5100/2400-8745	newaliporeps@kolkatapolice.gov.in
New Market	2217-7397/2283-6100/2227-6436	newmarketps@kolkatapolice.gov.in
North Port	2243-1183/2243-1100/2231-8361	northportps@kolkatapolice.gov.in
Panchasayar	2432-6001/2432-6011	ps.panchasayar@kolkatapolice.gov.in
Park Street	2226-8321/2283-2100/2227-6437	parkstreetps@kolkatapolice.gov.in
Parnashree	2488-7172 / 2409-8212	ps.parnashree@kolkatapolice.gov.in
Patuli	2462-5195 / 4122	ps.patuli@kolkatapolice.gov.in
Patuli Women	2462-0251	ps.patuli@kolkatapolice.gov.in
Phoolbagan	2320-0920/2321-5100/2320-0585	phoolbaganps@kolkatapolice.gov.in
Posta	2259-5606/2259-1100/2259-5536	postaps@kolkatapolice.gov.in
Pragati Maidan	2285-0500 / 2285-1507	ps.pragatimdn@kolkatapolice.gov.in

Purba Jadavpur	2426-7345 / 2416-6203	ps.pjadavpur@kolkatapolice.gov.in
Rabindra Sarobar	2463-0030 / 31 / 32	rabindrasarobar@kolkatapolice.gov.in
Rajabagan	2409-9175 / 9176	ps.rajabagan@kolkatapolice.gov.in
Regent Park	2381-3162 / 2311-0592	ps.regentpark@kolkatapolice.gov.in
Sarsuna	2452-1630/2452-0130	ps.sarsuna@kolkatapolice.gov.in
Shakespeare Sarani	2281-2541/2281-7100/2289-3693	spsaranips@kolkatapolice.gov.in
Shyampukur	2555-7585/2533-2100 /2533-5606	shyampukurps@kolkatapolice.gov.in
Sinthee	2532-5383/2530-0853 /2532-9072	sinthips@kolkatapolice.gov.in
South Port	2459-3226/2409-4100/2459-8818	southportps@kolkatapolice.gov.in
Survey Park	2416-5686 / 5542	ps.surveypark@kolkatapolice.gov.in
Tala	2530-0850/ 2546-4901/2532-9087	talaps@kolkatapolice.gov.in
Taltala	2227-7784/ 2284-4100/2227-6491	taltalaps@kolkatapolice.gov.in
Taltala Women	2283-7575	taltalaps@kolkatapolice.gov.in
Tangra	2329-6769/ 2283-1100/2329-7565	tangraps@kolkatapolice.gov.in
Taratala	2401-1881/2409-2100/2401-2796	taratalaps@kolkatapolice.gov.in
Thakurpukur	2497-6680 / 2461-6004	ps.takurpukur@kolkatapolice.gov.in
Tiljala	2343-4693 / 2345-2827	ps.tiljala@kolkatapolice.gov.in
Tollygunge	2464-2765/2465-4100/2463-2803	tollygungeps@kolkatapolice.gov.in
Tollygunge Women	2464-0003	tollygungeps@kolkatapolice.gov.in
Topsia	2281-4268/2280-4100/2289-3682	topsiaps@kolkatapolice.gov.in
Ultadanga	2356-6263/2356-6264/2356-6444	ultadangaps@kolkatapolice.gov.in
Ultadanga Women	2356-2218	ultadangaps@kolkatapolice.gov.in
Watgunge	2459-3298/2408-2100/2459-8819	watgungeps@kolkatapolice.gov.in
Watgunge Women	2489-2100	watgungeps@kolkatapolice.gov.in
West Port	2439-3617/2409-6100/2439-2454	westportps@kolkatapolice.gov.in

A.4.5. Contact Details DMG, Kolkata Police

A.4.5.1 Contact Details of the Key Officials of DMG, Kolkata Police

Sl.No	Name / Designation	Phone No.
1	Name:- Col. Nevendera Singh Designation :- DC Combat Bn	2262 – 5222 80012 - 00650
2	Name:- Sri Md. E. Haque Designation:- AC, SF (III)	2262 - 1509 98303 - 15410
3	Name – Kankan Roy Designation – O/C, DMG	2262 - 3627 9830108651
4	Name – Dipta Roy Designation – Sergeant - DMG	8420039694
5	Name – Kaushik Sarkar Designation – Sergeant - DMG	8017989576
6	Name – Apurba Baidya Designation – Subedar	7278917703
7	Name – Nilendu Prasad Chaudhury	9433213427

	Designation – A/ASI - 13194	
8	Name – Harun Al- Rashid Designation – A/ASI - 13904	8336020087 8585042431
9	Name – Paritosh Adhikary Designation – ASI - 15082	76860 01465
10	Name – Nitai Adhikari Designation – ASI - 16151	9564324255
11	Name – Dibakar Roy Designation – ASI - 16511	9163900615
12	Name – Sanjay Das Designation – ASI - 16913	9830138104
13	Name – Prasenjit Ghosh Designation – ASI - 17032	9883855851

A.4.5.2 Field Offices

Sl No	Location	Postal Address	Phone / Fax
1	Police Training School	Disaster Management Group Office, Police Training School, 247, A.J.C, Bose Road, Kolkata - 700027	Ph - 033-22623627 CTX - 2731 Ph - 033-22625331
2	Control Room, Lalbazar Kolkata Police	18, Lalbazar Street, Kolkata - 700001	Ph - 033-22143230 Fax -033-22145512

A.4.5.3 List of the Tree- Cutting Team of DMG, KP Officers

OFFICERS

SL.NO	RANK	NAME	POSTING	MOBILE NO
1	SUBEDAR	APURBA BAIDYA	3 RD BN	7278917703

HOME GUARDS

SL.NO	ID No	NAME	POSTING	MOBILE NO
1	P0521	JULFIKAR MONDAL	P.D	9153694131
2	P0523	SANJAY BISWAS	P.D	9143414906
3	P0525	SUROJIT GUPTI	P.D	8697010183
4	P0526	HARIDAS MONDAL	P.D	7699347558
5	P0527	PARTHA PURAKAIT	P.D	8016310138
6	P0528	DEBASIS NAIYA	P.D	8926426801
7	P0530	SANTOSH RAM	P.D	9804743336
8	P0531	BHAJAN MONDAL	P.D	9647644934
9	P0535	SANJAY HALDAR	P.D	8013570664
10	PO733	SUSANTA HALDAR	P.D	9836135396
11	PO906	AMRESH CHOUDHRY	P.D	8981327913
12	NO901	PROBIR SHIL	N.D	9883107212
13	EO253	RAJ MALLIK	E.S.D	9874482075
14	EO893	TARUN MUKHERJEE	E.S.D	9932962747
15	EO2799	ADITYA DAS	E.S.D	9734368557

CIVIC VOLUNTEERS

SL.NO	NAME	POSTING	MOBILE NO
1	AMIT ROY BARMAN	SEALDAH TPG	7278131500
2	DEO KUMAR RAM	SEALDAH TPG	9903023776
3	DIPU MUNDA	EAST TPG	8013165716
4	JOHN.CH. RAHA ROY	SEALDAH TPG	8620884844
5	KASI MANNA	BHOWANIPUR TPG	9831511627
6	MANOJ KUMAR SAMANTA	ULTADANGA TPG	8013063767
7	MD.SHYEEM	SOUTH TPG	9748935079
8	NALU MONDOL	HQ TPG	9748444374
9	PALASH CHAUDHURY	EAST TPG	9748971193
10	PROSENJIT BANNERJEE	SEALDAH TPG	9836434078

11	RAJU ROY	SEALDAH TPG	9062879381
12	SAHADEB MONDOL	EAST TPG	9831668753
13	SANJU BAHADUR CHETTRI	TOLLY GUNJ TPG	8013302728
14	SARFARAZ HUSSAIN	BHOWANIPUR TPG	9883633491
15	SUMAN ROY	BHOWANIPUR TPG	7449715665
16	SUROJIT CHAKRABORTI	D.M.G/P.T.S	9231443603
17	SHYAMAL SARDAR	D.M.G/P.T.S	9836542272
18	SUJAN BANERJEE	D.M.G/P.T.S	8017947737
19	AVISHEK PANDEY	D.M.G/P.T.S	9674173214
20	GOPAL DAS	D.M.G/P.T.S	8981707978
21	SANJIV DAS	D.M.G/P.T.S	9007145649
22	SUSHANTA GHORUI	D.M.G/P.T.S	9038607960
23	DEBNATH SINGH	D.M.G/P.T.S	8981814578
24	UTTAM MONDAL	D.M.G/P.T.S	9775629971
25	GOBINDA PARAMANIK	D.M.G/P.T.S	9333807171

A.4.5.4 Disaster Management Group, Kolkata Police Quick Response Team (QRT) – Water Wing

(1st Team)

Sl.No	Name / Designation /Office Address /Residential Address	Phone No
1	<p><u>Team Leader</u></p> <p>Name – Paritosh Adhikary</p> <p>Designation - ASI – 15082</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – 124, DH Road, Govt. Housing Paschim Barisha, Kol - 63</p> <p>West Bengal</p>	9831650274
2	<p><u>Alternate Team Leader</u></p>	9477558340

	<p>Name – Jitendra Narjinary</p> <p>Designation - Sepoy – 15019</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Changmary, P.O- Hemangri, P.S – Kumargram,</p> <p>Dist- Jalpaiguri, Pin – 736203, West Bengal</p>	
3	<p>Name – Subhojit Mukherjee</p> <p>Designation - Sepoy – 2408</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – 13/E, Sanyal Lane, P.S + P.S = Srirampur, Pin – 712201, Dist- Hooghly</p>	9836762284
4	<p>Name – Enamul Hoque Sarder</p> <p>Designation - Sepoy – 19767</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Tala, P.O- Sangrampur Hat, P.S – Usthi,</p> <p>Dist – 24 Parganas(S), Pin – 743355, West Bengal</p>	9007841744
5	<p>Name - Biswanath Sardar</p> <p>Designation - Sepoy – 1167</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill+P.O- Kanduah, P.S – Sankrail,</p> <p>Dist – Howrah, Pin – 711302, West Bengal</p>	9007050858
6	<p>Name - Rajkumar Sardar</p> <p>Designation - Sepoy – 1176</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Tapukar, P.O- Hofaro, P.S – Magrahati,</p> <p>Dist – 24 Parganas(S), West Bengal</p>	9874041851
7	<p>Name – Mintu Pal</p>	9804964476

	<p>Designation - Sepoy – 2623</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- 1681, Arvinda pally, P.O- Konnagar, P.S – Uttarpara,</p> <p>Dist – Hooghly, Pin – 712234, West Bengal</p>	
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(2nd Team)

Sl.No	Name / Designation /Office Address /Residential Address	Phone No
1	<p><u>Team Leader</u></p> <p>Name – Harun Al- Rashid</p> <p>Designation – Ar/ASI - 13904</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – RHE – 396/D, NSC Bose Road, Block – L/06 Baishnab ghata Govt. Housing, Kolkata – 47, West Bengal</p>	8336020087
2	<p><u>Alternate Team Leader</u></p> <p>Name – Pratul Ch. Roy</p> <p>Designation - Sepoy – 15150</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill-Madhya Khattimari, P.O+P.S- Dakhin Khattimari, Dist- Jalpaiguri, Pin-735210, West Bengal</p>	9836424320
3	<p>Name – Sukhdhan Roy</p> <p>Designation - Sepoy – 15123</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill + P.O- Dawaguri, P.S – Kotwali, Dist – CoochBihar , West Bengal</p>	8017831173
4	<p>Name – Ranjit Hazra</p>	8116984144

	<p>Designation - Sepoy – 975</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill+P.O- Nowpara, P.S- Amta, Dist – Howrah,</p> <p>Pin – 711401, West Bengal</p>	
5	<p>Name – Ram Krishna Kayal</p> <p>Designation - Sepoy – 1019</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Chhawnapur, P.O- Khurigachi, P.S – shyampur,</p> <p>Dist- Howrah, West Bengal</p>	9143076725
6	<p>Name – Dilip Das</p> <p>Designation - Sepoy – 1433</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Pararpur, P.O- Tapsikhal, P.S- Alipurduar,</p> <p>Dist- Jalpaiguri, Pin- 736121, West Bengal</p>	9231900686
7	<p>Name – Rajib Debnath</p> <p>Designation - Sepoy – 2533</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill+P.O Kushbasan, P.S – Narayangarh,</p> <p>Dist- Midnapur (W), Pin – 721445, West Bengal</p>	8609018714

(3rd Team)

Sl.No	Name / Designation /Office Address /Residential Address	Phone No
1	<p><u>Team Leader</u></p> <p>Name – Dibakar Roy</p>	9163900615

	<p>Designation – ASI - 16511</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – BABA LOKENATH APPARTMENT (1st floor), flat no. C, 2521, Baidya Sagar Sarani, Kolkata -63, West Bengal</p>	
2	<p><u>Alternate Team Leader</u></p> <p>Name – Dulal Sarkar</p> <p>Designation - Sepoy – 1245</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Kandipara, P.O- Kachua, P.S- Kotwali, Dist- Jalpaiguri, Pin- 735122, West Bengal</p>	8100699360
3	<p>Name – Subodh Ch. Roy</p> <p>Designation - Sepoy – 16995</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill+P.O- Hati Dhirra, P.S- Kotwali, Dist- Cooch Bihar, West Bengal</p>	7551805441
4	<p>Name – Laltu Kr. Nandy</p> <p>Designation - Sepoy – 19678</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Gandharbapur, P.O- Khantura, P.S- Habra, Dist- 24 Parganas (N), West Bengal</p>	8906238845
5	<p>Name – Bijoy Bir</p> <p>Designation - Sepoy – 824</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – 36/A, Mansi Pukur Road, Kolkata- 700067, West Bengal</p>	8013073531
6	<p>Name – Afjal Hossain</p> <p>Designation - Sepoy – 1158</p>	9432803818

	Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – Vill- Laxmipur, P.O- Chak sukhdebpur, Dakshin Dinajpur, Pin- 733142, West Bengal	
7	Name – Bablu Roy Designation - Sepoy – 1062 Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – Vill + PO – Mondal Ghat, PS – Kotwali, Dist – Jalpaiguri PIN – 735139, West Bengal	9432803811

A.4.5.5 Disaster Management Group, Kolkata Police Quick Response Team (QRT) – C.S.S.R Team

(1st Team)

Sl.No	Name / Designation /Office Address /Residential Address	Phone No
1	<u>Team Leader</u> Name – Sanjay Das Designation – ASI - 16913 Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – ODRC Police Quarter, Block No. S/C-3, Dimond Harbour Road, Kolkata: 700038, West Bengal	9830138104
2	<u>Alternate Team Leader</u> Name – Aminul Islam Designation - Sepoy – 8326 Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – Vill – Majdiha, PO – Bangalabari, PS – Hemtabad, Dist- Uttar Dinajpur	9647790021
3	Name – Ashoke Mondal	8820731441

	<p>Designation – Sepoy/AF – 16827</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Poleghat, PO – Dakhin Jagadal, PS – Sonarpur, Dist – South 24 Pargana, PIN - 700151</p>	
4	<p>Name – Kali Shankar Ghosh</p> <p>Designation - Sepoy – 1087</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – 272, Sarder para, P.O-Prashasth, P.S- Domjur, Dist- Howrah, West Bengal</p>	9804927094
5	<p>Name – Manik Layek</p> <p>Designation - Sepoy – 1739</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Belghoria Police Housing Estate, Block- K- 4/14, Kolkata- 700056, West Bengal</p>	9830964911
6	<p>Name – Krishnanu Maity</p> <p>Designation - Sepoy – 2477</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Talla, P.O- Haria, P.S- Khajurai, Pin-721430, West Bengal</p>	8585042766
7	<p>Name – Michal Bramha</p> <p>Designation - Sepoy – 2710</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Salua, E.F.R. 2nd Bldg.P.O- Salua, P.S- Kharagpur, Dist – West Midnapur, West Bengal</p>	9932251982

(2nd Team)

Sl.No	Name / Designation /Office Address /Residential Address	Phone No
1	<p><u>Team Leader</u></p> <p>Name – Nilendu Prasad Choudhury</p> <p>Designation – Ar/ASI - 13194</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – 124, DH Road, Govt. Housing Paschim Barisha, Flat No – 04 – 8, Kolkata – 63, West Bengal</p>	9433213427
2	<p><u>Alternate Team Leader</u></p> <p>Name – Pallab Haldar</p> <p>Designation - Sepoy – 18868</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill +PO-Dhekuntal, P.S- Ulberia, Dist- Howrah, West Bengal</p>	9143669014
3	<p>Name – Md. Zohur Ali</p> <p>Designation – Sepoy/AF – 16874</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill+P.O- Shahpur, PS – Bharatpur, Dist- Murshidabad, Pin-742301, West Bengal</p>	7074826054
4	<p>Name – Pranay Kr Ghosh</p> <p>Designation - Sepoy – 3047</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Mohaspur, P.O- Notun Balrampur, P.S- Sanamakhi, Dist- Bankura, West Bengal</p>	6290747774
5	<p>Name – Bishnu Barman</p> <p>Designation - Sepoy –17958</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p>	6289765604

	Residential Add – Vill – Sarda pally, PO – Kadamtala, PS – Matigara, Dist - Darjeeling, West Bengal	
6	Name – Dhananjay Barman Designation – Sepoy/AF – 16477 Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – Vill – Sahnai, PO- Joypur, PS- Gangarampur, Dist – Dakhin Dinajpur, PIN – 733142, West Bengal	7407922966
7	Name – Nilay Mondal Designation – Sepoy/AF – 16451 Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – Vill – Baganpara, PO – Dahapara, PS- Jiagunj, Dist – Murshidabad, PIN -742104, West Bengal	8250124004

(3rd Team)

Sl.No	Name / Designation /Office Address /Residential Address	Phone No
1	<u>Team Leader</u> Name – Nitai Adhikary Designation – ASI - 16151 Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – Vill- Goalara, P.O + PS - Khatranga, Dist- Paschim Midnapur, PIN – 721301, West Bengal	9564324255
2	<u>Alternate Team Leader</u> Name – Sumon Chatterjee Designation - Sepoy – 18244 Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – Vill- Saradapally, P.O- Kadamtala, P.S- Maligara, Dist- Bankura, West Bengal	8016790476
3	Name – Samir Bhowmick	9564780755

	<p>Designation - Sepoy – 19859</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill+P.O- Kulgachi, P.S- Kotwali, Dist- Nadia, West Bengal</p>	
4	<p>Name – Muklesur Rahman</p> <p>Designation - Sepoy – 8231</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill – Bansthupi, PO + PS – Itahar, Dist – Uttar Dinajpur, PIN - 733128 West Bengal</p>	9875402126
5	<p>Name – Rafikul Islam</p> <p>Designation – Sepoy/AF – 16623</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill-Dhulahar, PO – Hatgachi, PS- Itahar, Dist- Uttar Dinajpur, PIN – 733143, West Bengal</p>	9635919565
6	<p>Name – Sk. Anwar Hossain</p> <p>Designation - Sepoy – 1767</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Uttar Kalash, P.O- Kalash, P.S- Magrahat, Dist- 24 Parganas (N), West Bengal</p>	8481012170
7	<p>Name – Sk. Ziaul Kerim</p> <p>Designation - Sepoy – 2394</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Kalona, P.O- Bhalugram, P.S- Mangalkot, Dist- Burwan, Pin- 713143, West Bengal</p>	9874433387

(4th Team)

Sl.No	Name / Designation /Office Address /Residential Address	Phone No
1	<u>Team Leader</u>	9883855851

	<p>Name – Prasenjit Ghosh</p> <p>Designation – ASI - 17032</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Garfa, Baidyapara, PO – Haltu, PS – Garfa, Kolkata – 78 West Bengal</p>	
2	<p><u>Alternate Team Leader</u></p> <p>Name – Sk Saddam Hossain</p> <p>Designation – Sepoy/AF – 16579</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- purushottampur, PO – Churamar, PS- ITahar, Dist – Uttar Dinajpur, PIN – 733128, West Bengal</p>	7003107781
3	<p>Name – Asoke Dara</p> <p>Designation - Sepoy – 514</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Gonua, PO – Reripur, PS- Narayangarh, Dist – Midnapur, West Bengal</p>	6290184523
4	<p>Name – Sanat Mondal</p> <p>Designation - Sepoy – 4619</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill + PO - Mayohowri, PS – Joynagar, Dist- 24 pgs South Pin – 743337, West Bengal</p>	7003845034
5	<p>Name – Sentu Roy</p> <p>Designation - Sepoy – 1334</p> <p>Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27</p> <p>Residential Add – Vill- Srakarpur, P.O- Mundafal, P.S- Kaliagunj, Dist- Uttar Dinajpur, West Bengal</p>	9681224741

6	Name – Md. Dilwar Hossain Designation - Sepoy – 1969 Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – Humaipur, P.O- Abdolpur, P.S- Barasat, Dist- 24 Parganas (N), West Bengal	9007730491
7	Name – Dilip Soren Designation - Sepoy – 2930 Office Add – 247, A.J.C.Bose Road, Police Training School, Kolkata - 27 Residential Add – Vill- Karanjberia, PO- Siyada, PS- Kashipur, Dist- Purulia, PIN - 723121, West Bengal	9007712915

A.5. ESF STRUCTURE OF NATIONAL DISASTER RESPONSE FORCE (N.D.R.F)

2 Bn NDRF Unit Control Room: 033-25875032/ 09474061104 / 09474116775

List of Officials and Contact Nos. (2 Bn NDRF – Haringhata Farm, near RRI, P.O-Mohanpur, Nadia)

Name of Officer	Designation	Mobile no.	Office Contact
Shri Nishith Upadhyay	Commandant	9434742836	2526-3607
Shri Rajesh Negi	Second-in-Command	9474050421	2587-6620
Shri Kumar Ravi	Dy. Comdt.	8017166655	-
Shri Vijay Singh	Dy. Comdt.	9434742866	-
Shri Yogesh Singh Sengar	Dy. Comdt.	9474021815	-
Exchange 2 Bn NDRF	-	-	2587-5544
Emergency Operation Centre	-	9474061104	2587-5032

List of Manpower	
Inspector	1
Sub Inspector	3
SI(Engineers)	2
SI/Comm	1
HC(Comm)	1
HC/GD	4
HC/Elect	1
HC/Tech	1

CT/GD	27
HC/Paramedics	2
Vehicle Divers	3
Follower	1
Total	47

A.5.1 Contact details OF RRC Koikhali, Kolkata:

03 Teams of this unit along with Disaster Management Equipment deployed at RRC location Koikhali, Rajarhat, Kolkata.

Name of Officer/ Staff	Designation	Mobile no.	Office Contact
Coy Commander	Asstt. Commandant	9474053832	2573-7080
Team Commander	Inspector	9474053882	
Team Commander	Inspector	9474054898	
Team Commander	Inspector	9474194475	
Team Commander	Inspector	9452627462	

Total 18 teams x 47 per team = 846 personnel and 12 teams can be deployed at a time within 02(two) hrs depending upon distance after getting warning order for any disaster

A.6 ESF STRUCTURE OF METRO RAIL, KOLKATA

A.6.1. Hierarchy of Departmental Officers Who Will Take Important Roles in Disaster Management in Metro Railway

Sl. No.	Name	Designation	Phone No.
1	Shri. Satyaki Nath.	PCOM	9007041900
2	Shri. H.N. Jaiswal	PCE	9007041200
3	Shri. S.P.S.Chauhan.	PCSTE	9007041800
4	Shri. A.K. Majumdar	PCEE	9007041300
5	Shri. Dr. M.K. Choudhury	CMS	9007041500
6	Shri. Amresh Kumar	DIG/CSC	6289654700
7	Shri. S. Halder	Dy.CSTE(M)	9007041802
8	Shri. R.K. Chowdhury	Dy.CEE / RS / NOA	9007041306
9	Shri. Manoj K. Satpathy	Sr.DEN	9007041202
10	Shri. M.Suresh.	Sr.SC/RPF	9007041750
11	Smt. Indrani Banerjee.	CPRO	9007041906

A.6.2. Disaster Management Organization in Metro Railway, Kolkata

Chairman & Coordinator	Shri. Manoj K.Satpathy	(Sr.DEN)	9007041202
	(In avsence of V.G.Shamkule)	Dy.COM(Safety)	9007041903
Members:		Sr.SC (RPF)	9007041750
		Dy.CSTE(M)	9007041802
		Dy.CEE / RS / NOA	9007041306
		Sr.DEN	9007041202
		Sr.DMO (Adam.)	9007041503

	ASC (Fire)	9007041928
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A.7 ESF STRUCTURE OF C.E.S.C. Ltd.

Emergency Contact details of CESC Ltd

Sl. No.	Position details	Contact Nos.	Location
1a	Sr. Control Engineer	033-22368354	Control Room CESC House, 1, Chowringhee Square, Kolkata-700001
1b	HT Consumer Desk	033-2225-9156 033-2225-9157	
2	HT Engineers Desk	033-2248-1481/82 033-2248-3107	HT Command Station BBD Bag Substation 34/1, B. B. D. Bag Kolkata-700001
3	LT Engineers Desk	8584820327 9163398839	LT Fault Management Centre, BBD Bag Substation, 34/1, B. B. D. Bag, Kolkata-700001
4	Call Centre	1912 44031912 18605001912	

A.8 Contact Details of Department of Disaster Management and Civil Defence

Control Room: 1070 (Toll free)
2214-3526/ 2253-5185
2214-1378 (Fax)

Sl. No.	Designation	Mobile Number	Land Number
1	Joint Secretary and Nodal officer		2214-3526/ 22501004

A.9 Contact Details of Health and Family Welfare Department

Additional Chief Secretary	2357-5899, Fax:2357-7907
Commissioner of Family Welfare & State Mission Director (NRHM)	2357-3625, Fax:2357-7909
Project Director (WBSAPCS)	2357-9278, Fax:2357-2222
Director of Health Services	2357-7903, Fax:2357-7904
Director of Medical Education	2357-5101, Fax:2357-7938
Spl. Secretary (MA)	2357-4455
Spl. Secretary (GA)	2357-3636
Spl. Secretary (MES & MERT)	2357-4061
Jt. Secretary (FW & NRHM)	2357-7928

Jt. Secretary (Ayush & Vigilance)	2357-5566
Jt. Secretary (MS)	2357-3533
Secretary (IT)	40340417
Jt. Secretary (MES & MERT)	2357-0278
Jt. Secretary (LAW)	2357-4007
Jt. Secretary (MA)	2357-7935
Executive Director (State Health & Family Welfare Samity)	2357-7901
Addl. DHS (TB)	2357-4021
Addl. DHS (Admin)	23330-266
Addl. DHS (AA & V)	2357-7925
Director (SBHI)	2357-4024, Fax:2357-5893
SFWO & Jt. DHS (FW)	2357-3680, Fax:2357-7945
Jt. DHS (Planning & Development)	2357-7946
Jt. DHS (PH & CD)	2357-1192
Jt. DHS (Leprosy)	2357-7941
SMEIO & Jt. DHS	2357-7945
Jt. DHS (Accounts)	2357-7912
DDHS (Admin)	2357-7937
DDHS (Nursing)	2357-4025
DD (MIES)	2357-3657
Director (Ayurveda)	2357-4079
Director (Homoeopathy)	2357-7943
ADHS (Ophthalmology)	2357-4074
Controller of Finance & Jt. Director	2357-2422
Nodal officer Disaster Management (Dr. Nimai Chandra Mondal, Assistant Director Health services (ECNCES)	9126504161

A.10 RESORCE INVENTORY OF KMC

A.10.1 List of Urban Primary Health Centres, Maternity Homes and Dispensaries of KMC

SL. No.	Borough	Ward	Address
1	1	UPHC-1	1-B Gopal Chatterje Road, Kolkata -700002
2	1	UPHC-2	126, Kali Charan Ghosh Road, Phoara More
3	1	UPHC-3	Paikpara 1St Row, 21 Raja Manindra Road, Kolkata- 700037
4	1	UPHC-4	26/59, Dumdum Road, Kolkata-700002
5	1	UPHC-5	The Crossing of Indra Biswas Road & Tarasankar Sarani, Kolkata-700037 (Near Tala PS)
6	1	UPHC-6	3,Gopal Mukherjee Road
7	1	UPHC-7	78/4, Bagbazar Street, Kolkata -700003
8	1	UPHC-8	56/1, Raja Raj- Ballav Street, Kolkata-700003
9	1	UPHC-9	5A, Raja Nava Krishna Street, Kolkata-700005
10	2	UPHC-10	18, Bhupen Bose Avenue, Kolkata-04
11	2	UPHC-11	160, Aurobinda Sarani, Kolkata-6, (Hatibagan Dispensary)

12	2	UPHC-12	2/C, Nilambar Mukherjee Street, Kolkata-06
13	2	UPHC-15	82 Raja Dinendra street, Kolkata-06
14	2	UPHC-16	19A, goabagan Street, kolkata-06
15	2	UPHC-17	22, Nilmoni Mitra Street, Kolkata-06
16	2	North Maternity Home	22, Nilmoni Mitra Street, Kolkata-06
17	2	UPHC-18	21/1 Masjid Bari Street, Kolkata-06
18	2	UPHC-19	11/A, Nather Bagan street, Kolkata-05
19	2	UPHC-20	20/1B, Brindaban Basak Street, Kolkata-05
20	3	UPHC-13	17, Ultadanga Main Road, Kolkata-67
21	3	UPHC-14	123, ultadanga main Road, Kolkata-67
22	3	UPHC-29	40 Canal East road, Kolkata-11
23	3	UPHC-30	11 B.J.N.T.P. Lane, Kolkata -11
24	3	Narkeldanga DISP	109, Narkeldanga Main Road, Kolkata-54
25	3	Maniktala Chest Clinic	34, UC Banerjee Road, Kolkata-54
26	3	UPHC-31	P-19 CIT Road, near Phulbagan Bata Crossing
27	3	UPHC-32	105, Satin sen Sarani, Kolkata-54
28	3	UPHC-33	CIT Road and Hemchandra Naskar Road Sarani Crossing, near Nandi House, Beliaghata, kolkata-10
29	3	UPHC-34	13, Kalitara Bose Lane, kolkata-10
30	3	UPHC-35	94, K.G Bose Sarani, Kolkata-85
31	4	UPHC-21	26 Joraban Street, Kolkta-06
32	4	Strand Bank Chest Clinic	P66/1/2, Strand Bank Road Kol-6
33	4	UPHC-22	21, Maharshi Debendra Road. Kolkata-700007
34	4	UPHC-23	3, Raja Brojendra Narayan Street. Kolkata-700007
35	4	UPHC-24	24/1, Nimtalaghat Street. Kolkata-700006.
36	4	UPHC-25	9A, Baranashi ghosh Lane. Kolkata-700006
37	4	UPHC-26	171, Ramesh Dutta Street, Kolkata-700006
38	4	UPHC-27	36/A, Modan Mitra Lane. Kolkata-700006.
39	4	Dental and ENT Clinic	26/1, Beadon Street, Kolkata-700006
40	4	UPHC-28	28, Sadhana Sarkar Udyan, 294/2 APC Road, Kolkata-700009
41	4	UpHC-38	5, Fakir Chand Mitra Street. Kolkata-700009
42	4	UPHC-39	4, Marcus Square. Kolkata-700007
43	5	UPHC-36	10 HARSHI STREET, 2nd Floor, KOL - 9
44	5	Nafar Kolay Dispensary	7, NAFAR KOLEY ROAD . KOL - 15
45	5	UPHC-37	97, BAITHAK KHANA ROAD. IST FLOOR KOL - 9
46	5	UPHC-40	27,SURYA SEN STREET. KOL - 12
47	5	UPHC-41	25, Balmukunda Macker Road, Kol-7
48	5	UPHC-42	Opp111, N.S Road, under Fly Over, Kol-1
49	5	UPHC-43	12B, Mahatma Gandhi Road, kol-7

50	5	UPHC-44	4, Nil Madhab sen Street, Kol-73
51	5	UPHC-45	OPPO. 18, WOOD MOUNT STREET. (UNDER HOWRAH BRIDGE APPROACH FLYOVER.) KOL - 1
52	5	UPHC-48	4/1D MADAN DUTTA LANE.(FULBAGAN BUSTEE) KOL - 12
53	5	UPHC-49	27/1 SASHI BHUSAN DEY STREET. KOL - 9
54	5	UPHC-50	Santosh Mitra square, Kol-12
55	6	UPHC-46	133/1, S.N Banerjee Road, Kol-13
56	6	Central Dispensary	5, S. N. Banerjee Road, Kol - 700 012
57	6	UPHC-47	16, Jadunath Dey Road, Kol - 700 012
58	6	UPHC-51	15, Raja Subodh Mullick Square, Kol - 700 012
59	6	UPHC-52	47, Collin Street, Kol 700 016
60	6	UPHC-53	32, Doctor Lane. Kol -14
61	6	UPHC-54	3, Girish Chandra Bose Road, Kol - 700 014
62	6	Malaria Clinic	P-65 Dr. Sundari Mohan Avenue, Kol - 14
63	6	UPHC-60	Ladies Park, Dr. Sundari Mohan Avenue, Kol - 14
64	6	UPHC-61	42, Jannagar Road, Kol- 700 017
65	6	UPHC-55	6, Bechulal Road, kol-14
66	7	UPHC-59	6, Mahendra Chatterjee Lane, Kol-46
67	7	UPHC-62	21, Haji Md. Mohsin Square, Kol - 700 016
68	7	UPHC-63	9/1, A.J.C. BOSE ROAD, KOLKATA - 17
69	7	UPHC-64	26, DILKHUSA ST., KOLKATA- 17
70	7	UPHC-65	9B, TILJALA SHIBTALA LANE, KOLKATA - 39
71	7	UPHC-56	21/1, R.N.C. ROAD, KOLKATA - 15
72	7	UPHC-57	48K, D.C.DEY ROAD, KOLKATA - 15
73	7	WHU-58	12, G.K. ROAD, KOLKATA - 46
74	7	UPHC-58	2, DHAPA ROAD, KOLKATA -
75	7	Champamani Maternity Home	59, CHRISTOPHER ROAD, KOLKATA - 46
76	7	Gobra Dispensary	59, CHRISTOPHER ROAD, KOLKATA - 46
77	7	Tangra Chest Clinic	15/1 Hughes Road
78	8	UPHC-66	38, SRIDHAR ROY ROAD, KOLKATA - 39
79	8	UPHC-67	13A, SWINHOE LANE,KOL - 42
80	8	UPHC-68	175/2, Rashbehari Avenue, Kol-700019
81	8	UPHC-69	36, Ballygunge Circular Road, Kol-700019
82	8	UPHC-70	Chakraberia Rd.(North)(Triangular park) Kol-700020
83	8	UPHC-83	240, Kalighat Road, Kol-700026
84	8	UPHC-84	7, Nakuleshwar Bhattacharya lane, Kol-700026
85	8	UPHC-85	3A, Dover Terrace,Kol-700019
86	8	UPHC-86	Jatin Bagchi Road,(7 Lake Camp) Vivekananda Park, Kol-700029
87	8	UPHC-87	Southern Avenue & Lake Palace Crossing, (on Boulevard) Kol-700029
88	8	UPHC-88	102/1,Tollygunge Road, Kol-700026

89	8	UPHC-90	Meghnad Saha Sarani (Southern Avenue), Kol-29
90	9	Ward 69 Dispensary	Opp Quest mall/ besides KMCP School), 9 Ahiripukur Road, Kol-19
91	9	UPHC-71	Bhowanipur Dispensary 26, Debendra Ghosh Road, Kolkata – 700025
92	9	UPHC-72	Rammoy Road, Ladies Park, Kol-700025
93	9	UPHC-73	118 Hazra Road Kolkata -26
94	9	UPHC-74	19B, Chetla Hut Road, Kolkata-27
95	9	UPHC-75	2, NITYA GHOSH STREET, KOL-23
96	9	UPHC-76	KABITIRTHA PARK, KOL-23
97	9	UPHC-77	15, DENT MISSION ROAD, KOL-23
98	9	Khidderpore Maternity Home	35/1, EKBALPUR ROAD, KOL-23
99	9	Mansatala Chest Clinic	6, Manashatala Lane, Kol-23
100	9	UPHC-78	47, EKBALPUR ROAD, KOL-23
101	9	UPHC-79	49/22, KARL MARX SARANI, KOL-23
102	9	UPHC-80	3 NO, HIDE ROAD, KOL-4
103	9	UPHC-82	29/5, CHETLA CENTRAL ROAD, KOL-27
104	9	Alipur Dispensary	34, JUDGE COURT ROAD, KOL-26
105	10	UPHC-89	48, K.P. Roy Lane, Kol - 700033
106	10	UPHC-94	217, Prince Anwar Shah Road, Kol - 700033
107	10	UPHC-95	34B, Samajgarh (Mina Para Road), kol-700040
108	10	UPHC-96	3 Layalka Road, Kol - 700092, Tollygunge Chest Clinic
109	10	UPHC-97	93, Chandi ghosh Road, Kol-40
110	10	UPHC-98	180, N.S.C. Bose Road, Kol - 700040
111	10	UPHC-99	2 No. Sree Colony, Vivekananda Park, Kol - 700092
112	10	UPHC-100	N.S.C. BOSE ROAD, NEAR RATHITALA BAZAR, KOL - 700047
113	10	UPHC-81	16 No. Mondal Temple Lane, Kol - 700053
114	10	UPHC-91	45, N.K. Ghosal Road, Kol - 700042
115	10	UPHC -92	Sahid Tarakeswar Sen Park, Babubagan, Kol - 700031
116	10	UPHC -93	Lake Gardens, Bangur Park, Kol - 45
117	11	UPHC-103	6/177 A, Bidhan Colony, Purba rajpur, Kol-75
118	11	UPHC-104	47 Garfa Main Road, Kol-75
119	11	UPHC-110	Birji Malaria Clinic Gajipukur Water Pump, kol-84
120	11	UPHC-111	A5 Atabagan, Boral, Garia, Kolkata - 700 084
121	11	UPHC-112	Madhyapara, Basdroni, Kol-70
122	11	UPHC-113	Sree kanan Saraj Sangha Play Ground, Kol-70
123	11	UPHC-114	Soujasree Club, Purba Putiary, Kolkata-700 093
124	11	MTB TB Hospital	
125	12	UPHC-101	Phoolbagan Melar Math, Kolkata-86
126	12	UPHC-102	Bahadur Math, Near Sikhshabithi School,

			Kolkata-32
127	12	UPHC-105	Nelinagar, Kol - 78 (Near Haltu School)
128	12	UPHC-106	Ramlal Bazar, K.M.C. Market, Kol - 78
129	12	UPHC-107	10, P. Majumdar Rd., Kol - 78 (Near Kayasthapara More)
130	12	UPHC-108	Nonadanga
131	12	VIP Nagar	Beside Anandamargee School, Kolkata-110
132	12	UPHC-109	Mukundapur, Kol - 99 (Beside Mukunda Bhaban)
133	13	UPHC-115	Dhara Para, Pump House, Karunamoyee Ghat Road, Kolkata-82
134	13	UPHC-116	294, Roy Bahadur Road, Kolkata-53
135	13	UPHC-117	1, K.P Lane, Kolkata-38
136	13	UPHC-118	224, S.N. Roy Rd., Kol-34
137	13	UPHC-119	3, S.N. Roy Rd., Kol-38
138	13	UPHC-120	COCA-COLA Bagan, 68- Bamacharan Roy road, Kolkata-38
139	13	UPHC-122	Daktarbagan Brick Field Road, Kolkata-82
140	14	UPHC-121	132, Pashupati Bhattacharjee Road, (P.C. sen Colony) Kol-34
141	14	UPHC-127	Sarsuna Satellite Township Near Sarsuna College, Kolkata-700061
142	14	UPHC-128	Jai Hind pally, P.O. Sarsuna, Kolkata-61
143	14	UPHC-129	Gopal Mishra Road, Kol-34
144	14	UPHC-130	Behind Manton Super Market, Diamond Harbour Road, Behala, Kolkata-34
145	14	UPHC-131	28/1, Panchanantala Road, Kol-34
146	14	UPHC-132	Upen Banerjee Road, Nababani Sangha Park, Parnasree Bus Stand Kolkata-700060.
147	15	UPHC-133	J/315, Askhoy Kanan (Paharpur Road) Kolkata-24
148	15	UPHC-134	Alif Nagar, Algra majdoor lane, Kolkata-700024
149	15	Ward 134 dispensary	B-3, Prince Dilawar Jah Lane, Kolkata-24
150	15	Garden reach Maternity Home	Prince Dilawar Jah Lane, Kolkata-24
151	15	UPHC-135	1st floor of Shyama charan Pal KMCP School N-194, Mudially Road, Kolkata-700024
152	15	UPHC-136	Q 457/1, Jele Para, Santoshpur Road, Kolkata.- 24
153	15	UPHC-137	S1- Murray Road (Amb. Centre) Kolkata.- 24
154	15	UPHC-138	Bartala Rail Line, Kolkata.- 18 (Opp. Purbasa KMC Primary School)
155	15	UPHC-139	U 119/1, Akra Road, (Panikol Amb. Centre) Kolkata.- 18
156	15	UPHC-140	Khaldhari Road, (Mallick Para) Kolkata.- 18
157	15	UPHC-141	Z3-154/1, Dr. A.K. Road, (Prantik) Kolkata.- 44
158	16	UPHC-123	2, Raja Rammohan Roy Rd., Kol-8
159	16	UPHC-124	Das Para, opposite Booster Pumping Station, Thakurpukur, Kolkata-63
160	16	UPHC-125	Backside of Bramhapada KMC Primary School

			Jagir Ghat Road, Kolkata-700063
161	16	UPHC-126	Annjuman Corporation Primary School 76, Ho-chi-Minh Sarani Kolkata-700061
162	16	UPHC-142	Company pukur Kolkata-104
163	16	UPHC-143	Diamond harbour Road, Diamond park, joka, kolkata-104
164	16	UPHC-144	Diamond harbour Road, Diamond park, joka, kolkata-104

A.10.2 List of Ambulances of KMC

Station	Number of ambulance
KMC Ambulance Head Quarter 132, C.R Avenue	9
Ikbalpur Maternity Home	1
Gardenrich Maternity Home	1
KMC Head Quarter	1
Borough XI, XII, XIV, XV, XVI	5
Total	17

A.10.3. List of Crematoriums / Burning Ghats managed by KMC

- Cossipore Mahasmashan
- Nimtola Burning Ghat
- Kashimitra Burning Ghat
- Birjunala Burning Ghat
- Garia Adi Mahasansan Burning Ghat
- Surity Burning Ghat
- Shanagar Burning Ghat
- Dhapa Electric Crematorium (only for unclaimed bodies)

A.10.4. List of Hindu Burial Grounds managed by KMC

- Bhatchala Hindu Burial Ground
- Muraripukur Hindu Burial Ground
- Topsia Hindu Burial Ground

A.10.5 List of Muslim Burial Grounds managed by KMC

- Bagmari Muslim Burial Ground
- Gobra Muslim Burial Ground I
- Gobra Muslim Burial Ground II
- Gobra Muslim Burial Ground III
- Soloana Muslim Burial Ground
- Garden Reach Muslim Burial Ground

A.10.6 List of Equipments KMC Sewerage and Drainage Department

Name of the Equipment	Total Numbers
Manhole desilting machine	70
Open nullah desilting machine	5
Gully pit emptier machine	29

Jetting cum suction machine	14
Jetting machine	5
Suction machine	2
Blow vac machine	5
Power bucket machine	30
Portable dewatering pump	121

Available Safety Equipments (For Permanent Staff)

Sl.No.	Name of Item	Qty
1	First Aid Box	21 nos.
2	Medicated Musk	150 nos.
3	Safety Belt	70 nos.
4	Helmet	22 nos.
5	Helmet With Light	187 nos.
6	Hand Gloves	230 nos.
7	Gumboot	212 nos.
8	Full Body Suit	2 nos.
9	Oxygen Breathing Apparatus	2 nos.
10	Poisonous Gas Detector	17 nos.
11	Air cpmressor	2 nos.

A.10.7 List of Drainage Pumping Stations

Sl No	Name of the Drainage Pumping Station	No. of Pumps	Telephone Nos.	Remarks
1	Manicktala Drainage Pumping Station	05	2350-1166	Ex. Engineer (E)/MDPS/ S&D Tapan Sarkar 80137-63737
2	Beerpara Drainage Pumping Station	02		
3	Belgachia Drainage Pumping Station	02		
4	Ultadanga Siphon	01		
5	Maniktala Siphon	01		
6	Marcus Square	02		
7	Dutta Bagan (DWF) New	03	2546-0064	
7(a)	Dutta Bagan (SWF) New	03		
7(b)	Dutta Bagan old	06		
8	Cossipore	03		Ex. Engineer(M)/DLPS/ S&D Pradip Nandy 9433112634
9	Jagannath Ghat	04		
10	Dhapalock Pumping Station	09	2323-5536	
11	Topsia Drainage Pumping Station	7	2343-4236	
11(a)	Topsia Drainage Pumping Station. Point A (DWF	03	2343-4236	
11(b)	Topsia Drainage Pumping Station. Point A (SWF)	04		
12	Ultadanga Pumping Station	11	2359-4621	
13	Slip Road, Durgapore Bridge	03		
14	Untadanga underpass	02		

15	Hatisur	05		
16(a)	Palmer Bridge Drainage Pumping Station (DWF)	09	2251-2402/0053	Ex. Engineer(M)/PBPS/S&D Biswanath Das 98301-09712
16(b)	Palmer Bridge Drainage Pumping Station (SWF)	04		
17	Kuliatangra	06		
18	Pagladanga	08		
19	Thantania Pumping Station (Hrisikesh Park)	02	2354- 3748	
20(a)	Ballygunge Drainage Pumping Station (Old station)	07		Ex. Engineer(E) / BDPS / S&D Kajal Kr.Roy 98742-72283
20(b)	Ballygunge Drainage Pumping Station (New Station)	04	2344- 9142	
21	Mominpur Pumping Station	08	2344-9142	
22	Chetla Lock Pumping Station	04	2449- 6630	
23	Nimak Mohal Pumping Station	02	2400-6243	
24	Jodhpur Park Drainage Pumping Station	05		
25	Kalighat Drainage Pumping Station	02	2483-8457	
26	Southern Avenue(SWF)	04	2439-8857	
27	Gokhel Road(SWF)	02	2465-0408	
28	Kanta Pukur (L.S.- 9)	04		
29	Majherhat(L.S. -10)	03		
30(a)	Behala Flying Club(DWF)	06		
30(b)	Behala Flying Club(SWF)	02		
	Total	160		
Taken over Pumping Station				
31	LS-1 (Beside Ratan Babu Ghat)	04		Tapan Sarkar Ex. Engineer (E)/MDPS /S&D 80137-63737
32	LS-2 K.P. Singh Road	04		
33	LS-3, B.T. Road	04		
34	Bangur MPS	05		
35	R.K.Ghosh Road	03		
36(a)	Beerpara New DWF	03		
36(b)	Beerpara New SWF	03		
Under PBPS				
37	Chingrihata	07		Ex. Engineer (M)/PBPS/S&D Biswanath Das 98301-09712
38	Sirity (B.L. Saha Road)	05		
39	James long Sarani (LS-2)	04		
Under DLPS				
40(a)	Kamdahari Garia (DWF)	06		Pradip Nandy Ex.Engineer (M)/DLPS/ S&D 9433112634
40(b)	Kamdahari Garia (SWF)	06		
41	Baishnabghata Patuli	05		
42	Maniktala Underpass	02		
43	PS 1 Baghajatin	03		
44	PS 2 Jorabridge	06		
45	PS 3 Rajdanga	06		

46	PS 4 Nonadaga	06		
47(a)	Chalk Garia (DWF)	02		
47(b)	Chalk Garia(SWF)	04		
48(a)	Ambed Kar Bridge (DWF)	03		
48(b)	Ambed Kar Bridge (SWF)	05		
49(a)	Kasba(DWF)	03		
49(b)	Kasba(SWF)	02		
50(a)	EE1 Minor(DWF)	03		
50(b)	EE1 Minor(SWF)	03		
51	Chowl Patty	05		
Under BDPS				Kajal Kr.Roy, Ex. Engineer(E)/BDPS / S&D 98742-72283
52	Santospore MPS	05		
53	Jingirabazar MPS	05		
54	Trenching Ground LS	03		
55	Dhankethi Khal LS	05		
56	Sakuntala Park (Node-C)	06		
57(a)	CPT Canal (DWF)	03		
57(b)	CPT Canal (DWF)	03		
58	Podir Hati	06		
Under KUDGHAT unit				Supriya Sengupta Ex. Engineer(E)/ KUDGHAT/S&D 98303-11559
59	Keorapukur MPS	05		
60	LS-1, Buroshibtala	04		
61	LS-1A , Rathtala (Garia)	03		
62	LS-1B Usha Gate 9Raninagar), Garia)	03		
63	LS-2A, Bansdroni	03		
64	LS-2B , Kudhghat Kalibari	04		
65	LS-5, Kudhghat	04		
66	Canal Road Pumping Station	03		
Taken Over KMW&SA Pumping Stn(PBPS)				BiswanathDas, Ex.Engr(M)/PB PS/ S&D 98301-09712
67	Hesting	05		
68	Sasisekher	05		
69	Tallygunge	03		
70	Tollygunge Golf Club	04		
71	Thakery Road	05		
72	Santi Nagar 2	03		
73	Naktala 2	03		
Total		205		
Grand Total		365		

A.10.8 List of Equipment of SWM Department, KMC

Sl. No.	List of the machineries	Quantity
1	Bull Dozer	4
2	Loader	4
3	Back Hoe Loader	3
4	Stationery Compactor + Movable Compactor	336+95

5	Mechanical Sweeper	22
6	Street washing Vehicle	30
7	Cess Pool Emptier	5

A.10.9 List of Equipments of Parks and Square Department (Used to remove uprooted trees)

1. Mechanical/Hydraulic Saw
 2. Hand Saw
 3. Axe
 4. Nylon Rope
- There are 16 gangs in 16 boroughs (one in each borough). Apart from this there are two gangs in KMC HQ control room. Each gang is equipped with the above mentioned equipments.
 - Each gang is equipped with one lorry
 - Hydraulic ladder are also used where required. During night four (4) hydraulic ladders are used. During day twelve (12) hydraulic ladders are in operation for trimming and other related purposes.
 - Another 10 hydraulic ladder will be operational from April,2020
 - 12 water tank with sprinkler for watering the plants and decrease the dust in the city.

A.11 RESOURCE INVENTORY OF FIRE AND EMERGENCY SERVICES DEPARTMENT

Fire Station	water	water bouser	water carrier	MSWT	portable pump	towing vehicle	trailer	SPL.PPL.	others UV /	Remark
Alifnagar F.S.	2	1		2	3			1	1	
Patuli F. S.	1	1	1	1	2			1	1	
Garden Reach F.S.			1	1	2			1		
Gariahat F.S.	2		1	1	2			1	1	
Head Quarter F.S.	9	7	5	5	5	4	2	6	10	
Kalighat F.S.	1			1				1		
Masterda Surya Sen Fire Station	1		1	1	2			2	1	
Tollygunge F.S.	1		1	1	3	1		1	1	
Central Avenue F.S.	6	2	3	5	15	2	1	6	4	
Nimtala F.S.	1				3					
Cossipore F.S.	1	1	2	1	4		1	2	1	

Lalbazar F.S.	1	1		1	3			1	1	
Canal West Road F.s.	1	2	2	1	3			1	1	
Manicktala F.S.	1	2	1	1	3	1	1	1	1	

Resource inventories of the Fire Service Directorate of Kolkata District

Sl. No.	Name of the Appliance or equipment	Number of Appliance or equipment	Generally used for
1	Water Tender	28	Fire Fighting, Rescue & Watering
2	Mounted Pump foam Tenders (MPFT)	2	Fire Fighting, Rescue & Watering
3	Towing Vehicles	8	Fire Fighting, Rescue & Watering
4	Emergency Tenders	2	Fire Fighting, Rescue & Watering
5	Regular Jeep	4	Fire Fighting, Rescue & Watering
6	Hydraulic Rescue Unit	1	Fire Fighting, Rescue & Watering
7	Mid size water tenders	21	Fire Fighting & Watering
8	Ambulance	2	Rescue/Transportation of injured
9	Utility Vehicles	20	Multi Purpose
10	De-watering pump	2	De-Watering
11	Motor Cycle with Compressed Air Foam Fire Fighting System	19	Fire Fighting
212	Portable Fire Pumps	48	Watering & De- Watering
13	Trailer Fire Pumps	5	Watering & De- Watering
14	Fully Mechanical Automatic Ladders	5	Rescue Works and Fire Fighting
15	Pneumatic Lifting Bags	8	Rescue Works & Lifting Heavy Object
16	Single Double Engine Life Boat	-	Rescue Work & Relief Operation
17	Hazmat Van	-	Rescue Operation
18	De-watering Vehicle Mounted Pump	-	De-Watering Flooded Water
19	Hydraulic Cutter	10	Rescue Works and Fire Fighting
20	Hydraulic Spreader	10	Rescue Works and Fire Fighting
21	Mobile Communication System/Walky-Talky	30	Fire Ground Communication
22	Urban Search & Rescue Equipments	4	Rescue Operation
23	Self Contained Breathing Apparatus Sets	75	Breath in an abnormal and toxic atmosphere
24	Self Contained Breathing Apparatus Line Units	2	Breath in an abnormal and toxic atmosphere
25	Breathing Apparatus Van	-	Rescue Works and Fire Fighting
26	Mobile Control van	-	Communication

27	Emergency Lighting (Available with M.P.F.T)	2	Rescue Works and Fire Fighting
28	Synthetic Rope/Lines	115	Rescue Operation
29	Inflated Lights	30	Search and Rescue
30	Ladders of Different Sizes	115	Search and Rescue

A.12 RESOURCE INVENTORY OF DMG, KOLKATA POLICE

DMG EQUIPMENT RELATED TO CSSR WING

SI No	Name of the Equipment	Quantity Held	Employability
1	Axe	30	CSSR Wing
2	Ascension L/R	11 pairs	CSSR Wing
3	Gas Mask Canister	760	CSSR Wing
4	Anti Mosquito Fogging Machine-SR-420	2	CSSR Wing
5	Belt Bag (Waist Pouch)	74	CSSR Wing
6	Back Pack	34	CSSR Wing
7	B. A. Set	23	CSSR Wing
8	Aluminum Folding ladder	4	CSSR Wing
9	B. Level Suit	10	CSSR Wing
10	Chisel	30	CSSR Wing
11	Chipping Hammer	5	CSSR Wing
12	Chipping Demolition Hammer	4	CSSR Wing
13	Come Along	5	CSSR Wing
14	Chopper	60	CSSR Wing
15	Carabiner	144	CSSR Wing
16	Crowbar	10	CSSR Wing
17	Circular Saw - Metal cutting Blade - STIHL	51	CSSR Wing
18	Circular Saw – Concrete cutting Blade - STIHL	8	CSSR Wing
19	Circular Saw - Metal cutting Blade - MAKITA	35	CSSR Wing
20	Circular Saw - Concrete Cutting Blade - MAKITA	7	CSSR Wing
21	Circular Saw – STIHL	13	CSSR Wing
22	Circular Saw – MAKITA	5	CSSR Wing
23	Comfo Respirator	95	CSSR Wing
24	Drill machine - Electric- Model - FD10SB	10	CSSR Wing
25	Disposable mask	2580	CSSR Wing

26	Double Pully	8	CSSR Wing
27	Diamond Chain Saw - ICS	3	CSSR Wing
28	Dynamic Rope Beal -11mm-100mtr	4	CSSR Wing
29	Ear Plug	60	CSSR Wing
30	Eye Protector	1075	CSSR Wing
31	Expansion Bolt	600	CSSR Wing
32	Full Face Mask	280	CSSR Wing
33	Fumigation Machine	5	CSSR Wing
34	Full Body Harness	32	CSSR Wing
35	Fall Protection Harness – UEE – 284	18	CSSR Wing
36	Foot tape for Ascender	32	CSSR Wing
37	Fall Arrest (Retractable)	6	CSSR Wing
38	Figure of Eight	12	CSSR Wing
39	Fall Arrest Mesh Safety Net	3	CSSR Wing
40	Gloves – Industrial	550	CSSR Wing
41	Gloves – Rappelling	50	CSSR Wing
42	Gri Gri (Cinch)	20	CSSR Wing
43	Gloves – Latex – non sterlite (in pairs)	1500	CSSR Wing
44	Gaity	22	CSSR Wing
45	Head Torch	25	CSSR Wing
46	Hand Driven Saw (6' – 30, 4' – 30)	60	CSSR Wing
47	Hammer	30	CSSR Wing
48	Helmet Light	74	CSSR Wing
49	Helmet	690	CSSR Wing
50	Helmet with light (LED)	198	CSSR Wing
51	Head Torch Tikka Plus	35	CSSR Wing
52	Hauling Kit	3	CSSR Wing
53	High Power Battery Drill Machine	6	CSSR Wing
54	Hanger	620	CSSR Wing
55	Hydraulic Cutter & Spreader	2	CSSR Wing
56	Kernamental Rope -10mm-200mtr	4	CSSR Wing
57	Key Hole Saw	5	CSSR Wing
58	Knee Pad special type	30pair	CSSR Wing
59	Power Ascender – PQ-500	2	CSSR Wing
60	Pneumatic Air pressure Lifting Bag	2	CSSR Wing
61	Pixes	10	CSSR Wing
62	Pully Fixe	8	CSSR Wing
63	Quick Draws	23	CSSR Wing
64	Reverso tuber	7	CSSR Wing

65	Rappelling Mittel – Gloves	20pair	CSSR Wing
66	Reciprocating Saw	5	CSSR Wing
67	Rotary Hammer Drill	5	CSSR Wing
68	Rope Throwing Gun Stand	1	CSSR Wing
69	Rope at different height	19	CSSR Wing
70	Spade	11	CSSR Wing
71	Seat Harness – Corax	23	CSSR Wing
72	Rescue Aluminum Rope ladder -10mtr	24	CSSR Wing
73	Rappelling Static rope -10.5mm – 200m	104	CSSR Wing
74	Rope Protector	25	CSSR Wing
75	Rope Bag & Pack	12	CSSR Wing
76	Rope Throwing Gun – Model-PQ630	02	CSSR Wing
77	R. R. Saw – Electric	05	CSSR Wing
78	SDS Drill Bit	20	CSSR Wing
79	Search Camera Victim Location Unit	01	CSSR Wing
80	Stopper – Descender Stop	20	CSSR Wing
81	Shovel	10	CSSR Wing
82	Thermal Imaging Camera – model-P-7150	01	CSSR Wing
83	Jumping Cushion	02	CSSR Item
84	Sticker for Radiation Warning Symbol	245	CSSR Item
85	Ajax Trusted Aluminum Ladder	02	CSSR Item
86	Base light	02	CSSR Item
87	Demolition Hammer	04	CSSR Item
88	Hydraulic Jack – 20-TON	02	CSSR Item
89	Kombi Tool	02	CSSR Item
90	Life Search & Breathing Detection System	01	CSSR Item
91	Multi Gas Detector	01	CSSR Item
92	Portable Gas Cutter	01	CSSR Item
93	Ramset with matching foot pump	02	CSSR Item
94	Victim Locating System with Breaching system	01	CSSR Item

DMG EQUIPMENT RELATED TO WATER WING

Sl No	Name of the Equipment	Quantity Held	Employability
1	Air Compressor Machine	8	Water Wing
2	Air Pipe	200mtr	Water Wing
3	Communication Device (underwater)	03	Water Wing
4	Diver Box Type Panel – 2- C/W	01	Water Wing

	Pneumo Gauge		
5	B. A. Set - Under Water	09	Water Wing
6	Diving Mask	13	Water Wing
4	Diving Suit	21	Water Wing
8	Diver's Gloves & Boots	15 pair	Water Wing
9	Diving Harness – 3X	03	Water Wing
10	Diving Suit – DRY	02	Water Wing
11	Diving Overall	06	Water Wing
12	Diving Harness for divers	02	Water Wing
13	Diving Tool Kit	01	Water Wing
14	First Stage Regulator C/W HP (for Divers)	02	Water Wing
15	Foot Pump	08	Water Wing
16	Boat (Fiber)	02	Water Wing
17	FIN - Flipper	6 pair	Water Wing
18	Hood Head Cover	04	Water Wing
19	Life Jacket	120	Water Wing
20	Life Buoy	24	Water Wing
21	Lead Weight -1Kg – 5,2Kg-5	90	Water Wing
22	Lead Weight With Belt	15	Water Wing
23	Inflatable (Rubber boat)	06	Water Wing
24	Knife – Underwater	12	Water Wing
25	Nylon Net	11	Water Wing
26	OBM	05	Water Wing
27	Oars	4 pair	Water Wing
28	Plumbing- 50 ltr-CW	02	Water Wing
29	Synflex Jumper Hose	04	Water Wing
30	Speed Boat with OBM-60HP- Merlyn	01	Water Wing
31	Navigation light Search light & horn – 1 Mid boat Eye -1 Life Jacket – 6 Life Buoy – 2 Anchor with rope – 1	1 Set	Water Wing
32	Under water Torch	12	Water Wing
33	Weight – 10 & 20Kg	03	Water Wing

**DMG EQUIPMENT RELATED TO
CSSR & WATER WING**

Sl	No	Name of the Equipment	Quantity Held	Employability
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1	Air Compressor for Cylinder	05	CSSR & Water
2	Camping System (Tent)	01	CSSR & Water
3	Search Light	99	CSSR & Water
4	Danger Tape with stand	02	CSSR & Water
5	Fiber Stretcher	05	CSSR & Water
6	Generator	12	CSSR & Water
7	Gum Boot – Normal	74	CSSR & Water
8	High Visibility Apparels	795	CSSR & Water
9	Halogen lamp, with telescopic stand & wire	10	CSSR & Water
10	Knife – Spatha	34	CSSR & Water
11	Loud Hailor	05	CSSR & Water
12	Loud Hailor – Megaphone	20	CSSR & Water
13	Man pack Wireless Set Model-GP-328	90	CSSR & Water
14	Nylon Rope	25	CSSR & Water
15	Overall jacket	239	CSSR & Water
16	Portable Shelter -14 feet – 10’x14’x7’	06	CSSR & Water
17	Scene tape Roll – 100m	05	CSSR & Water
18	Tripod With Winch –rescue victim from wells	02	CSSR & Water
19	Portable LED Light with Power Unit	04	CSSR & Water
20	Under water / Over ground search light	09	CSSR & Water
21	CPR Mannequin (Half Body)	02	CSSR & Water

DMG EQUIPMENT RELATED TO TREE CUTTING & TRIMMING

SI No	Name of the Equipment	Quantity Held	Employability
1	Bullet Chain Saw	45	Tree Cutting
2	Chain for Telescopic Pole Pruner	09	Tree Cutting
3	Chain for Bullet Chain Saw	90	Tree Cutting
4	Filing Kit of Chain	59	Tree Cutting
5	Telescopic Pole Pruner	10	Tree Cutting

DMG EQUIPMENT RELATED TO MFR

SI No	Name of the Equipment	Quantity Held	Employability
1	B. P. Checking Machine “Digital”	03	MFR Item
2	Cotton Bandage	20	MFR Item
3	Cotton Big Spool	20	MFR Item

4	Cervical Collar (small)	10	MFR Item
5	Hot Water Bag	05	MFR Item
6	Medical Item-Thermometer (Digital)	06	MFR Item
7	Medical Items-Trauma Scissor	05	MFR Item
8	Medical Items - Tongue Depressor	05	MFR Item
9	Medical Items-Triangular Bandage	25	MFR Item
10	Padded Board - Medium	05	MFR Item
11	Pen Torch	15	MFR Item
12	Restraint Patient Strap-8"	10	MFR Item
13	Roll Gauge	05	MFR Item
14	Stethoscope	05	MFR Item

DMG EQUIPMENT RELATED TO FIRE

SI No	Name of the Equipment	Quantity Held	Employability
1	Gum Boots (Fire)	50 pair	Fire
2	Fire Rescue Helmet	37	Fire
3	Fire Boot & Gloves	32	Fire
4	Fire Mask	25	Fire
5	Fire Entry Suit -with BA Set	01	Fire
6	Fire Proximity Suit	25	Fire
7	Protective Fire & Gas Mask	373	Fire
8	Water gel blanket	09	Fire
9	Fire Extinguisher	25	Fire
10	Fire Axe	05	Fire
11	Smoke Regulator Fan	02	Fire

AVAILABILITY OF BOATS

ITEMS	No. of Boats	Location	Contact Person	Telephone No.
Rubber Boats – 06	06	PTS	O/C - DMG Kankan Roy Sergeant Dipta Roy Kaushik Sarkar	9830108651 8420039694 8017989576

AVAILABILITY OF DRAGON / SEARCH LIGHT **DRAGON / SEARCH LIGHT:- 17 (Working)**

SINo	Battery Capacity	Lamp	Inducted in	Status
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			DMG	
1	12- Volt 7 - Amp	Halogen Lamp	11/06/09	Useable – 5
2	12- Volt 7.2 - Amp	Halogen Lamp	23/07/12	Useable – 4
3	6 - Volt 3.5 - Amp	LED Lamp	23/07/12	Useable – 5
4	Lithium Ion	Xenon HID/ LED	26/03/18	Useable – 9

AVAILABILITY OF WRECKER AND CRANES AND ACCESS PLATFORM

Name of the Equipment	Quantit y	Capacity	Remarks
Cranes	02	12 Ton Mobile Crane 9 Ton Mobile Crane	Serviceable

AVAILABILITY OF HEAVY VEHICLES / JEEP

Sl. No	Type of Vehicle	Number of Vehicle
1	Truck (Heavy Vehicles)	02
2	Tata Sumo (Jeep)	03

AVAILABILITY OF VEHICLES

Type of Vehicle	Quantity	Make	Remarks
Truck	2	TATA - 1112 - EX - TURBO	Used during exigency (under disposition of MTO, SF)
Water Tanker	3	TATA - 709 SWARAJ MAZDA	For Water Supply Use during exigency (under disposition of MTO, SF)
Light Truck	1	TATA - 407	For CSSR Wing

Light Vehicle	4	TATA - SUMO	Used during exigency (under disposition of MTO, SF)
Equipment/ Troop Carrier	2	TATA - 909	Custom build vehicle for CSSR Wing

A.13 List of resources of Kolkata Traffic Police

Government Ambulance (Kolkata Police Traffic Department)

- Total strength : 02 Ambulances :
- i) Force Traveller : 02

KARMA (Kolkata Accident Rescue & Medical Assistant) :

- Total strength : 29 Ambulances :
- i) Tata Winger = 18.
- ii) Force Traveller = 08
- iii) Force Traveller = 03.

Vantage points of KARMA ambulance:

Day Time = 08:00 hrs. to 20:00 hrs.

<u>Sl. No.</u>	<u>Duty Place</u>
1	Raja Bazar Crossing.
2	Parama Island.
3	Dorina Crossing.
4	Shyambazar 5 Point.
5	Girish Park.
6	DRO Port Division Office.
7	NPPS.
8	Jadavpur 8 B Bus Stand.
9	Behala Chowrasta. (08:00hrs to 18:00 hrs.)
10	Hestings.
11	Balligunge Phari .
12	Raj Bhavan S/Gate.
13	Ruby Hospital/Shyamolima.
14	Hazra/Harish Chatterjee St. Crossing.

Night time = 20:00 hrs. to 08:00 hrs.

<u>Sl. No.</u>	<u>Duty Place</u>
1	Parama Island.
2	Dorina Crossing.
3	Shyambazar 5 Point.
4	BalligungePhari .

Apart from KARMA ambulance, there are 4 Govt. Wreckers & 23 Hired Wreckers being deployed in emergency.

Deployment of Modern Hired Wrecker from 08:00 hrs. to 20:00 hrs.			
Sl. No.	Place	Vehicle No.	Type of Vehicle
1	Shyambazar 5 Point	WB20BB0266	Tata - 407
2	Moulali Crossing	WB20BA9956	Tata - 407
3	D.L.Khan& AJC Bose Xing (BHP TP Guard - BT. No. 25)	WB20AY9292	Tata - 407
4	Turf View	WB20DA6780	Tata - 407

5	Taratala Crossing	WB20AX2535	Tata - 407
6	Jems Long Sarani&S.N.Roy Road crossing	AB20AU9616	Tata - 407
7	D.H.Rd&Burdwan Rd Crossing	WB20AG1689	Tata - Xenon
8	New Alipur Island	WB20AZ2950	Tata - 407
9	Park Circus 7 Point	WB20AG2600	Tata - Xenon
10	Karunamayee Bridge	WB20AZ2930	Tata - Xenon
11	Infront of Jadavpur PS	WB15C1687	Tata - Xenon
12	BehalaChowrastha	WB20AZ2833	Tata - 407
13	Metiabruz TP Guard	WB49N0356	Tata - 407
14	Beckbagan Ramp (A.J.C. Fly over)	WB20AZ7801	Tata - Xenon
15	At the western slope of Maa Fly over (Topsia Cut out)	WB36F6894	Tata - 407
16	At the Southern slope of Maa Fly over	WB20BA5787	Tata - Xenon
17	Alipure Rd. &Chetla Central Rd. crossing.	WB20BA7494	Tata - 407
18	New Alipur Island (from 07:00 hrs.(AM) to 22:00 hrs. PM)	WB58K8401	A/Layland (Heavy)
19	New Alipur Island (from 22:00 hrs.(PM) to 07:00 hrs. AM)	WB 24K 0382	A/Layland (Heavy)
20	Rubi Island	WB 20BA 6179	Tata - 407
21	TollygungeTrumDepo.	WB 20BA 7875	Tata - 407
22	Alipur SBI (from 08:00 hrs.to 17:00 hrs.)	WB20BA9285	Tata - 407
	Sahapur Road & J.K. Paul Rd. Crossing - SW Beat. 7C. (from 17:00 hrs.to 21:00 hrs.)		
23	C.G.R Rd. & Hide Road crossing (from 20:00 hrs.to 07:00 hrs.)	WB38AB7773	A/Layland (Heavy)
Deployment of Govt. Wrecker			

24	Hastings crossing (from 08:00 hrs.to 20:00 hrs.)	WB-06P-0124	Tata Medium Wrecker
	Hastings crossing (from 20:00 hrs.to 08:00 hrs.)	WB-06P-0126	
25	S/By Nano Crane	WB-05-0223	Tata 207 DI
26	S/By MC Crane	WB-05-0224	Tata 410

A.14 RESOURCE INVENTORY OF NDRF

LIST OF MANPOWER	
Inspector	1
Sub inspector	3
S1(Engineers)	2
Sitcoms)	1
Doctor	1
Paramedics	5
HC(GD)	4
HC(Comm)	1
Constable	24
Technician	1
Electrician	1
Follower	1

Total 18 teams x 47 persons per team = 846 personnel and 12 teams can be deployed at a time within 02 hrs after getting warning /information for any disaster depending upon distance.

LIST OF VEHICLES	
Nomenclature (Type of vehicles)	Nos. Authorised
Light Vehicle - 44	44
Medium Vehicle - 18	18
Heavy Vehicle - 18	18
Ambulanc-06	6

LIST OF EQUIPMENTS & TOOLS OF EACH TEAM		
NCB EQUIPMENTS		
1	NBC Suit(box)	45
2	Teletector	6
3	NBC Boot	45
4	NBC Boot	
5	NBC Gloves	45
6	Face Mask	45

7	Nose mask universal	45
8	Auto injector (3 BOX)	45
9	Resuscitator	6
10	Mini Rad (external)	6
11	Electronoc Dosimeter	45
12	Air Sampler	2
13	Micro survey paper/Meter	2
14	Alpha Monitor	2
15	DM Kit Box	1
16	Intrigrated Hood Mask	9
17	Respirator with 2 Canister	45
18	Tongs (2ft)	18
FLOOD RESCUE EQUIPMENTS		
1	Inflatable boat with OBM	4
2	Life bouy	45
3	Life jacket	45
4	FRP boat with 40 HP OBM	2
5	Personal Diving Kit (Diving suit, breathing apparatus, weight belt,gloves, dive fins)	2
6	Under water communication set	1
7	Under water Torch	1
8	Floating Pump	1
MFR EQUIPMENTS		
1	PPE	45
2	MFR Kit Box	
3	Oxygen Cylinder 680 (Oxydose) light weight with Accessories	6
4	Rescue Stretcher	2
5	Traffic Cone	15
6	Laud haller	12
LIGHTING AND POWER EQUIPMENTS		
1	Portable generatora Set 2.5 KVA	4
2	Inflatable Lighting Tower	1
3	Extension Cord 8mm dia 100 mtrs long	12
4	Working Lamp with 50M Lead	12
5	Fuel Container 20 Ltrs	24
CSSR ITEMS		
1	Hard boot toe	45
2	Shoval & Spade	4+4+8

3	Air Lifting Bags with Air Cylinder	1
4	Steel Pipe 4" dia	60
5	Galvanised Metal Tubes	60
6	Full Body Harness with accessories	2
7	Breaching system	1
8	carbide tipped chain Saw	1
9	Safety Helmate	45
10	come along (2 boxes) with accessories	1
11	Multy cable winch	1
12	Life Detector	1
13	Vectim Location Equipments and Breaching System	1
14	Angle Cutter (Electric) 14" Dia	2
15	Circular Saw	2
16	Bullet Chain Saw(carbide tipped)	2
17	Diamond Chain Saw	1
18	Combination cutter with sprader	1
19	Combination cutter with sprader	1
20	Hammer Drill Concreate	1
FIRE FIGHTING EQUIPMENTS		
1	Exhaust Fan 12"	4
2	ventilator & Air Tube 7 mtr long	2
3	Fire Extingusher Portable	4
4	Breathing Appatatus with cylinder	2
5	Distress Dignal Unit	36

A.15 RESOURCE INVENTORY OF METRO RAIL, KOLKATA

A.15.1 FIRE EXTINGUISHERS, FIRE ALARMS AND AUTOMATIC FIRE EXTINGUISHERS (AFX)

All fire extinguishers of Metro Railway are maintained by the fire service wing of the Metro Railway. The locations of the fire extinguishers are given below:-

Summary of Fire Extinguishers in Metro Railway, Kolkata

S/ No	Location	Nos.
1.	METRO RAILWAY STATION	334
2.	METRO RAILWAY ELECTRIC SUB-STATION	372
3.	METRO RAILWAY AV COMPLEXES	152
4.	METRO RAILWAY RAKES	115

5.	METRO RAILWAY STATION PREMISES AND METRO RAILWAY FIRE STAION	269
	TOTAL	1242

Fire extinguishers are of DCP (Dry Chemical Powder) type, CO₂ type, water type, light water type, etc.

The location of the **Fire Alarm Systems** in metro Railway are as below:-

All Fire Alarm and AFX (Automatic Fire Extinguishing system) are maintained by outside agencies under Annual Maintenance Contracts.

Sl. No.	Location	No. Of System
1.	KMUK/TSS/Car Shed	01
2.	KMUK/TSS	01
3.	KRSB/TSS	01
4.	KKHG/ASS	01
5.	KJPK/ASS	01
6.	KNBN/ASS	02
7.	KRSD/RSS	01
8.	KDMI/ASS	02
9.	KPSK/TSS	01
10.	KESP/ASS	02
11.	KCWC/Sub-station (ass)	01
12.	KCEN/Sub-station	01
13.	KMHR/ASS	02
14.	KGPK/Sub-station	01
15.	KSHO/Sub-station	02
16.	KSHY/Sub-station	01
17.	KBEL/TSS	01
18.	KDMI/TSS	01
19.	Noapara Sub-station	04

The location of the **AFX machines** are as below:-

Sl. No.	Location	No. Of Machines
1.	Mahanayak Uttam Kumar Telephones Exchange	01
2.	KRSB/Sub-station	04
3.	KJPK/ Sub-station	04

4.	KRSD/ Sub-station	09
5.	KPSK/ Sub-station	05
6.	Chitpur Sub-station	03
7.	Chitpur AV Complex	05
8.	KBEL/ Sub-station	04
9.	KDMI/ Sub-station	04
10.	KDMI/ Sub-station	01
11.	MB/Telephones Exchange	01

CHAPTER — II

FACILITIES & ORGNIZATION FOR MANAGEMENT OF DISATERS

2.1 Facilities:

Facilities available with Metro Railway for management of Disasters are as under.

I.1.1. Fire fighting Facilities:

- (i) Mobile Fire Station
- (ii) Water pipe line along p-way track, with fire hydrants
- (iii) Water Tanks for supplying water to fire hydrants
- (iv) Fire Extinguishers in Trains cab & compartment, platform and all vital installations, Fire Alarms and AFX machines (Automatic Fire Extinguisher) Fire buckets with led light.
- (v) Fire buckets with stand.
- (vi) Helmet with Led Light.
- (vii) Fire Safety Jackets (Reflective Jacket).
- (viii) Full Face Mask.
- (ix) AFFT Fire Extinguishers (installed at elevated Station)
- (x) Breathing Apparatus –ART Vans &Hospital only.

The details are furnished in the following Annexure to this chapter:-

Annexure 2.1:

Annexure 2.2: Details of water pipe line & fire hydrants. Concerned with Engineering Department.

Annexure 2.3: Details of Water Tanks for Fire Fighting. Concerned with Engineering Department.

Annexure 2.4: Details of Fire Alarms & AFX machine. Details of Fire Alarm system may be collect respective department. (Electrical & S &T)

Annexure 2.4A: Details of Fire Extinguishers and other safety Equipments.

Annexure 2.5: Availability of House & Branch pipe at station. House Reel hose Will be provided in each Metro Station. Procurement is under process.

A.15.2. DETAILS OF MOBILE STATION

Mahanayak Uttam kumar Mobile Fire Station:

This is situated at a distance of $\frac{1}{4}$ km from Mahanayak Uttam Kumar station towards Rabindra sarabor Station. The sanction staff strength of this fire station is 15nos. Fire fighting staff under control of ASC/Fire. But strength of Fire staff decreased day by day due to their retirement.

- (i) Water Tender Fire Engine No. WB-03/C-5531.
- (ii) Two no Portable Generator with light.

The capacity of the Water Tank is 6000 ltrs. and ancillary fittings as per IS:905 are as under:

Sl/ No	Appliances & Equipments	Unit	Quantity
1	Aluminium Extension Ladder 10.5 mtrs as per IS:4571	No.	08
2	a) 63mm dia Rubberized Fabric Lined Delivery Hose bearing IS:636-1988 (Type A) fitted & binned with 63 mm male/female couplings 22.5 m x 8length = Total 180 meter	Length	08
	b) Controlled Percolating Hose confirming to IS:8423 bearing ISI mark in 30m length fitted with delivery hose couplings= Total 150m	Length	05
3	a) Hose Clamps	No.	25
	b) Hose Bandages	No.	25
	c) Hose Sling	No.	25
	d) Hose Straps	No.	25
4	Suction hose rubber of 100 mm internal diameter in 2.5m length fitted with 100 mm suction hose couplings(2.4 x\$)=10m)	Length	04
5	Three way suction collecting head 100 m size	No.	01
6	Suction wrenches for 100 mm suction coupling	No.	02
7	Suction Strainer 100 mm	No.	01
8	Basket Strainer (Cylinder type)	No.	01
9	Dividing breaching with control instantaneous pattern 63 mm	No.	01
10	Collecting breaching instantaneous pattern 63 mm	No.	01
11	a) Hydrant Stand Pipe 2 way	No.	01
	b) Double female coupling	No.	02
	c) Hydrant connection, 63 mm double armoured hose 1 m long with female instantaneous pattern delivery coupling at both ends	No.	02
		No	
12	Combined key for Hydrant cover & Lower Valve	No.	02
13	Fog nozzle with extension applicator with Fog Head	No.	01
14	Hand Controlled Branch pipe	No.	01
15	Branch pipe universal	No.	01

16	Branch with revolving head	No.	01
17	Branch pipe	No.	04
18	Nozzle of sizes 12mm, 16mm, 20mm & 32mm (02 each)	No.	10
19	a) Adopter for 100 mm Suction female screw coupling and 63 mm male instantaneous (GM)	No.	02
	b) Adopter double female instantaneous pattern 63 mm (GM)	No.	02
	c) Adopter double male instantaneous pattern 63 mm (GM)	No.	02
20	Nozzle spanner	No.	02

Contd... P/3

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Sl/No	Appliances & Equipments	Unit	Quantity
21	Portable Electric Box Lamp with re-chargeable accumulator	No.	02
22	Hand Lamp (Torch – 4 cell)	No	02
23	Female proof lamp	No	02
24	Self contained Breathing Apparatus with spare cylinder with & tools 30 minutes duration	Set	01
25	Portable Fire Extinguisher Dry Powder	No	01
26	From making Branch FB-4 with Pick up tube	No	01
27	Lowering line 50 mm hmp or terylene 40 m long having two end spliced in and one end with a running noose	No	01
28	Long line – 50 mm manila, 30 m long	No	01
29	Short line – 50 mm manila, 15 m long	No	01
30	Canvas Buckets	No	02
31	First-Aid Box for 10 mm person	No	01
32	Rubber Gloves	Pair	01
33	Asbestos Gauntlets	Pair	01
34	Axe large	No	01
35	Spade	No	01
36	Pick Axe	No	01
37	Crow bar 1.68 mm long	No	01
38	Sledge Hammer 6.5 kg	No	01
39	Carpenter's saw 60 cm	No	01
40	Spanner adjustable, 30 cms length handle	No	01
41	Door breaker	No	01
42	Hydraulic jack 10 tones	No	01
43	Fire Hook	No	01
44	Tool kit consisting of 7 items	No	01
45	Grease Gun 1/2 kg size lever type	No	02

Noapara Mobile fire station

This is situated in Noapara Carshed which is about 100 meters from Noapara Station. The present staff strength of this Firestation is 06 under control Of ASC/Fire/M. Rly which is not strength to running at mobile Fire Wing. It is having one Water Tender Fire Engine No.

WB-03/C-5530 is as below:

Sl/N.	Appliances & Equipments	Unit	Quantity
1	Aluminium Extension Ladder 10.5 mtrs as per IS:4571	No.	01

2	c) 63mm dia Rubberized Fabric Lined Delivery Hose bearing IS:636-1988 (Type A) fitted & binded with 63 mm male/female couplings 22.5 m x 8 lenth = Total 180 meter	Length	08
	d) Controlled Percolating Hose confirming to IS:8423 bearing ISI mark in 30m length fitted with delivery hose couplings= Total 150m	Length	05
3	e) Hose Clamps	No.	25
	f) Hose Bandages	No.	25
	g) Hose Sling	No.	25
	h) Hose Straps	No.	25
4	Suction hose rubber of 100 mm internal diameter in 2.5m length fitted with 100 mm suction hose couplings(2.4 x\$)=10m)	Length	04
5	Three way suction collecting head 100 m size	No.	01
6	Suction wrenches for 100 mm suction coupling	No.	02
7	Suction Strainer 100 mm	No.	01
8	Basket Strainer (Cylinder type)	No.	01
9	Dividing breaching with control instantaneous pattern 63 mm	No.	01
10	Collecting breaching instantaneous pattern 63 mm	No.	01
11	d) Hydrant Stand Pipe 2 way	No.	01
	e) Double female coupling	No.	02
	f) Hydrant connection, 63 mm double armoured hose 1 m long with female instantaneous pattern delivery coupling at both ends	No.	02
		No	
12	Combined key for Hydrant cover & Lower Valve	No.	02
13	Fog nozzle with extension applicator with Fog Head	No.	01
14	Hand Controlled Branch pipe	No.	01
15	Branch pipe universal	No.	01
16	Branch with revolving head	No.	01
17	Branch pipe	No.	04
18	Nozzle of sizes 12mm, 16mm,20mm & 32mm (02 each)	No.	10
19	d) Adopter for 100 mm Suction female screw coupling and 63 mm male instantaneous (GM)	No.	02
	e) Adopter double female instantaneous pattern 63 mm (GM)		02
	f) Adopter double male instantaneous pattern 63 mm (GM)		02
20	Nozzle spanner	No.	02
21	Portable Electric Box Lamp with re- chargeable accumulator	No.	02
22	Hand Lamp (Torch – 4 cell)	No	02
23	Female proof lamp	No	02
24	Self contained Breathing Apparatus with spare cylinder with & tools 30 minutes duration	Set	01
25	Portable Fire Extinguisher Dry Powder	No	01
26	From making Branch FB-4 with Pick up tube	No	01
27	Lowering line 50 mm hmp or terylene 40 m long having two end spliced in and one end with a running noose	No	01

28	Long line – 50 mm manila, 30 m long	No	01
29	Short line – 50 mm manila, 15 m long	No	01
30	Canvas Buckets	No	02
31	First-Aid Box for 10 mm person	No	01
32	Rubber Gloves	Pair	01
33	Asbestos Gauntlets	Pair	01
34	Axe large	No	01
35	Spade	No	01
36	Pick Axe	No	01
37	Crow bar 1.68 mm long	No	01
38	Sledge Hammer 6.5 kg	No	01
39	Carpenter's saw 60 cm	No	01
40	Spanner adjustable, 30 cms length handle	No	01
41	Door breaker	No	01
42	Hydraulic jack 10 tones	No	01
43	Fire Hook	No	01
44	Tool kit consisting of 7 items	No	01
45	Grease Gun 1/2 kg size lever type	No	02

A.15.3 FIRE EXTINGUISHERS AND OTHER SAFETY EQUIPMENTS

All fire extinguishers of Metro Railway are maintained by the Fire Service Wing of the Metro Railway. Others safety equipments are provided at Metro Station and vital installation which is maintained by respective custodian are given below:

Summary of Fire Extinguishers, Helmet with Light, Full Face Mask and Fire Safety Jacket are provided in Metro Railway, Kolkata

S / No	Location	Fire Extinguishers	Full Face Mask	Helmet With light	Fire Safety Jacket Reflective Jacket	B.A. Sets	AFT Water Mist Fire Ext	Fire Bucket With Stand	Hose pipe	Branch pipe
1	Metro Railway Station	514	108	82	240	Nil	07	312/78	288	98
2	Metro Railway Electrical Sub-Station	470	Nil	Nil	Nil	Nil	Nil	136/34	-	-
3	Metro Railway AV	145	Nil	Nil	Nil	Nil	Nil	-	-	-

	Complex									
4	Metro Railway Rake	372	Nil	Nil	Nil	Nil	Nil	-	-	-
5	Metro Railway S&T and OFC Room	173	Nil	Nil	Nil	Nil	Nil	-	-	-
6	Metro Railway Office Building Car Shed, ART Van, Hospital, TTC etc.	345	19	10	50	06	01	75	99	47
7	Fire Stations	14	4	08	10	02	02	08	22	16
Total		2033	185	100	300	08	10	531/112	409	161

Fire safety Equipments i.e. Fire Extinguisher, Full Face Mask, Helmet with Led Light, Delivery Hose pipes, Branch Pipes Water Mist Fire Extinguisher (AFT) and Safety Jacket are provided in Metro Stations

S/No.	Location	Fire Extinguishers			Full Face Mask	Hose Pipe + Hose Boxes	Branch Pipe With nozzle	Fire Bucket+ Stand	AFFT	Helmet With Light	Fire safety Jacket (Reflective Jacket)
		A B C	DCP	CO2							
1	KN AP	Nil	15	06	02	12+6	03	16+4	01	02	10
2	KD MI	05	10	05	02	12+6	05	20+5	-	04	10
3	KB EL	06	06	09	06	12+6	04	16+4	-	04	10
4	KS HY	07	06	08	06	12+6	05	12+3	-	04	10
5	KS HO	09	05	08	06	12+6	04	16+4	-	04	10
6	KG PK	04	01	10	06	12+6	05	16+4	-	04	10
7	KM HR	04	05	11	06	12+6	04	16+4	-	04	10
8	KC EN	03	Nil	17	06	12+6	04	16+4	-	04	10
9	KC WC	06	06	10	06	12+6	04	16+4	-	04	10
10	KES P	Nil	03	21	06	12+6	04	08+2	-	04	10
11	KP KS	05	04	11	06	12+6	03	16+4	-	04	10
12	KM	05	01	14	06	12+6	05	16+4	-	04	10

	DI										
13	KR SD	08	02	10	06	12+6	04	12+3	-	04	10
14	KN BN	06	Nil	14	06	12+6	04	16+4	-	04	10
15	KJP K	07	09	04	06	12+6	04	16+4	-	04	10
16	KK HG	05	07	08	06	12+6	04	16+4	-	04	10
17	KR SB	08	04	06	06	12+6	04	16+4	-	04	10
18	KM UK	03	02	18	02	12+6	03	08+2	-	04	10
19	KN TJ	04	09	12	02	12+6	04	04+1	10	02	10
20	KM SN	04	09	12	02	12+6	05	08+2	10	02	10
21	KG TN	04	09	12	02	12+6	05	08+2	10	02	10
22	KK NG	02	10	13	02	12+6	04	08+2	10	02	10
23	KS KD	02	08	13	02	12+6	04	08+2	10	02	10
24	KK VS	02	08	12	02	12+6	03	08+2	10	02	10
Total		11 1	139	264	108	288+ 144	98	312+ 78	07	82	240

FIRE EXTINGUISHER & FIRE BUCKT WITH STAND IN METRO RAILWAY

ELECTICAL SUB-STATION

S/No.	Location	Fire Extinguisher			Fire Bucket+ Stand
		ABC	DCP	CO2	
1	RSS/TSS/ASS/KNAP	02	33	41	16+4
2	TSS/KMDI	Nil	04	03	4+1
3	TSS/KBEL, ASS Quarter Complex Sub-Stn/KBEL	06	19	10	8+2
4	RSS/KSHY	02	19	18	8+2
5	ASS/KSHO	Nil	04	Nil	Nil
6	TSS/KGPK	Nil	10	03	8+2
7	ASS/KMHR	Nil	05	Nil	Nil
8	TSS/ASS/KCEN	Nil	17	08	8+2
9	TSS/KCWC	Nil	04	04	4+1
10	ASS/KESP	Nil	Nil	12	Nil
11	TSS/KPKS	Nil	Nil	09	4+1
12	RSS/Metro Bhavan	Nil	03	26	8+2
13	ASS/KMDI	Nil	Nil	10	Nil
14	TSS/KRSD	02	05	06	4+1
15	ASS/KNBN	Nil	04	05	4+1
16	RSS/KJPK	Nil	07	07	8+2
17	ASS/KKHG	Nil	02	02	4+1
18	TSS/KRSB	01	03	06	4+1
19	TSS/ASS/KMUK ASS Quarter Complex Sub-Stn/KMUK	05	03	09	8+2

20	TSS/KNTJ	Nil	07	10	4+1
21	RSS/KMSN	02	09	17	8+2
22	ASS/KGTN	Nil	04	06	4+1
23	ASS/KKNG	Nil	05	08	4+1
24	ASS/KSKD	Nil	07	10	4+1
25	TSS/ASS/KKVS	Nil	10	15	8+2
26	TSS/TSMH & Pump	07	05	09	4+1
		27	189	254	136+34

FIRE EXTINGUISHER IN METRO RAILWAY AV COMPLEX

SL/ No.	Location of AV Complex	Fire Extinguisher		
		ABC	DCP	CO2
1	KDMI/Switch Rom & AV Complex	Nil	04	05
2	KBEL/ AV Complex	03	04	13
3	KSHY/AV Complex	Nil	02	08
4	KSHO/AV Complex	Nil	04	02
5	KGPK/AV Complex	Nil	03	02
6	KMHR/AV Complex	Nil	03	01
7	KCEN/AV Complex	Nil	01	04
8	KCWC/AV Complex	Nil	04	02
9	KESP/AV Complex	Nil	06	07
10	KPKS/AV Complex	Nil	02	03
11	KMDI/AV Complex	Nil	02	06
12	KRSD/AV Complex	Nil	05	03
13	KNBN/AV Complex	Nil	05	09
14	KJPK/AV Complex	Nil	Nil	08
15	KKHG/AV Complex	Nil	Nil	10
16	KRSB/AV Complex	Nil	02	04
17	KMUK/AV Complex	Nil	03	05
	Total	03	50	92

FIRE EXTINGUISHER & FIRE SAFETY APPLIANCES INSTALLED IN METRO ART VANS & BATTERY SPL.

SL/ No.	RAKE NO.	Full Face Mask	Helm et with Led Light	Fire safety Jacket (Reflecti ve Jacket)	BA set	NO. OF FIRE EXTINGUISHER			Fire Bucket
						ABC	DCP	CO2	
1	Battery SPL- 1	-	-	-	-	-	04	-	-
2	Battery SPL- 2	-	-	-	-	-	04	-	-
3	Battery SPL- 3	-	-	-	-	-	04	01	-

4	ART VAN-030	-	-	-	-	04	-	-	-
5	ART VAN-040	03	05	15	02	05	-		04
6	ART VAN-050	03	05	15	02	05	-		04
	Total	06	10	30	04	14	12	01	08

FIRE EXTINGUISHER INSTALLED IN METRO RAKES.

SL/ NO.	RAKE NO.	Location	Coach No.	NO. OF FIRE EXTINGUISHER		Full Face mask
				ABC	CO	
1	8N 9/16	KNAP End KKVS End	2009 2016	16	04	02
2	8N 12/14	KNAP End KKVS End	2012 2014	08	12	02
3	8N 6/8	KNAP End KKVS End	2006 2008	08	04	02
4	8N 5/15	KNAP End KKVS End	2005 2015	08	04	02
5	8N 13/17	KNAP End KKVS End	2013 2017	08	04	02
6	8N 7/18	KNAP End KKVS End	2007 2018	08	04	02
7	B2-13/15	KNAP End KKVS End	1013 1015	08	04	02
8	B5-1/3	KNAP End KKVS End	1001 1003	08	04	02
9	B6-17/10	KNAP End KKVS End	1017 1010	08	04	02
10	B8-9/12	KNAP End KKVS End	1009 1012	08	04	02
11	AC - 1/2	KNAP End KKVS End	3001 3002	08	04	02
12	AC - 3/4	KNAP End KKVS End	3003 3004	08	04	02
13	AC - 5/6	KNAP End KKVS End	3005 3006	08	04	02
14	AC - 7/8	KNAP End KKVS End	3007 3008	08	04	02
15	AC - 9/10	KNAP End KKVS End	3009 3010	08	04	02
16	AC - 11/12	KNAP End KKVS End	3011 3012	08	04	02
17	AC - 13/14	KNAP End KKVS End	3013 3014	08	04	02
18	AC - 15/16	KNAP End KKVS End	3015 3016	08	04	02
19	AC - 17/18	KNAP End KKVS End	3017 3018	08	04	02
20	AC - 19/20	KNAP End KKVS End	3019 3020	08	04	02
21	AC - 21/22	KNAP End KKVS End	3021 3022	08	04	02
22	AC -23/24	KNAP End KKVS End	3023 3024	08	04	02
23	AC - 25/26	KNAP End KKVS End	3025 3026	08	04	02
24	MR - 401	KNAP End KKVS End	4601 4602	16	04	02

25	MR – 402	KNAP End KKVS End	4605 4606	16	04	02
26	MR – 403	KNAP End KKVS End	4609 4610	16	04	02
27	MR - 404	KNAP End KKVS End	4613 4614	16	04	02
		Total		256	116	54

FIRE EXTINGUISHER IN METRO RAILWAY PREMISES AND OTHER POINTS

SL No.	Location	Total Extinguisher	No. Of Fire Extinguisher		
			ABC	DCP	CO2
1	KKVS Carshed	12	-	02	10
2	KKVS Crew Control	05	02	03	-
3	KKVS RRI Cabin	06	-	02	04
4	KKVS Carshed Store	07	06	-	01
5	KMUK RRI	06	-	05	01
6	KMUK Power Room	02	-	02	-
7	Kalighat Court	04	-	03	01
8	TSM Hospital	86	38	17	31
9	KRSD Electric Store	05	-	04	01
10	Patipukur Store	02	-	02	-
11	KBEL RPF Post	05	-	05	-
12	Metro Bhawan Building	34	01	33	-
13	Metro Bhawan Centeen	04	-	04	-
14	Metro Bhawan Lift Room	02	-	02	-
15	Metro Bhawan AC Plant	04	-	-	04
16	Metro Bhawan EDP Centre	06	-	-	06
17	Metro Bhawan GM Chamber	01	-	-	01
18	Metro Bhawan Telephone Exchg.	04	-	-	04
19	Metro Bhawan Control Room	03	-	-	03
20	Metro Bhawan CRISS Server Room	02	-	-	02
21	Metro Bhawan Telecom S&T	03	-	-	03
22	KDMI Crew Control	01	-	-	01
23	Noapara Carshed No. 1	16	06	04	06
24	Noapara Carshed No. 2	11	02	05	04
25	Noapara Carshed No. 3	12	-	10	02
26	Noapara Carshed No. 4	11	-	09	02
27	Noapara Carshed No. 5	11	02	06	03
28	Noapara Carshed No. 8	04	-	03	01
29	Noapara Carshed No. 9	05	-	02	03
30	Noapara Carshed No. 13	08	-	02	06
31	Noapara Carshed No. 37	03	-	01	02
32	Noapara Admn. Building	06	01	03	02
33	Noapara S&T Store	05	-	-	05
34	Noapara RPF/Post	05	-	05	-
35	Officers Club Tollygunge	10	-	05	05
36	Belgachia Auditorium	03	-	-	03
37	RPF Barrack KKVS	03	02	-	01
	Total	318	61	140	118

Metro Railway S&T and OFC Room

SL. No.	Location of AV Complex	Fire Extinguisher		
		ABC	DC P	CO 2
1	Noapara Car Shed S&T Signal	Nil	Nil	27
2	KDMI S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	12
3	KBEL S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	08
4	KSHY S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	06
5	KSHO S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	05
6	KGPK S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	07
7	KMHR S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	05
8	Central S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	08
9	KCWC S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	07
10	KESP S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	09
11	KPKS S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	05
12	KMDI S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	09
13	KRSD S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	05
14	KNBN S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	06
15	KJPK S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	06
16	KKHG S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	09
17	KRSB S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	06
18	KMUK S&T, Power Room, Server Room, OFC Room & Relay Room	Nil	Nil	04
19	KNTJ S&T Relay Room, OFC Room	Nil	Nil	03
20	KMSN S&T Relay Room	Nil	Nil	03
21	KGTN S&T Relay Room	Nil	Nil	03
22	KKNG S&T Relay Room	Nil	Nil	03
23	KSKD S&T Relay Room	Nil	Nil	03
24	KKVS S&T RRI Room, S&T Relay Room, OFC Room,	Nil	Nil	14
	Total	Nil	Nil	173

Metro Fire Station

SL. No.	Location.	Full Face Mask	Helmet with Led Light	Fire safety Jacket (Reflective Jacket)	BA set	NO. OF FIRE EXTINGUISHER			Fire Bucket
						ABC	DCP	CO2	
1	TOL Fire STN	2	4	5	1	1	2	4	4
2	NOA Fire STN	2	4	5	1	1	2	4	4

A.15.4.AVAILABILITY OF FIRE HOSE PIPES AT METRO RAILWAY STATION

12 Hose Pipes (15 m Length) and 4 Branch pipe in a box at Each Station each Station from KNOA to KKVS.

A.15.5.WATER PIPE LINE & FIRE HYDRANTS

Each commercially opened permanent Way track of the Metro Railway System between Mahanayak Uttam Kumar & Dum Dun Junction is provided with a water pipe line running parallel to it with hydrants at intervals of about 100 m for fire fighting. For double line tracks, the hydrant is located in a staggered manner so that the distance from one hydrant to another is about 50m. From Mahanayak Uttam Kumar to Kavi Subhas, fire hydrant pipe line is laid along the parapet wall of viaduct of DN line with fire hydrants at an interval of 50m. These fire hydrants are maintained by the Engineering Department. The fire hydrant water pipe lines are connected to Overhead Tanks provided at different Station. Availability of water in the Overhead Tanks & the fire hydrant water pipe lines are ensured at all times.

The particulars of fire hydrants from Kavi Subhas Car Shed to Noapara Car Shed (including Tapan Sinha Metro Hospital, Mahanayak Uttam Kumar Car Shed & Metro Bhawan) are as under:-

Sl/ No	Location	No. Of Fire Hydrants
1	Kavi Subhash Carshed	04
2	Kavi Subhash Station	05
3	Kavi Subhash To Shahid Khudiram viaduct	28
4	Shahid Khudiram Station	16
5	Shahid Khudiram to Kavi Nazrul viaduct	21
6	Kavi Nazrul Station	16
7	Kavi Nazrul to Gitanjali viaduct	23
8	Gitanjali Station	16
9	Gitanjali to Masterda Surya Sen Viaduct	16
10	Masterda Surya Sen Station	11
11	Masterda Surya Sen to Netaji Viaduct	31
12	Netaji Station	11
13	Netaji to Mahanayak Uttam Kumar Ramp	24
14	Mahanayak Uttam Kumar Carshed	08
15	Mahanayak Uttam Kumar Station	08
16	Mahanayak Uttam Kumar to Rabindra Sarobar Tunnel	22
17	Rabindra Sarobar Station	07
18	Rabindra Sarobar to Kalighat Tunnel	18
19	Kalighat Station	11
20	Kalighat to Jatindas Park Tunnel	07
21	Jatindas Park Station	09
22	Jatindas Park to Netaji Bhavan Tunnel	14
23	Netaji Bhavan Station	09
24	Netaji Bhavan to Tunnel	14
25	Rabindra Sadan Station	06
26	Rabindra Sadan to Maidan Tunnel	15
27	Maidan Station	07
28	Maidan to Park Street Tunnel	08
29	Park Street Station	08

30	Park Street to Esplanade Tunnel	14
31	Esplanade Station	07
32	Esplanade to Chandni Chawk Tunnel	16
33	Chandni Chawk Station	08
34	Chandni Chawk to Central Tunnel	08
35	Central Station	14
36	Central to Mahatma Gandhi Road Tunnel	19
37	Mahatma Gandhi Road Station	12
38	Mahatma Gandhi Road to Girish Park Tunnel	11
39	Girish Park Station	11
40	Girish Park to Tunnel	14
41	Sovabazar Station	11
42	Sovabazar to Shymbazar Tunnel	15
43	Shymbazar Station	08
44	Shymbazar to Belgachia Tunnel	27
45	Belgachia Station	10
46	Belgachia to Dum Dum Tunnel / Elevated portion	49
47	Dum Dum Station	10
48	Dum Dum to End of underpass	18
49	Noapara Car shed	35
50	Metro Bhawan	26
51	Tapan sinha Hospital	24
Total	760 Nos.	

A.15.6.WATER TANKS FOR FIRE FIGHTING

Water tanks are provided at each station for ensuring that the water pipe lines feeding the fire hydrants are always full of water.

The number of water tanks and the capacity of each are as indicated below:-

S/No	Location	No of Water Tanks	Capacity
1	KKVS Carshed	01 No.	1.50 Lakh ltr.
2	KKVS Station	01 No.	1.50 Lakh ltr.
3	KSKD Station	01 No.	20,000 ltr. 1.00 Lakh ltr. (U/G)
4	KKNZ Station	01 No.	20,000 ltr. 1.00 Lakh ltr. (U/G)
5	KGTD Station	01 No.	20,000 ltr. 1.00 Lakh ltr. (U/G)
6	KMSN Station	01 No.	20,000 ltr.

			1.00 Lakh ltr. (U/G)
7	KNTJ Station	01 No.	20,000 ltr. 1.00 Lakh ltr. (U/G)
8	KMUK Carshed	01 No.	1.30 Lakh ltr.
9	KMUK Station	01 No.	1.30 Lakh ltr.
10	KRSB Station	01 No.	2.10 Lakh ltr.
11	KKHG Station	01 No.	1.30 Lakh ltr.
12	KJPK Station	01 No.	1.30 Lakh ltr.
13	KNBN Station	01 No.	1.60 Lakh ltr.
14	KRSD Station	01 No.	1.30 Lakh ltr.
15	KMDI Station	Nil	Nil
16	KPSK Station	01 No.	1.30 Lakh ltr.
17	KESP Station	01 No.	1.30 Lakh ltr.
18	KCWC Station	01 No.	1.90 Lakh ltr.
19	KCEN Station	01 No.	1.99 Lakh ltr.
20	KMHR Station	01 No.	2.00 Lakh ltr.
21	KGPK Station	01 No.	2.13 Lakh ltr.
22	KGPK-KSHO Mid Point	01 No.	1.60 Lakh ltr.
23	KSHO Station	01 No.	1.90 Lakh ltr.
24	KSHY Station	02 No.	2.04 Lakh ltr. 2.65 Lakh ltr.
25	KBEL Station	01 No.	2.70 Lakh ltr.
26	KDMI Station	02 No.	1.36 Lakh ltr. 1.65 Lakh ltr.
27	KNOA Car Shed	02 No.	4.56 Lakh ltr. 4.56 Lakh ltr.

A.15.7PUMP PARTICULARS OF METRO RAILWAY

Location	Tube Well pumps With capacity	Drainage pumps With capacity	Mid-point pumps with capacity
Kavi Subhash Carshed	7.5 HP (1 No)		
Kavi Subhash Station	7.5 HP (1 No)		
Shahid Khudiram	7.5 HP (1 No)		
Kavi Nazrul	7.5 HP (1 No)		
Gitanjali	7.5 HP (1 No)		
Masterda Surya Sen			
Netaji	7.5 HP (1 No)		
Tapan Sinha Metro Hospital	7.5 HP (1 No)		
Mahanayak Uttam Kumar	12.5 HP (1 No) 7.50 HP (1 No) 7.50 HP (1		

	No) 5 HP (1 No)		
Rabindra Sarovar	7.5 HP (1 No)		
Kalighat	7.5 HP (1 No)		
Jatin Das Park	12.5 HP (1 No)		
Netaji Bhawan	7.5 HP (1 No)		
Rabindra sadan	7.5 HP (1 No)		
Maidan	Nil		
Park Street	7.5 HP (1 No)		
Esplanade	7.5 HP (1 No)		
Chandni Chowk	5 HP (1 No)		
Central	7.5 HP (1 No)		
Mahatma Gandhi Road	7.5 HP (1 No)		
Girish Park	7.5 HP (1 No)		
KGPK-KSHO Mid Point	7.5 HP (1 No)		
Sova Bazar	7.5 HP (1 No)		
Shyam Bazar	7.5 HP (1 No)		
Belgachia	7.5 HP (2 No)		
Dum Dum	7.5 HP (3 No)		
Noapara	7.5 HP (4 No)		

A.16 List of Petrol Pumps in Kolkata

Sl No.	Ward No	Trade Name	Address	Trade Nature
1	1	JAL H INDOREWALLA & SONS	33/2, BARRACKPORE TRUNK ROAD 700002	PETROL PUMP WITHOUT HYDRAULIC MACHINE
2	1	FRIENDS AUTO SERVICE	47/1 BARRACKPORE TRUNK ROAD 700050	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
3	1	PUGALIA AUTO MOBILES	36B COSSIPORE ROAD 700002	PETROL PUMP WITHOUT HYDRAULIC MACHINE
4	1	RAJESH AUTO SERVICE	95/1/3A COSSIPORE ROAD 700002	PETROL PUMP WITHOUT HYDRAULIC MACHINE
5	2	GUJRAL SERVICE STATION	56/2B BARRACKPORE TRUNK ROAD 700050	PETROL PUMP WITHOUT HYDRAULIC MACHINE
6	3	GOPAL AUTO SERVICE	38B KSHUDIRAM BOSE SARANI 700037	PETROL PUMP WITH HYDRAULIC MACHINE(S)
7	3	DRIVE IN	63/2B KSHUDIRAM BOSE SARANI 700037	PETROL PUMP WITH HYDRAULIC MACHINE(S) LUBRICATING OIL, PETROL, DIESEL
8	3	BELGACHIA SERVICE STATION	64/1/1 KSHUDIRAM BOSE SARANI 700037	PETROL PUMP WITH HYDRAULIC MACHINE(S) - HYDRAULIC MACHINE SELLER

				LUBRIOIL
9	4	DELHI SERVICE STATION	59B, BARRACKPORE TRUNK ROAD 700002	PETROL PUMP WITH HYDRAULIC MACHINE(S) - LUBRICATING OIL
10	4	PAIKPARA SERVICE STATION	61/2, BARRACKPORE TRUNK ROAD 700002	PETROL PUMP WITHOUT HYDRAULIC MACHINE(S) -
11	6	SARAOGI SERVICE STATION	11/5, COSSIPORE ROAD 700002	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
12	6	COSSIPORE SERVICE STATION	22B LOCKGATE ROAD 700002	PETROL PUMP WITH HYDRAULIC MACHINE(S) - LUBRICATING OIL
13	7	BAGHBAZAR FILLING STATION	3 MOHIT MOITRA SARANI 700003	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
14	7	SURJYA FILLING STATION	P33 & 34 KSHIRODE VIDYAVINODE AVENUE 700003	PETROL PUMP WITHOUT HYDRAULIC MACHINE
15	7	LUXMI NARAYAN SERVICE STATION	P38 KSHIRODE VIDYAVINODE AVENUE 700003	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
16	8	SUPER AVENUE SERVICE STATION	80/1 BHUPENDRA BASU AVENUE 700004	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
17	9	DAGA AUTOMOTIVE SERVICES	69 JATINDRA MOHAN AVENUE 700005	PETROL PUMP WITH HYDRAULIC MACHINE(S) PETROL PUMP
18	10	ENERGY & SPARES	127 BIDHAN SARANI 700004	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
19	11	MANASA SREE AUTO CRAFTS	182B ACHARYA PRAFULLA CHANDRA ROAD 700004	PETROL PUMP WITH HYDRAULIC MACHINE(S)
20	12	THE INDIA TRADING CO.	1 ULTADANGA ROAD 700004	PETROL PUMP WITH HYDRAULIC MACHINE(S) - WITH AUTO LPG DISPENSING
21	17	RIKTA AUTO SERVICE	151 BIDHAN SARANI 700006	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
22	17	B.D.AUTO CORNER	62 JATINDRA MOHAN AVENUE 700005	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
23	18	JATADHARI SERVICE STATION	17/1 JATINDRA MOHAN AVENUE 700006	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
24	18	CENTRAL SERVICE STATION	27 JATINDRA MOHAN AVENUE 700006	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
25	21	THE HINDUSTHAN MOTOR WORKS	52 KALI KRISHNA TAGORE STREET 700007	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
26	24	BINOD SERVICE STATION	2 PRASANNA KUMAR TAGORE STREET 700006	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
27	25	IMPERIAL PETROL SERVICE STATION	3 VIVEKANANDA ROAD 700007	PETROL PUMP WITH HYDRAULIC MACHINE(S) - WITH AUTO LPG DISPENSING
28	26	MOTOR FUEL & STORES PVT LTD	17 BEADON STREET 700006	PETROL PUMP WITH HYDRAULIC MACHINE(S)
29	27	HIRJEE AUTO CENTRE	120/2 ACHARYA PRAFULLA CHANDRA ROAD 700009	PETROL PUMP WITH HYDRAULIC MACHINE(S) - AUTO LPG DISPENSING

30	27	MANICKTALA SERVICE STATION	75B AMHERST ROW 700009	PETROL PUMP WITH HYDRAULIC MACHINE(S)
31	27	VIVEKAN AND MOTOR ACCESSORIES CO.	128/1 VIVEKANANDA ROAD 700006	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
32	31	SUPERWAY SERVICE STATION	P-327 CIT SCHEME VI-M 700054	PETROL PUMP WITH HYDRAULIC MACHINE(S) - WITH AUTO LPG DISPENSING
33	31	HINDUSTAN PETROLEUM CORPORATION LIMITED	P20 SWAMI SWARUPANANDA SARANI 700054	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
34	32	ENCLAVE SERVICE STATION	91A BAGMARI ROAD 700054	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
35	33	DELUXE SERVICE STATION	110 HEM CHANDRA NASKAR ROAD 700010	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
36	33	BHARAT PETROLIUM CORPORATION LTD	73D MOULANA ABUL KALAM AZAD SARANI 700054	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
37	34	AUTO SUPER SERVICE	9/1/1A ABINASH CHANDRA BANERJEE LANE 700010	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
38	34	R N SINGH & SONS	16B DR SURESH CHANDRA BANERJEE ROAD 700010	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
39	34	V I P SUPER SERVICE STATION	9 SURAH EAST ROAD 700010	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
40	36	HIND SERVICE STATION	137A BELIAGHATA ROAD 700015	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
41	36	JAGADISH AUTO SERVICE	8/1 BELIAGHATA ROAD 700015	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
42	37	PROVA SERVICE STATION	37/1 ACHARYA PRAFULLA CHANDRA ROAD 700009	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
43	37	BOSE SERVICE STATION	85 ACHARYA PRAFULLA CHANDRA ROAD 700009	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
44	37	CAR CORNER	33/1B RAJA RAMMOHAN SARANI 700009	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
45	38	MODERN SERVICE STATION	93/3/1A ACHARYA PRAFULLA CHANDRA ROAD 700009	PETROL PUMP WITHOUT HYDRAULIC MACHINE
46	41	PREM SERVICE STATION	116B RABINDRA SARANI 700007	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
47	43	INDIA MOTOR HOUSE	7 TARA CHAND DUTT STREET 700073	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
48	45	JAMECO AGENCIES PVT LTD	8 CHURCH LANE 700001	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
49	45	EXCHANGE	3 INDIA EXCHANGE PLACE 700001	PETROL PUMP WITH HYDRAULIC MACHINE(S)
50	45	K C DAW & BROS PVT LTD	247/8 STRAND BANK ROAD 700001	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
51	46	GANESH DAS	1, CHITTARANJAN	PETROL PUMP WITHOUT

		RAMGOPAL	AVENUE 700072	HYDRAULIC MACHINE -
52	46	CENTRAL SERVICES	3 & 5 GANESH CHANDRA AVENUE 700013	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
53	51	CENTRAL CALCUTTA MOTOR STORES	88/1A RAFI AHMED KIDWAI ROAD 700013	PETROL PUMP WITH HYDRAULIC MACHINE(S) - CAR SERVICING
54	54	SRI RAMKRISHNA SERVICE STATION	160 ACHARYA JAGADISH BOSE ROAD 700014	PETROL PUMP WITH HYDRAULIC MACHINE(S)
55	55	GANERIWALA SUPER SERVICE	P-13 CIT SCHEME LV 700014	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
56	55	SUPER STAR SERVICE STATION	P9 CIT SCHEME LV 700014	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
57	57	LAKSHMAN TRADING COMPANY	7/2A BELIAGHATA ROAD 700015	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
58	58	SWATI AUTO SERVICE	37/1 CHRISTOPHER ROAD 700046	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
59	59	AUTO GAS DISTRIBUTORS	120 DR SUNDARI MOHAN AVENUE 700014	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
60	61	AUTO FUEL & SERVICES	87A PARK STREET 700016	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
61	61	PARK STREET MOTORS	93 PARK STREET 700016	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
62	62	ORIENT PETROL SERVICE	75/1 ACHARYA JAGADISH BOSE ROAD 700014	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
63	63	FILL – IN CENTRE	12B ABANINDRA NATH THAKUR SARANI 700017	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
64	63	CAMAC	2E ABANINDRA NATH THAKUR SARANI 700016	PETROL PUMP WITH HYDRAULIC MACHINE(S) - SERVICING OF AUTO CAR
65	63	CAMAC AUTO SERVICE PVT LTD	3D ABANINDRA NATH THAKUR SARANI 700016	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
66	63	HALWASIYA PVT LTD	46/1A CHOWRINGHEE ROAD 700071	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
67	63	PARK AUTOBOMILES	57 PARK STREET 700016	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
68	63	THE INDIA TRADING CO.	69 PARK STREET 700016	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
69	63	RAWDON AUTO CENTRE	10B SAROJINI NAIDU SARANI 700017	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
70	64	HINDUSTHAN PETROLEUM CORPORATION LTD	208/1A ACHARYA JAGADISH BOSE ROAD 700017	PETROL PUMP WITH HYDRAULIC MACHINE(S) - AUTO CARREPAIRER
71	64	AUTO-FILLIN	32 CIRCUS AVENUE 700017	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
72	64	A.I.S. MAPARA PVT. LTD.	1 SYED AMIR ALI AVENUE 700017	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
73	65	RAJANIKLAL SALES PVT LTD	7 ASHUTOSH CHOWDHURY AVENUE 700019	PETROL PUMP WITH HYDRAULIC MACHINE -

74	67	INDIAN OIL CORPORATION LTD	39 BOSEPUKUR ROAD 700042	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
75	68	H P MITRA & SONS	228A RASH BEHARI AVENUE 700019	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
76	69	BALLYGUNGE SERVICE STATION	225A ACHARYA JAGADISH BOSE ROAD 700020	PETROL PUMP WITH HYDRAULIC MACHINE(S) - LUBRICATING OIL
77	69	VIJAY SERVICE STATION	19 BALLYGUNGE CIRCULAR ROAD 700019	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
78	69	ENGINEERS SERVICE STATION	16B GURUSADAY ROAD 700019	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
79	69	AUTO SERVICES	22A HAZRA ROAD 700029	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
80	69	AUTUMOBILE ASSOCIATION OF EASTERN INDIA	13/2 PRAMATHES BARUA SARANI 700019	PETROL PUMP WITH HYDRAULIC MACHINE(S) - LUBRICATING OIL & SERVICE STATION
81	69	STANDARD VULCANIZING CORPORATION	1B PRAMATHES BARUA SARANI 700019	PETROL PUMP WITH HYDRAULIC MACHINE(S) - TYRES,LUB OIL,BATTERIES WITH SERVICE
82	69	A S SERVICE STATION	72/1A SARAT BOSE ROAD 700025	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
83	69	MOONLIGHT SERVICE STATION	98 SARAT BOSE ROAD 700026	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
84	70	INDIA TRADING OIL CO	236A ACHARYA JAGADISH BOSE ROAD 700020	PETROL PUMP WITHOUT HYDRAULIC MACHINE
85	70	MANGALAM SERVICE STATION	240A ACHARYYA JAGADISH BOSE ROAD 700020	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
86	70	SINGH SERVICE STATION	11A ASHUTOSH MUKHERJEE ROAD 700020	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
87	70	UNITED SERVICE STATION	1C ASHUTOSH MUKHERJEE ROAD 700020	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
88	70	DAGA AUTO SERVICE PRIVATE LTD	7/1 ASHUTOSH MUKHERJEE ROAD 700020	PETROL PUMP WITH HYDRAULIC MACHINE(S) - SERVICE STATION
89	70	CHAKRABERIA ENERGY	0, CHAKRABERE ROAD SOUTH (22/1E, CHAKRABERIA ROAD) 700025	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
90	70	SREE AUTOMOBILE STORES	15/1 SARAT BOSE ROAD 700020	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
91	70	LANSDOWNE SERVICE STATION	25A SARA BOSE ROAD 700020	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
92	71	HARISH MOTORS	52B HARISH MUKHERJEE ROAD BHOWANIPUR 700025	PETROL PUMP WITHOUT HYDRAULIC MACHINE -

93	72	SHARMA SERVICE STATION	29A RAMESH MITTER ROAD 700025	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
94	72	BHAWANIPUR AUTO CENTRE	49, SHYAMAPROSAD MUKHERJEE ROAD 700026	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
95	73	TEMPLE MOTORS	115B HAZRA ROAD 700026	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
96	73	KALIGHAT SERVICE STATION	127A HAZRA ROAD 700026	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
97	73	RUSSA ROAD SERVICE STATION	30 SHYAMAPROSAD MUKHERJEE ROAD 700025	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
98	74	ALIPORE SERVICE CENTRE	17/1B ALIPORE ROAD 700027	PETROL PUMP WITH HYDRAULIC MACHINE(S)
99	74	BP ALIPORE	1B ALIPORE ROAD 700027	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
100	74	WOODLANDS SERVICE STATION	8/1 ALIPORE ROAD 700027	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
101	74	SHILPOSHRI FILLING STATION	18 CHETLA HAT ROAD 700027	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
102	74	COUNCIL SERVICE STATION	11/1 DIAMOND HARBOUR ROAD 700027	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
103	74	AUTO FUEL & SERVICES-1	2/2 JUDGES COURT ROAD MOMINEPORE MORE 700027	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
104	76	BP KHIDDERPORE	99A KARL MARX SARANEE 700023	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
105	77	THE NEW GLOBE VULCANIZING CO.	36A KARL MARX SARANI 700023	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
106	78	INDIAN OIL CORPORATION LIMITED	57/1 DIAMOND HARBOUR ROAD 700023	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
107	79	KUWAR OIL FIL	0, DOCK EASTERN BOUNDARY ROAD PLATE NO./ D709, 700023	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
108	79	GHOSH CHATTERJEE & CO.PVT LTD	8 HIDE ROAD 700088	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
109	80	INDIAN OIL CORPORATION LTD. (MD)	0 GARDEN REACH ROAD PLATE NO-D833 BORKELANE CONNETING C.G.R. ROAD 700043	COMPANY (DEALING NON FOOD ITEMS) -PETROL PUMP WITHOUT HYDRAULIC MACHINE
110	80	BP GARDEN REACH	BHARAT PETROLEUM CORPORATION LTD.	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
111	80	MA KALI SERVICE STATION	77B GARDEN REACH ROAD 700043	PETROL PUMP WITH HYDRAULIC MACHINE -
112	80	RAMNAGAR SERVICE STATION	1 HARI MOHAN GHOSH ROAD 700024	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
113	80	SUPER SERVICE	3 NIMAK MAHAL ROAD	PETROL PUMP WITH

		STATION	700043	HYDRAULIC MACHINE(S) -
114	80	CITY OF JOY FUEL STATION	D-167 SONARPUR ROAD PAHARPUR 700088	PETROL PUMP WITHOUT HYDRAULIC MACHINE - WITH AUTO L.P.G.
115	80	INDIAN OIL CORPORATION LTD. (M K T DIV.)	0 TARA TALA ROAD PLOT NOD832) OPPOSITE NATURE PARK 700088	COMPANY (DEALING NON FOOD ITEMS) - PETROL PUMP WITHOUT HYDRAULIC MACHINE
116	80	METROPOLITAN TRANSPORT CO.	16 TARA TALA ROAD 700088	PETROL PUMP WITH HYDRAULIC MACHINE(S) - LUBRICATING OIL
117	81	BINNU ENTERPRISES	BANKIM MUKHERJEE SARANI 553, BLOCK N, NEW ALIPORE, 700053	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
118	81	GASOLINE STATION	0 BANKIM MUKHERJEE SARANI P-540 BLOCK N NEW ALIPORE 700053	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
119	81	LUXMI SERVICE STATION	0 RAMTANU LAHIRI SARANI PLOT NO-46 BLOCK-C NEW ALIPORE	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
120	82	TRIO SERVICE CENTRE	29/3A CHETLA CENTRAL ROAD 700027	PETROL PUMP WITH HYDRAULIC MACHINE(S) - PETROL, DIESEL & LUB OIL SELLER
121	84	MAHAKALI SERVICE STATION	77 SHYAMAPROSAD MUKHERJEE ROAD 700026	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
122	85	DIESEL AUTOMOBILE CENTRE	62/1A HAZRA ROAD 700019	WORKSHOP OF NON FOOD ITEMS - AUTOMOBILE SERVICING WITH HYDRAULIC MACHINE
123	85	MOTOR FUEL & STORES PVT LTD	152A SARAT BOSE ROAD 700029	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
124	85	BEST FUELS	7 SEVAK BAIDYA STREET 700029	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
125	86	GOLPARK SERVICE STATION	57/1A PURNA DAS ROAD 700029	PETROL PUMP WITH HYDRAULIC MACHINE(S)
126	87	LAKE AUTO SERVICE	99 DR MEGHNAD SAHA SARANI 700029	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
127	87	SUNBEAM SERVICE STATION	213 SARAT BOSE ROAD 700029	PETROL PUMP WITH HYDRAULIC MACHINE(S)
128	87	PEARL AUTO SERVICE	141 SHYAMA PROSAD MUKHERJEE ROAD 700026	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
129	88	GOPAL SERVICE STATION	17/6 SHAHNAGAR ROAD 700026	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
130	88	AUTO CARE CENTRE	200A/1 SHYAMAPROSAD MUKHERJEE ROAD 700026	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
131	90	CAR- FIL	170 SARAT BOSE ROAD 700029	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
132	92	AUTO LIFE	40/1 GARIAHAT ROAD (SOUTH) 700031	PETROL PUMP WITH HYDRAULIC MACHINE(S)
133	93	UMA SERVICE	1/1/1A GARIAHAT ROAD	PETROL PUMP WITH

		STATION	700068	HYDRAULIC MACHINE(S) -
134	93	PRINCE SERVICE STATION	377B PRINCE ANWAR SHAH ROAD 700068	PETROL PUMP WITHOUT HYDRAULIC MACHINE - AUTO LPG DEALER
135	96	INDIAN OIL CORPORATION LIMITED (COCO)	30 RAJA SUBODH CHANDRA MULLICK ROAD 700032	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
136	97	TOLLYGUNGE SERVICE STATION	1A NETAJI SUBHAS CHANDRA BOSE ROAD 700040	PETROL PUMP WITH HYDRAULIC MACHINE(S)
137	98	START WELL	178 NETAJI SUBHAS CHANDRA BOSE ROAD 700040	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
138	98	DEB AUTO SERVICE	188/2 NETAJI SUBHAS CHANDRA BOSE ROAD 700040	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
139	100	DEBI SERVICE STATION	362A NETAJI SUBHAS CHANDRA BOSE ROAD 700047	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
140	100	DIGBIJOY ENERGY	98 RAJA SUBODH CHANDRA MULLICK ROAD 700047	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
141	101	INDIAN OIL CORPORATION LTD	3 GAURANGA MANDIR ROAD 700086	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
142	106	LOKNATH SERVICE STATION	5A BEHARI MONDAL ROAD 700078	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
143	106	CAFE FUEL	131/A KALIKAPUR ROAD 700078	PETROL PUMP WITHOUT HYDRAULIC MACHINE - DEALER OF MS/HSD OFBPCL.
144	107	TARUN SERVICE STATION	3 KASBA ROAD MAILING 2 KASBA ROAD 700078	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
145	107	BYPASS SERVICES	252 RAJDANGA MAIN ROAD MAILING 3B RASHBEHARI AVE CONNECTOR 700078	PETROL PUMP WITH HYDRAULIC MACHINE(S) - AUTO LPG SELLER
146	107	FUEL POINT	46 SANTI PALLY 46 SANTI PALLY, P.S.- KASBA 700107	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
147	110	SUNNY FUEL SERVICES	BAISNABGHATA BAISNABGHATA PATULI E.M. BYEPASS 700094	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
148	110	SHANTANU CARFIL	1/C-10 B P TOWNSHIP BLOCK-A 700084	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
149	117	RAIBARELY SERVICE STATION	33 TOLLYGUNGE CIRCULAR ROAD 700053	PETROL PUMP WITHOUT HYDRAULIC MACHINE
150	118	LILA SERVICE STATION	62, BUROSHIBTOLA MAIN ROAD 700038	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
151	119	SATKARTAR SERVICE STATION	69/1 DIAMOND HARBOUR ROAD 700038	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
152	120	ANUPAM	555 DIAMOND	PETROL PUMP WITH

			HARBOUR ROAD 700034	HYDRAULIC MACHINE(S)
153	121	DIAMOND SERVICE	709A DIAMOND HARBOUR ROAD 700034	PETROL PUMP WITH HYDRAULIC MACHINE(S) - (3 HYDROLIC
154	123	SAKHER BAZAR SERVICE STATION	94, DIAMOND HARBOUR ROAD 700008	PETROL PUMP WITHOUT HYDRAULIC MACHINE
155	124	SREEMA SERVICE STATION	11A DIAMOND HARBOUR ROAD MAILING 109 DIAMOND HARBOUR ROAD 700008	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
156	124	THAKURPUKUR AUTO CENTRE	436 DIAMOND HARBOUR ROAD MAILING 436/802 DIAMOND HARBOUR ROAD 700063	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
157	125	SOUTHEND OIL AGENCY	160/1 DIAMOND HARBOUR ROAD MAILING 122 DIAMOND HARBOUR ROAD 700063	PETROL PUMP WITH HYDRAULIC MACHINE(S) -
158	128	G.Q. MONDAL SERVICE STATION.	620, DIAMOND HARBOUR ROAD BIREN ROY ROAD(W) 700034	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
159	128	JEET SERVICE STATION	545 HO-CHIMINH-SARANI 700061	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
160	134	GARDENREACH AUTOMOBILE SERVICE	E-1/1 CIRCULAR GARDEN REACH ROAD 700024	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
161	134	MD.SHARIF SERVICE STATION	F-67 GARDEN REACH ROAD 700024	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
162	139	SHUKLA AUTO FUELS	V-84 S A FAROOQUIE ROAD 700018	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
163		GILL SERVICE STATION	Z3-151 DR ABDUL KHABIR ROAD 700044	PETROL PUMP WITHOUT HYDRAULIC MACHINE -
164		AUTO FILLERS	99 MAHATMA GANDHI ROAD PH-9830832298 700104	PETROL PUMP WITHOUT HYDRAULIC MACHINE -

A.17 Alternative Communication Plan in Case of Failure of Mobile Network

Under KMC there are 41 Wireless Sets and 5 Walkie talkie located at different parts of KMC area. The detailed list is given below:

Sl No.	List of Wireless sets at different location under Kolkata Municipal Corporation	
1	Ambedkar	GS Khan Road, Near Ambedkar bridge, Ward-66
2	Ballygunge Drainage Pumping Station	25 Tiljala Road, Kol-60, Ward-65
3	Behala Flying Club	Behala Airport Road, Kol-60, Ward-131
4	Behala Node C	Behala Kolkata
5	Belgachia Drainage Pumping Station	Nilmoni Mitra Row, Kol-02, Ward-05
6	Birpara Drainage Pumping Station	14/Beerpara Lane, Kol-30, ward-04
7	Burosibtala Pumping Station	Kolkata
8	Chalkgoria	Buderhat , Nayabad, Garia, Kol-94, ward-109

9	Chetla Drainage Pumping Station	125, Chetla Road, kol-53, ward-82
10	Chingrighata	4/1, Rani Rashmoni Garden lane, Kol-15, ward-57
11	Chowbagha Pumping Station	Kolkata
12	Control room CMO	5, S.N Banerjee Road, Kol-13
13	CPT Canal	D.h Road, near Taratala More, Kol-34, ward-79
14	DG (Civil) Residential	Gariahat Municipal Market, Kolkata-56
15	DG /(Drainage) Residential	Tegharia, Kol-56
16	Dhakheti Pumping Station	Kol-56
17	Dhapa Lock Drainage Pumping Station	Canal south road, Kol-105, ward-57
18	Duttabagan Drainage Pumping Station	63/2B, Belgachia Road, Kol-37, ward-03
19	EE-1 minor	Em Bypass
20	Jagannath Ghat	Stand Bank Road, Beside Ganga, ward-22
21	Jhinjira Bazar Drainage Pumping Station	Jinjira bazar Taratala Road, Kol-88, ward-131
22	Jodhpur Drainage Pumping Station	1/C gariahat Road, Kol-68, Ward-93
23	Kalighat Drainage Pumping Station	17, Judges Court Road, Alipore Jail, ward-74
24	Kamdahari	Purba para, Kamdahari, Garia, ward-111
25	Kasba	Near Nilachal Housing Complex Kasba, Ward-107
26	Keorapukur MPS	Opposite to 180/3 MG Road, beside Purba apartment, Kol-104
27	Kulia Drainage Pumping Station	6/1 Mathur Babu Lane, Kol-15, ward-57
28	Maniktala Drainage Pumping Station	64 Raja Dinendra street, Kol-06, ward-15
29	Mayor Residential	
30	Mayors' Office	5, S.N banerjee Road, Kol-13
31	MMIC Drainage office	5, S.N banerjee Road, Kol-13
32	MMIC Drainage Residential	
33	Momenpur Drainage Pumping Station	9, Mominpur Road, Gyan Ghosh Polytecnic, Kol-23, Ward-78
34	Monikhal Pumping Station	Kolkata
35	Nimak Mahal Drainage Pumping Station	Circular Garden Reach Road
36	Pagladanga	1, Pagla Danga, Kol-15, Ward-58
37	Palmer Bazar Drainage Pumping Station	6/1 Palmer Bridge Road, Ward-55
38	South Avenue	Southern Avenue, rabindra Sarobar tadium, (Ward-87)
39	Thanthania Drainage Pumping Station	57/1 Raja Rammohan Sarani, Kol-9, Ward-38
40	Topsia Drainage Pumping Station	72/1, Topsia Road, (South), Kol-46
41	Ultadanga Drainage Pumping Station	4, Bidhan Shisu Sarani, Kol-54
	Walkie Talkie	
1	DG (Civil) Office	5, S.N banerjee Road, Kol-13
2	DG (Drainage) Office	5, S.N banerjee Road, Kol-13
3	Mayors' Office	5, S.N banerjee Road, Kol-13
4	MMIC Drainage Office	5, S.N banerjee Road, Kol-13
5	Municipal Commissioner	5, S.N banerjee Road, Kol-13

The wireless sets of Kolkata Municipal Corporation are only used to communicate between KMC officials mainly during monsoon seasons.

Kolkata police is presently using 'TETRA' and VHF mode of wireless communication system throuout the entire jurisdiction of Kolkata Police. Out of 9 DRO's of Kolkata Police , 06 Dro's is presently using 'TETRA Communication System' and the rest 03 DRO's is presenty using 'VHF Communication'. 'TETRA Communication System' has its own separate network where chances of failure are less as it has its own site, redundancy system and disaster recovery. In case of failure of lease line, all TETRA BTS's will function in local trunking mode.

VHF Communication is used in 03 DRO's and 25 Traffic Guards in Kolkata Police. Kolkata Police is not holding any HF or VHF sets of long ranges. In case of emergency like disaster, Kolkata police is capable to establish local Wireless Communication set up within a short period of time.

Kolkata police is also using these communication systems to communicate only with the police department. A common frequency can be established and shared among the controlling authorities of Disaster management (like KMC, Fire, Police, Health) so that inter departmental communication can be done during any emergency.

A.18 List of Relief Godowns

Zonal Name	Godown Name	Godown No.	Area (Sq. Ft.)
Kolkata (Insured)	Sealdah Godown	6	5000
		8	3600
		9	3182
	Cossipore Godown	32	7680
		34	7680
		36	7680
		38	7680
		48	7419.75
		66	8167.38
		67	8400
		69	8400
71	6113.25		

* These godowns are controlled by Department of Disaster Management and Civil defence, Govt. of West Bengal

A.19. Cyclole/ Flood Shelter (not officially tagged for evacuation)

Flood cyclone shelter mentioned here are not officially tagged for evacuation during flood/cyclone, however these are Govt. /Govt. aided/ KMC properties located within respective wards which could be utilised during disasters.

Borough	Ward No. (Waterlogging Prone)	Location of flood shelter/cyclone shelter tagged for evacuation
Borough I	1	Uttarayan Community Hall
	2	Utsav Bhavan Community Hall

	3	KMCP School and other Government aided School
	4	Pubali Community Hall
	5	Sonartari Community Hall
Borough II	15	Community Hall of KMC
	16	Community Hall of KMC
	17	Community Hall of KMC
Borough III	14	Milan Kunj community Hall, B.P.S
	29	Deshabandhu School
	30	Kanikalay community Hall
	31	New National High School and KMCP school
	32	P.K.C.C Shikshaniketan School and Bagmari manicktala high school
	34	Desbandhu School and Kalikamala School
Borough IV	35	Narkeldanga high School, Surya kanya high School and Sukanta Mancha
	25	KMC Community Hall, 24/1 Nimtala Ghat Street, Ward-24
	27	KMC Community Hall, Manicktala Bazar lane, Ward-27
	38	KMCP School Building, 5, Fakirchand Mitra Street, ward-38
	39	KMCP School Building, 82, M.M Barman street, Ward-39
Borough V	37	Ward Office -36, 45 Harshi St. KMCP School, 10 Harsi St.
	40	Nil
	41	KMCP School, 25 Bal Mukunda Mackar Road
	43	Nil
	44	Community Hall and KMCP School, 1 Nil Madhab Sen Lane, 20032/1, Chatawalla Gully KMC Building 150
Borough VI	46	
	47	
	52	74, Colin Street (Community Hall)
	54	3, Girish Ch Bose Road
	55	
	60	
	61	
62	Ripon Street Community Hall	
Borough VII	58	Anantabadal High land
	63	Not Required
	65	Health Centre at 9B, Tijala Shibtala Lane
	66	Health Centre 35, Sreedhar Roy Road

Borough VIII	70	Vidyanjali School
	72	Beltala Girls School
	86	Law College
	87	Rajendranath Vidyabhaban
	90	Lake View School
Borough IX	74	KMCP School
	76	KMCP School
	77	KMCP School
	78	KMCP School
	79	
Borough XI	112	Dineshpally Primary School
	113	Dineshpally Primary School
	114	Dhalipara School
Borough XII	101	Mahendranath Girls and Boys School (Govt), Full Bagan Ward Office, Baghajatin Sammilani Balika Vidyalaya (Govt. Scholl)
	102	Pranatapally Boys and Girls school (Govt.), Ward Office Central park
	105	RD Memorial school, Arya Balika Vudyalaya (Govt.), Haltu Community hall, Haltu Girls School (Govt.)
	106	Kalidasi primary school (Govt.), Suchetanagar Primary school
	107	Gitanjali Stadium,
	108	Ambedkar KMCP School, adarshanagar KMCP School
	109	1. Buderhat KMCP School 2. Daspara KMCP School 3. Mukundas Govt. School
Borough XIII	115	1) Brajamohan Tiwary School for Boys and Girls 2) Sukharanjan Vidyapith 3) KMC Primary school 4) Purusotam Bhagchandrika Academy
	116	1) Brijraj KMCP School 2) Vidyasagar Vidyabhaban School 3) N.S.H.M College at B.L. Saha Road 4) Jadav Ghosh School
	117	1) Sahapur Girls School 2) Mathuranath High school
	118	1) Harendranath Vidyapith 2) Savitri Valika Vidyalaya
	119	1) D.A.V School 2) Behala Girls School
	120	1) Rukmini Vidyapith 2) Orient Day School 3) Gholshapur KMCP School

	122	1)Muradpur KMCP School 2)Ramkamal Vidyaniketan 3)Srimanta Vidyapith High School 4)Sodepur Balika Vidyalay 5)Kerapukur U.C.N.I Girls School
Borough XIV	121	1) KMCP School, 18 Bigha 2) Haricharan Vidyapith, Joyshree 3) Sirity Prathamik School, P.C. sen Colony 4) Baniniketan High school, Kalitala 5) Barisha High school 6) Calcutta Blind School 7) Vivekananda Womens College 8) Ishwar Chandra Mitra Vidyalaya for Girls, Jadu Colony 9) Ishwar Chandra Mitra Vidyalaya for Boys, Jadu Colony 10) Eastern Railway Sports Complex, Golsapur
	127	1) Shibrampur K.M.C.P. school 2) Sarsuna College 3) Ward Health Unit 4) Sarsuna Law College 5) Sarsuna Girl's school 6) Nani Bala Girls high School, B.B Sengupta Road 7) Miranagar High School, Benimaster Lane 8) S.S Pally, F.P School 9) Industrialist Estate
	128	1. Jogashram K.M.C.P School, Parui Pacca Road 2. Joyhind pally Health Center 3. Gangarampur Girls High School, B.B Sengupta Road 4. Miranagar High School, Benimaster Lane 5. S.S Pally, F.P School 6. Industrial Estate
	129	1) Kshetramohan School 2) Arya Vidyamandir School 3) Satiprasannya School 4) Proyanath Vidyapith 5) Arabindapally School 6) Tarasundari School (Near Blue Star Club) 7) Soudamini School
	130	1) Kazipara KMCP School 2) Shyama Sundari School 3) Sorendra Nath Vidyapith 4) Kishore Bharati School 5) Bani Tirtha Vidyapith 6) Nibedita College
	131	1) Agomani Community Hall

		<ul style="list-style-type: none"> 2) Behala College 3) Behala Sarada Vidyapith 4) Behala Sikhyatan School and College 5) NUHM Health Centre at Parnashree Pally 6) Panchanantala Health Centre 7) Behala Vidyamandir 8) Behala Balika Vidyapith 9) Santi Pally School
	132	<ul style="list-style-type: none"> 1) Behala High school on Banamalinaskar Road 2) B.L.T KMC Primary School 3) Azad Hind School at A.V.L Road 4) Primary School at ODRC near Ajanta Cinema 5) Mahakali Pathsala School at Jora Mandir 6) Vivekananda Hospital at U.B Road
Borough XV	133	Harimohan Ghosh college in ward No. 133
	136	Harimohan Ghosh college in ward No. 133
	139	Haziratan Multipurpose high School in Ward No. 139
	140	Kanchantala KMCP School in ward No. 140
	141	Sathghara KMCP School, Kabi Nazrul KMCP School, Badartala KMCP School in Ward 141
Borough XVI	123	KMCP School
	124	
	125	KMCP School
	126	KMCP School
	142	
	143	
	144	

A.20. Cyclone Evacuation Plan

After receiving a cyclone alert from Regional Meteorological Centre and State EOC, KMC will immediately circulate the message to the members of DDMA, Police Control Room, KMC Control Room, 16 Boroughs of KMC. Municipal Commissioner will immediately hold a meeting with the concerned officers and delegate the duties regarding evacuation of the people from low lying areas and bustee. KMC Borough Executive Engineers (Civil) will take the initiative and with the help of Kolkata Police DMG Unit, Fire Department and Local Police station will evacuate the people of vulnerable areas. The people will be shifted to the KMC

Community Halls, KMCP schools and other govt. Schools available in the respective wards. KMC Civil Engineering Department with the help of other departments of KMC will immediately start gruel kitchen in the shelter house and will distribute the relief materials.

A.21. Plan for Procurement of Machineries/instruments for the next Year (2020-2021)

Sewerage and Drainage Department

Sl.No.	Type of Machine/instrument	Quantity
1	Standard size Gully-pit Emptier machine	28 Nos.
2	Medium size Gully-pit Emptier machine	96 Nos.
3	Standard size Jetting cum Suction machine	31 Nos.
4	Medium size Jetting cum Suction machine	16 Nos.
5	Manhole De-silting machine	144 Nos.
6	Blow-vac(super Sucker machine)	4 Nos.
7	Vehicle Chassis mounted Open Nullah De-silting machine	5 Nos.
8	3 in 1 combined machine (De-silting Grabber cum Suction cum Jetting machine)	5 Nos.
9	Recycler Jetting cum Suction machine	2 Nos.
10	Small size Power Bucket machine	96 Nos.
Total		427 Nos.

Solid Waste Management Department

Sl. No.	Type of Machine/instrument	Quantity
1	Cesspool Emptier	20 Nos.
2	Wrecker	10 Nos.
3	Hydraulic Action Platform	3 Nos.
4	Bio- Shredding Machine, Vehicle Mounted	4 Nos.

Name of Block/ Municipality	If prone to flood mention the number of people in vulnerable zone	If vulnerable to cyclone mention number of people likely to be affected in case of cyclone	If vulnerable to tsunami mention number of people likely to be affected in case of tsunami	If vulnerable to landslide mention number of people likely to be affected	If vulnerable to Chemical/Industrial Disaster mention number of people likely to be affected	People likely to be affected by other disaster if any (mention disaster and number of people)	Total number of people given in column 2 to 7	Earthquake Vulnerability Zone	Priority ranking as per vulnerability to multiple disasters
Kolkata Municipal Corporation	5,00,000 [as per reports of last 10 years local waterlogging in KMC area on an average 4500 people have been affected] In case of heavy flood the number is approximated	100000 [In the year 2009 due to cyclone Aila approximately 10000 people affected. Due to FANI approximately 45000 people and due to BULBUL approximately 35000 people affected.	Not estimated	The city are is in plain land	Not estimated	Fire Hazard is a major concern for the City of Kolkata. Other hazards include Train accident, building collapse, bridge collapse, boat capsized. It is difficult to calculate the number of people likely to be affected by this hazard.	14500(as per the records of last 10 years) 460000 (in case of big flood/cyclone)	Kolkata falls within Moderate Earthquake Damage Risk Zone (Zone-III) within very close vicinity of High Earthquake Damage Risk Zone (Zone-IV) of North and South 24 Parganas districts	1)Thunderstorm/ cyclone 2) Fire 3)Waterlogging 4)Earthquake [On the basis of last 10 years experience it has been noticed that number of people affected by Cyclone is maximum and thus high priority has been assigned to Cyclone]

A.22. Vulnerability to disaster based on last 10 years experience

A.23 List of Chemical & Industrial Hubs and Inflammable Industries under Kolkata District

Sl. No	Name of the Industry	Address	Area	Major Industries
1	Behala commercial Estate Ph-I	Behala Commercial Estate Phase –I, 620, Diamond Harbour Road, Kolkata-700034	0.204 Acres	Engineering Fabrication Job, Printing etc.
2	Behala Commercial Estate Ph-II	Behala Commercial Estate Phase –II, 620, Diamond Harbour Road, Kolkata-700034	0.09 Acres	Engineering Fabrication Job, Printing etc.
3	Behala Industrial Estate	Behala Commercial Estate 620, Diamond Harbour Road, Kolkata-700034	15.13 Acres	Engineering Fabrication Job, Printing, Transformer mfg., Pharmaceuticals, Air-Conditioning etc.
4	Beliaghata Industrial Estate	Beliaghata Industrial Estate, 71, Abinash Ch. Banerjee Lane, Kolkata-700014	5.095 Acres	Engineering Fabrication Job, Printing, Synthetic fishing Net etc.
5	Kasba IE Industrial Estate Ph-I	Kasba Industrial Estate Ph-I, E.M. By Pass (East), Kolkata-700107	10.67 Acres	Engineering Fabrication Job, Printing, Synthetic fishing Net, Mfg. of sweet
6	Kasba IE Industrial Estate Ph-II	Kasba IE Industrial Estate Ph-II, E.M. By Pass (East), Kolkata-700107	6.37 Acres	Leather Products, Food item.
7	Kasba IE Industrial Estate Ph-III	Kasba IE Industrial Estate Ph-III, E.M. By Pass (East), Kolkata-700107	10.21 Acres	Engineering Fabrication Job, Printing, Synthetic fishing Net, Mfg. of sweet & Confectionery
8	Khiderpore Industrial Estate	Khiderpore Industrial Estate, P-5, Hide Road Extn., (Near Brace Bridge Rly. Stn.), Kolkata-700088	2.56 Acres	Engineering Fabrication Job etc.
9	Maniktala Industrial Estate	Maniktala Industrial Estate, East of Bidhannagar Railway Station, Manicktala, Kolkata-54	1.08 Acres	Offset Printing, Mfg, of Transformer, Handicraft items , Printing and Binding, Mfg, of Dtgt. Powder etc.
10	Tangra Industrial Estate Ph-I	Tangra Industrial Estate Ph-I, 25 & 27, Canal South Road, Kolkata-700015	5.28 Acres	Engineering Fabrication Job, Printing, Synthetic fishing Net etc.
11	Tangra Industrial Estate Ph-II	Tangra Industrial Estate Ph-II, 45 , Radhanath Chowdhury Road, Kolkata-700015	5.094 Acres	Engineering Fabrication Job, Printing, Synthetic fishing Net etc.
12	Taratala Industrial Estate	Taratala Industrial Estate, Rabindra Nagar, (Near Birla Vidya Vihar School), 2/4 , Taratala Road, Kolkata-700015	1.116 Acres	Mfg. of Garments and others
13	Udayan Industrial Estate	Ultadanga Mini Industrial Estate, 3, Pangladanga Road, Kolkata-700015	11.23 Acres	Leather goods, Printing etc.

14	Ultadanga Industrial Estate	Ultadanga Industrial Estate, Under Viaduct of Aurobinda Setu, 11, Muraripukur Lane, P.O. Ultadanga, Kolkata-700067	0.18 Acres	Engineering Fabrication Job, Printing etc.
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Source: WBF&ES Department



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 001							
1	30A, 6,	RATAN BABU ROAD RATAN BABU ROAD	110011800774 110011800154	I	LANDMARK		RATAN ROY'S GATEWAY
2	83A,	COSSIPORE ROAD	110010301087	I	LANDMARK		CAST IRON GATE
3		CHANDRA KUMAR ROY LANE		I	RIVERFRONT STRUCTURE / BATHING GHAT		RATANBABU GHAT
4	5,	CHANDRA KUMAR ROY LANE	110010200556	I	RIVERFRONT STRUCTURE / BURNING GHAT		COSSIPORE BURNING GHAT
5		RATAN BABU ROAD		I	RELIGIOUS/HINDU TEMPLE	EAST OF 29 RATAN BABU ROAD	CHANDRAKUMAR ROY'S PANCHARATNA
6	85,	COSSIPORE ROAD	110010301180	I	RELIGIOUS/HINDU TEMPLE		THAKURBARI OF BAMANDAS MUKHWEJWW
7	90,	COSSIPORE ROAD	110010302985	I	RELIGIOUS/HINDU TEMPLE		RAMKRISHNAMATH, COSSIPORE UDYAN BATI
8		COSSIPORE ROAD		IIB	LANDMARK	BETWEEN 87A COSSIPORE ROAD & 87C COSSIPORE ROAD	BAMANDAS MUKHERJEE'S GATEWAY
WARD : 002							
1	56A,	BARRACKPORE TRUNK ROAD	150020100187	I	SCHOOL / COLLEGE (INCL. HOSTEL)		RABINDRA BHARATI UNIVERSITY, EMERALD BOWER
2	4,	DUMDUM ROAD	170020400018 150020400020	I	RECREATIONAL	SEVEN TANKS	COSSIPORE CLUB
3	4A,	KALI CHARAN GHOSH ROAD	110021100018	I	ARCHITECTURAL STYLE		HOUSE OF BASAK FAMILY
4	7,	HARISH CHANDRA PAUL LANE	110020900155	IIA	RELIGIOUS/HINDU TEMPLE	OPPOSITE TO 167/24 SOUTH SINTHI ROAD	THAKURBARI OF SARBARANJAN BASAK
WARD : 003							
1	64B,	KSHUDIRAM BOSE SARANI	110030901563	IIA	SITE & HOUSE WITH THEATRICAL HERITAGE		BELGACHIA VILLA
2	36,	KSHUDIRAM BOSE SARANI	110030900078 170030900029	I	ARCHITECTURAL STYLE		DHURJOTI BHAWAN
3	37, 37/1, 68,	KSHUDIRAM BOSE SARANI KSHUDIRAM BOSE SARANI KSHUDIRAM BOSE SARANI	150030900080 150030903754 150030900091 150030903778 150030901861	IIB	HOSPITAL AND MEDICAL ESTABLISHMENT		BENGAL VETERINARY COLLEGE
WARD : 004							
1		BARRACKPORE TRUNK ROAD		I	LANDMARK	PAIKPARA - CROSSING OF B.T. ROAD & LOCKGATE ROAD	G.T.S. TOWER



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 005							
1	26A,	KSHUDIRAM BOSE SARANI	110051000341	I	RELIGIOUS / JAIN TEMPLE		PARSWANATH UPAVAN WITH GATEWAY
	26B,	KSHUDIRAM BOSE SARANI	110051000936				
	26C,	KSHUDIRAM BOSE SARANI	110051000353				
2	6B,	BONOMALI CHATTERJEE STREET	110050400736	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		KUMAR MANMATHA GANGULI
	6A,	BONOMALI CHATTERJEE STREET	110050400062				
3	1A,	KSHUDIRAM BOSE SARANI	150051000018	IIB	HOSPITAL AND MEDICAL ESTABLISHMENT		R. G. KAR MEDICAL COLLEGE
	1B,	KSHUDIRAM BOSE SARANI	150051000020				
WARD : 006							
1	7,	KHAGENDRA CHATTERJEE ROAD	150061800190	I	LANDMARK		CLOCK TOWER AT GUN & SHELL FACTORY ENTRANCE
			150061800207				
			150061800451				
2	4,	RUSTOMJEE PARSEE ROAD	110062900064	I	RIVERFRONT STRUCTURE / BATHING GHAT	CIRCULAR CANAL TO PRAMANIK GHAT ROAD	RANI DEBENDRABALA GHAT
3	1/5,	KHAGENDRA CHATTERJEE ROAD	110061800463	I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND, SHAHAR BANGLA
4	9,	KHAGENDRA CHATTERJEE ROAD		I	RELIGIOUS / HINDU TEMPLE		CHITTESWARI TEMPLE
5		KHAGENDRA CHATTERJEE ROAD		I	RELIGIOUS / HINDU TEMPLE	POPULARLY KNOWN AS 15/1, KHAGENDRA CHATTERJEE ROAD	SARBAMANGALA TEMPLE
6		PANCHANAN MUKHERJEE		I	RELIGIOUS / MOSQUE	AT THE JUNCTION OF 8, PANCHANAN MUKHERJEE ROAD AND SETT PUKUR ROAD	BASHIRI MOSQUE
7		LOCKGATE ROAD		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 1, LOCKGATE ROAD	
8		JOGENDRANATH MUKHERJEE LANE		I	BRIDGE	OVER CIRCULAR CANAL NEAR THE CONFLUENCE OF HOOGHLY RIVER	SWING BRIDGE
9		BARRACKPORE TRUNK ROAD		I	BRIDGE	OVER CIRCULAR CANAL NEAR GALIFF STREET ON B.T. ROAD	BARRACKPORE BRIDGE

Graded List of Heritage Buildings (I, IIA and IIB)



SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
10		KHAGENDRA CHATTERJEE ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	CIRCULAR CANAL TO PRAMANIK GHAT ROAD	RAJA BAIDYANATH ROY'S GHAT INCLUDING PORT OF CALCUTTA, NORTH-EAST BOUNDARY
WARD : 007							
1		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	PROMODASUNDARI GHAT
2	65/1G,	BAGBAZAR STREET	110070501302	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		PASHUPATI BOSE
	65A,	BAGBAZAR STREET	110070500723				
	65/2,	BAGBAZAR STREET	110070500887				
			110070500875				
			110070500863				
			110070500802				
			110070500796				
	65/3A,	BAGBAZAR STREET	110070500772				
	65/4,	BAGBAZAR STREET	110070500784				
	65/1F,	BAGBAZAR STREET	110070500840				
	65/1E,	BAGBAZAR STREET	110070500838				
	9,	PASHUPATI BOSE LANE	110072900121				
3		KSHIRODE VIDYAVINODE AVENUE		I	RELIGIOUS/HINDU TEMPLE	ON THE EASTERN PAVEMENT OF KSHIRODE VIDYAVINODE AVENUE & OPPOSITE TO 21/1A, HARALAL MITRA STREET	DOCHALA SIVA TEMPLE OF JAGATRAM HALDER
4	610A,	RABINDRA SARANI	110073000713	I	RELIGIOUS/HINDU TEMPLE	JUNCTION OF BAGBAZAR STREET & UPPER CHITPORE ROAD	TEMPLE COMPLEX OF VISHNURAM CHAKRABARTY
	608,	RABINDRA SARANI	110073000142				
			110073000750				
5	16A,	KALI PROSAD CHAKRABORTY STREET	110071700537	I	RELIGIOUS/HINDU TEMPLE		GOURIYA MATH
6	1,	UDBODHAN LANE	110073700048	I	RELIGIOUS/HINDU TEMPLE		SRI RAMAKRISHNA MATH
7	116/1,	BIDHAN SARANI		I	RELIGIOUS/MOSQUE		



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
8	121/1A,	BIDHAN SARANI	110070600092	IIB	SITE & HOUSE WITH THEATRICAL HERITAGE	JUNCTION OF GOPIMOHAN DUTTA LANE AND 121, BIDHAN SARANI	HOUSE OF RAMPRASAD MITRA
	21/1B,	BIDHAN SARANI	110070600109				
WARD : 008							
1		LAKSHMI DUTTA LANE		I	LANDMARK		CAST IRON WATER TAPS
2	16A,	MA SARADA MONI SARANI	110083000466	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SISTER NIVEDITA
3		GIRISH AVENUE		I	STATUE	GIRISH BHAVAN AT 13, GIRISH AVENUE	GIRISCHANDRA GHOSH
4		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	ANNAPURNA GHAT
5		KASHI MITER GHAT STREET		I	RECREATIONAL	POPULARLY KNOWN AS 40A, KASHI MITRA GHAT STREET	SCULPTOR G. PAUL'S STUDIO
6	7,	GIRISH AVENUE	110081400180	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		BALARAM BASU
7	520,	RABINDRA SARANI	110083400110	I	RELIGIOUS / HINDU TEMPLE		THAKURBARI OF GOKUL MITRA
8	32B,	KASHI MITER GHAT STREET	110082500479	I	RIVERFRONT STRUCTURE / MORIBUND HOUSE	RABINDRA SETU TO CIRCULAR CANAL, OPPOSITE KASHI MITRA GHAT	MORIBUND HOUSE OF ABHOYCHARAN GUHA
9	76A, 76B,	BHUPENDRA BASU AVENUE BHUPENDRA BASU AVENUE	110080200262 110080200274	I	ARCHITECTURAL STYLE		FORMER N.C.C. OFFICE
10	532,	RABINDRA SARANI	110083400195	IIA	SHOP		NABINCHANDRA DAS
11	14,	RAMKANTA BOSE STREET	110084401596	IIA	RELIGIOUS / HINDU TEMPLE	NORTH-WEST CORNER OF SHYAM SQUARE	NAVA VRINDABAN TEMPLE
12	5,	NIVEDITA LANE	110083300140	IIB	SCHOOL / COLLEGE (INCL. HOSTEL)		NIVEDITA SCHOOL
13	88,	SHYAMBAZAR STREET	110084800600	IIB	SCHOOL / COLLEGE (INCL. HOSTEL)		SHYAMBAZAR A.V. SCHOOL
14	1A,	DHANADA GHOSH STREET	110080800010	IIB	ARCHITECTURAL STYLE		UNITED BANK - KUMARTULI BRANCH
WARD : 09							
1		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	HARACHANDRA MALLICK'S GHAT
2		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	CHAMPATALA GHAT
3		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	KUMARTULI GHAT



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4	6,	ABHOY MITRA STREET	110090100063	I	ARCHITECTURAL STYLE	BUILDING OPPOSITE TO KUMARTULI PARK NORTH GATE	
5	7,	ABHOY MITRA STREET	110090100312	I	ARCHITECTURAL STYLE	BUILDING OPPOSITE TO KUMARTULI PARK NORTH GATE	
6	8B,	ABHOY MITRA STREET	110090100233	I	ARCHITECTURAL STYLE	BUILDING OPPOSITE TO KUMARTULI PARK NORTH GATE	
7	24B,	KUMARTULI STREET	110092200176	I	ARCHITECTURAL STYLE	PALACE OPPOSITE 1/1 BANAMALI SARKAR STREET	
8	31D,	SOVABAZAR STREET	110093600216	I	ARCHITECTURAL STYLE	JUNCTION OF M.D. ROAD & SOVABAZAR STREET TO 62, SOVABAZAR STREET	ATTRACTIVE STREET ELEVATION
	31C,	SOVABAZAR STREET	110093600794				
9	52,	NANDARAM SEN STREET	110092400967	I	RELIGIOUS/HINDU TEMPLE		RAMESWAR SIVA TEMPLE
	51,	NANDARAM SEN STREET	110092400827				
10	2/5,	BANOMALI SARKAR STREET	110090400861	I	RELIGIOUS/HINDU TEMPLE		BANESWAR SIVA TEMPLE
11	509,	RABINDRA SARANI	110092800416	I	RELIGIOUS/HINDU TEMPLE		GOVINDARAM MITRA'S NAVARATNA
12	17,	HARACHANDRA MULLICK STREET	110091400297	I	ARCHITECTURAL STYLE		PUTUL BARI (HOUSE OF SAHA FAMILY)
13	89,	SOVABAZAR STREET	110093600563	IIA	ARCHITECTURAL STYLE		
14	105,	SOVABAZAR STREET	110093600605	IIA	ARCHITECTURAL STYLE		
15	7,	KRIPANATH LANE	110091900075	IIA	ARCHITECTURAL STYLE		KUMUDINI BHAVAN
16	16,	BANOMALI SARKAR STREET	110090400174	IIA	ARCHITECTURAL STYLE		
17	37,	SOVABAZAR STREET	110093600253	IIA	ARCHITECTURAL STYLE		ATTRACTIVE STREET ELEVATION
18	37/1,	SOVABAZAR STREET	110093600265	IIA	ARCHITECTURAL STYLE		ATTRACTIVE STREET ELEVATION
19	87,	SOVABAZAR STREET	110093600551	IIB	ARCHITECTURAL STYLE		
WARD : 10							
1	93,	SRI AUROBINDA SARANI	110104300212	I	LANDMARK		CAST IRON FIGURES AT HARIN DUTTA'S HOUSE
2	13/2B,	BALARAM GHOSH STREET	110100400388	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		BHUPENDRA NATH BOSE
3	2/2A,	BALARAM GHOSH STREET	110100401022	I	RELIGIOUS/HINDU TEMPLE		BHABATARINI TEMPLE COMPLEX
	2/1A,	BALARAM GHOSH STREET	110100400029				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4	33R/1A, 33R/1B, 33R,	RAJA NABA KRISHNA STREET RAJA NABA KRISHNA STREET RAJA NABA KRISHNA STREET	110103402323 110103402335 110103400338	I	ARCHITECTURAL STYLE		SOVABAZAR RAJ BARI INCLUDING GATEWAY
5	9B, 9A, 36,	RAJA KALI KRISHNA LANE RAJA KALI KRISHNA LANE RAJA NABA KRISHNA STREET	110103100355 110103100203 110103400703	I	ARCHITECTURAL STYLE		HOUSE OF RAJA RAJKRISHNA DEB
6	34G, 34H, 34C, 34D, 34 I, 34B/1, 34B, 34A, 34E, 34F,	SHYAMPUKUR STREET SHYAMPUKUR STREET SHYAMPUKUR STREET SHYAMPUKUR STREET SHYAMPUKUR STREET SHYAMPUKUR STREET SHYAMPUKUR STREET SHYAMPUKUR STREET SHYAMPUKUR STREET SHYAMPUKUR STREET	110104201830 110104201842 110104201702 110104201696 110104201854 110104201878 110104201556 110104200485 110104201726 110104201714	IIB	ARCHITECTURAL STYLE		HOUSE OF MITRA FAMILY
7	3,	ABHOY GHOSH LANE	110100100034	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		UMACHARAN SET
8	33,	SHYAMPUKUR STREET	110104200473	IIA	SCHOOL / COLLEGE (INCL. HOSTEL)		TOWN SCHOOL, BIDHAN SARANI
9	8,	BISWAKOSH LANE	110100900130	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		NAGENDRANATH BOSE
10	47B,	SHYAMBAZAR STREET	150104000447 150104000277	IIA	RELATED TO ESTABLISHMENT		SHYAMPUKUR P.S.
11	23A,	BALARAM GHOSH STREET	110100400546	IIB	SCHOOL / COLLEGE (INCL. HOSTEL)		DUFF SCHOOL
WARD : 011							
1	79/3/5, 79/3/3, 79/3/4A, 79/3/4B,	BIDHAN SARANI BIDHAN SARANI BIDHAN SARANI BIDHAN SARANI	110110300098 110110300074 110110300086 110110300116	I	RECREATIONAL		STAR THEATRE
2	82/3A,	BIDHAN SARANI	110110300190	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		UPENDRANATH BRAHMACHARI
3	2F,	KARTIK BOSE LANE	110110700090	I	RELIGIOUS / HINDU TEMPLE		SAMSARESWAR SIVA TEMPLE
4	79,	BIDHAN SARANI	110110301078	IIA	RELATED TO ESTABLISHMENT		CORPORATION BOROUGH OFFICE
5	2A,	RAJABAGAN STREET	110111500022	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		NANDALAL BOSE



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 012							
1	224B,	ACHARYA PRAFULLA CHANDRA ROAD	110120100877	I	LANDMARK		CLOCK TOWER AT LALITKUMAR MITRA'S HOUSE
	224A,	ACHARYA PRAFULLA CHANDRA ROAD	110120100075				
2	231,	ACHARYA PRAFULLA CHANDRA ROAD	110120100970	I	RELIGIOUS/MOSQUE		
3		RAJA DINENDRA STREET		I	STATUE	DESHBANDHU PARK	DESHBANDHU CHITTARANJAN DAS
4	115,	BIDHAN SARANI	110120400058	I	ARCHITECTURAL STYLE		FORMER HOSTEL OF R G KAR MEDICAL COLLEGE (PRESENTLY NORTH TRAFFIC GUARD)
5	172,	RAJA DINENDRA STREET	150122201417	IIA	HOSPITAL AND MEDICAL ESTABLISHMENT		J. B. ROY STATE AYURVEDIC MEDICAL COLLEGE & HOSPITAL
			150122200851				
	170,	RAJA DINENDRA STREET	150122200814				
			150122201405				
6	1A,	R G KAR ROAD	110122300377	IIA	MARKET		CENTRAL TOWER OF SHYAMBAZAR MARKET
			110122300018				
			110122300195				
			110122300201				
			110122300213				
			110122300183				
WARD : 014							
1	2,	RAMAKANTA SEN LANE		I	BURIAL AND CREMATION	MURARIPUKUR	HINDU BURIAL GROUND
WARD : 015							
1	243/1,	ACHARYA PRAFULLA CHANDRA ROAD	110150100987	I	PUBLIC INSTITUTION		BANGIYA SAHITYA PARISHAD
2		ACHARYA PRAFULLA CHANDRA ROAD		I	BURIAL AND CREMATION	POPULARLY KNOWN AS 248, ACHARYA PRAFULLA CHANDRA ROAD	MUSLIM BURIAL GROUND, NAKHODA
3	24/1,	MUNSHIPARA LANE	110151300480	I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND
	17,	MUNSHIPARA LANE	110151300390				
	17/2,	MUNSHIPARA LANE	110151300406				
	17/3,	MUNSHIPARA LANE	110151300418				
	17/4,	MUNSHIPARA LANE	110151300420				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	19,	MUNSHIPARA LANE	110151300443				
	20,	MUNSHIPARA LANE	110151300224				
	17/1,	MUNSHIPARA LANE	110151300212				
	27,	MUNSHIPARA LANE	110151300509				
	25,	MUNSHIPARA LANE	110151300492				
	24,	MUNSHIPARA LANE	110151300479				
4	36A,	BADRIDAS TEMPLE STREET	110150201524	I	RELIGIOUS /JAIN TEMPLE		TEMPLE & GARDEN OF SRI SRI SITALNATHJI MAHARAJ
	36B,	BADRIDAS TEMPLE STREET	110150200659				
5	29,	BADRIDAS TEMPLE STREET	110150201512	I	RELIGIOUS /JAIN TEMPLE		JAIN SWETAMBAR DADAJI'S TEMPLE & GARDEN
6	27,	BADRIDAS TEMPLE STREET	110150201500	I	RELIGIOUS /JAIN TEMPLE		JAIN SWETAMBAR TEMPLE & GARDEN
7	38,	BADRIDAS TEMPLE STREET	110150201536	I	RELIGIOUS /JAIN TEMPLE		SREE SREE CHANDRA PROBHUJES TEMPLE
8		ACHARYA PRAFULLA CHANDRA ROAD		I	RELIGIOUS /MOSQUE	POPULARLY KNOWN AS 248, ACHARYA PRAFULLA CHANDRA ROAD	
WARD : 016							
1	73,	BIDHAN SARANI	110160400146	I	SCHOOL / COLLEGE (INCL. HOSTEL)		SCOTTISH CHURCH COLLEGIATE SCHOOL
2	55C,	AVEDANANDA ROAD	110160100692	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		KASHIPRASAD GHOSH
	55B,	AVEDANANDA ROAD	110160100680				
3	22,	ISWAR MILL LANE	110161400506	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SATYENDRANATH BOSE
4	40,	AVEDANANDA ROAD	110160100291	IIA	ARCHITECTURAL STYLE		BHABATARAN SARKAR SCHOOL
5	37,	AVEDANANDA ROAD	110160100266	IIA	ARCHITECTURAL STYLE		
6	1,	RAJA RAJ KRISHNA STREET	150162100075 150162100014	IIA	RELATED TO ESTABLISHMENT		BURTALA P.S.
7	34,	AVEDANANDA ROAD	110160100230	IIB	ARCHITECTURAL STYLE		
WARD : 017							
1	67E,	BEADON STREET	110170700594	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RESIDENCE AND THAKURBARI OF RAMDULAL SARKAR (CHATUBABU'S HOUSE)
2	66/1B,	AKSHOY KUMAR DUTTA SARANI	110173901124	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		GOBOR GOHO



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	66/1A,	AKSHOY KUMAR DUTTA SARANI	110173900922				
3	56,	DURGA CHARAN MITRA STREET	110171801590	I	ARCHITECTURAL STYLE		BHAR'S THAKURBARI
4	87D,	AKSHOY KUMAR DUTTA SARANI	110173901112	I	ARCHITECTURAL STYLE		OLD RESIDENTIAL HOUSE
	87C,	AKSHOY KUMAR DUTTA SARANI	110173901100				
	87B,	AKSHOY KUMAR DUTTA SARANI	110173901094				
	87A,	AKSHOY KUMAR DUTTA SARANI	110173901082				
5	101/3A,	AKSHOY KUMAR DUTTA SARANI	110173902207	I	RELIGIOUS/HINDU TEMPLE		TWO SIVA TEMPLES
	96/1/1,	AKSHOY KUMAR DUTTA SARANI	110173902232				
6	5/1,	KASI BOSE LANE	110173500099	I	ARCHITECTURAL STYLE		HOUSE OF H. M. BOSE
7	67A,	BEADON STREET	110170700533	IIA	ARCHITECTURAL STYLE	JUNCTION OF BEADON STREET AND CHATUBABU LANE	DEB HOUSES, ANCIENT HOUSE OF RAMDULAL DE SARKAR (DEB) FAMILY. ONE OF THE FIRST BENGALI ELITE HOUSES IN CALCUTTA.
	67B,	BEADON STREET	110170700545				
	67D,	BEADON STREET	110170700582				
			110170700557				
			110170700569				
			110170700570				
8	19C,	NILMONI MITRA STREET	110174100196	IIA	ARCHITECTURAL STYLE		AN EXAMPLE OF MITRA HOUSES IN BEADON ROW SURROUNDINGS
	19B,	NILMONI MITRA STREET	110174100184				
9	10,	BEADON ROW	110170601257	IIA	ARCHITECTURAL STYLE		
			110170600230				
			110170600228				
10	24/1,	GULU OSTAGAR LANE	110172000496	IIA	RELIGIOUS/MOSQUE		
	24,	GULU OSTAGAR LANE	110172000629				
11	66B,	AKSHOY KUMAR DUTTA SARANI	110173900910	IIA	ARCHITECTURAL STYLE		



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
		66A, AKSHOY KUMAR DUTTA SARANI	110173900909				
12	1/1,	NILMONI SARKAR LANE	110174200026	IIA	RELIGIOUS / HINDU TEMPLE		THAKURBARI OF BRAJAKISHORE JEU
13	13B, 45A,	ABHOY GUHA ROAD HARI GHOSH STREET	110170100130 110172300558	IIB	ARCHITECTURAL STYLE		OLD RESIDENTIAL HOUSE
14	4/1C,	BEADON ROW		IIB	RELIGIOUS / MOSQUE	AT THE JUNCTION OF NILMONI MITRA STREET & BEADON ROW	
WARD : 018							
1	76B, 76A,	BEADON STREET BEADON STREET	110180300480 110180300065	I	ARCHITECTURAL STYLE		HOUSE OF DUTTA FAMILY
2	42A,	JOY MITRA STREET	110181600718	IIB	RELIGIOUS / HINDU TEMPLE		THAKURBARI OF ANNAPURNA
WARD : 019							
1		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	AHIRITOLLA GHAT
2	44C,	SOVABAZAR STREET	110192600522	I	RELIGIOUS / HINDU TEMPLE		TEMPLE
3	92B,	SOVABAZAR STREET	110192600054	I	ARCHITECTURAL STYLE		HOUSE OF BUTTO KRISTO PAUL. (FAMOUS MEDICINE SHOPAT GROUND FLOOR)
4	102,	SOVABAZAR STREET	110192600091	IIA	ARCHITECTURAL STYLE		ALLAHABAD BANK & JORABAGAN TRAFFIC GUARD
5	120,	MAHARSHI DEBENDRA ROAD	110191400148	IIA	ARCHITECTURAL STYLE		
6	57,	BENIATOLA STREET	110190602424	IIA	RELIGIOUS / HINDU TEMPLE		DALAN TEMPLE OF SONAR GOURANGA
7	8,	DINU RAKSHIT LANE	110191100189	IIA	RELIGIOUS / HINDU TEMPLE		THAKURBARI OF MANGALCHANDI (HEM KUTIR) OF DAW FAMILY
8	8,	BENIATOLA STREET	110190602400	IIA	RELIGIOUS / MOSQUE		
WARD : 020							
1	11,	AHIRITOLA STREET	110200200172	I	LANDMARK		GATEWAY OF FORMER AHIRITOLLA BAZAR
2		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	RADHAMADHAV BANERJEE'S GHAT
3		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	MANIK BOSE'S GHAT



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4	2,	STRAND BANK ROAD	110202400012	I	RIVERFRONT STRUCTURE / BURNING GHAT	RABINDRA SETU TO CIRCULAR CANAL, NIMTALA	NIMTALA BURNING GHAT INCLUDING MEMORIALS OF RABINDRANATH THAKUR AND PRAFULLACHANDRA ROY
5		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE	NIMTALA	FLUSHING SLUICE
6	74,	NIMTALA GHAT STREET	150201900864	I	RELATED TO ESTABLISHMENT		SCOTTISH CHURCH SCHOOL(OLD), ESTD.1830 BY SIR ALEXANDER DUFF (FORMER JORABAGAN POLICE STATION)
			150201900487				
			150201900876				
			150201900475				
7	16,	MOHAMMED RAMJAN LANE		I	RELIGIOUS/HINDU TEMPLE		DURGESWAR SIVA TEMPLE
8	86,	NIMTALA GHAT STREET	110201900773	I	RELIGIOUS/MOSQUE		
	86/1B,	NIMTALA GHAT STREET	110201900840				
9		STRAND BANK ROAD		IIA	RIVERFRONT STRUCTURE	NIMTALA	BANGUR'S RESTING HOUSE
10	363,	RABINDRA SARANI	110202200011	IIA	SCHOOL/ COLLEGE (INCL. HOSTEL)		ORIENTAL SEMINARY
11	80,	BUTTO KRISTO PAUL AVENUE	110200500684	IIB	SCHOOL/ COLLEGE (INCL. HOSTEL)		AHIRITOLLA BANGA VIDYALAYA
12	34,	BRINDABAN BYSACK STREET	110200400630	IIB	ARCHITECTURAL STYLE		
13		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / MORIBUND HOUSE	NIMTALA	MORIBUND HOUSE OF GIRISH CHANDRA BOSE
WARD : 021							
1		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	ADYASRADDHA GHAT
2		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	PRASANNAKUMAR TAGORE GHAT
3		STRAND ROAD		I	RIVERFRONT STRUCTURE / MORIBUND HOUSE	BETWEEN PRASANNA KUMAR TAGORE GHAT AND RADHAMADHAV BANERJEE'S GHAT. ADJACENT TO 67/19 STRAND ROAD (CROSS ROAD 16).	MORIBUND HOUSE OF RAJCHANDRA DAS
4	13/1,	JORABAGAN STREET	110211100205	I	ARCHITECTURAL STYLE		HOUSE OF MUKHERJEE FAMILY (BAGH BARI)
	12,	JORABAGAN STREET	110211100187				
	13,	JORABAGAN STREET	110211100199				
	14,	JORABAGAN STREET	110211100217				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
5	1A, 1B,	BAISHNAB SETT STREET	110210200010 110210200022	IIA	ARCHITECTURAL STYLE		MOTILAL RADHAKISSEN BAGLA
6	20B, 20A,	NIMTALA GHAT STREET	110211900313 110211900325 110211900301	IIB	ARCHITECTURAL STYLE		PRESENTLY HOUSE OF CHOWDHURY FAMILY
7	14/3,	NIMTALA GHAT STREET	110211900180	IIB	ARCHITECTURAL STYLE		
WARD : 022							
1		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	VIDYASAGAR SETU TO RABINDRA SETU	CHOTELAL'S GHAT INCLUDING PLAQUE
2		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	VIDYASAGAR SETU TO RABINDRA SETU	RAMCHANDRA GOENKA'S GHAT
3		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	VIDYASAGAR SETU TO RABINDRA SETU	GANPAT ROY KAYAN GHAT
4		STRAND ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	VIDYASAGAR SETU TO RABINDRA SETU	NEMAICHARAN MALLICK GHAT
5		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	VIDYASAGAR SETU TO RABINDRA SETU	BISSESSUR LALL HURGOBIND SRADH GHAT
6		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE	SOUTH OF NEMAI MULLICK'S GHAT	OLD WOODEN TICKET COUNTER
7		STRAND BANK ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	RABINDRA SETU TO CIRCULAR CANAL	JAGANNATH GHAT OR NAWAB MIR JAFAR GHAT
8	48, 68, 69, 47,	STRAND ROAD	150223100028 150223100065 150223100077 150223100016	I	RELATED TO ESTABLISHMENT		OLD MINT
9	1, 7B,	BYSACK LANE	110220300079 110220300031	I	RELIGIOUS / JAIN TEMPLE		DIGAMBAR JAIN TEMPLE
10		STRAND ROAD		I	BRIDGE	OVER HOOGHLY RIVER	RABINDRA SETU
11	24/1, 25, 25/1C, 17, 17,	MAHARSHI DEBENDRA ROAD	110221800400 110221800412 110221800424 110222600364 110222500035	I	ARCHITECTURAL STYLE		HOUSE OF LATE MAHARAJA SUKHAMAY RAY (POSTA RAJBARI)



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 023							
1		HARAPRASAD DEY LANE		I	RELIGIOUS/HINDU TEMPLE	POPULARLY KNOWN AS 5/1, HARAPRASAD DEY LANE	THAKURBARI OF BANSIDHAR MALLICK
2	53,	BARTALA STREET	110230500060	IIB	RELIGIOUS/HINDU TEMPLE		DALAN TEMPLE OF RADHAMADHAB
WARD : 024							
1	13B,	PRASANNA KUMAR TAGORE STREET	110242000109	I	ARCHITECTURAL STYLE		
	13A,	PRASANNA KUMAR TAGORE STREET	110242000390				
	10/1,	PRASANNA KUMAR TAGORE STREET	110242000419				
2	46,	PATHURIAGHAT STREET	110241900022	I	ARCHITECTURAL STYLE		
3		PATHURIAGHAT STREET		I	RELIGIOUS/HINDU TEMPLE	JUNCTION OF JADULAL MULLICK ROAD & PATHURIAGHAT STREET OPPOSITE 67, PATHURIAGHAT STREET	SIVA TEMPLE
4	47,	PATHURIAGHAT STREET	110241900034	I	ARCHITECTURAL STYLE		HOUSE OF KHELAT GHOSH
5	26/1B,	PRASANNA KUMAR TAGORE STREET	110242000249	IIA	ARCHITECTURAL STYLE	OPPOSITE TO 9 PRASANNA KUMAR TAGORE STREET	PALACE OF TAGORE FAMILY
	26/1C/1D,	PRASANNA KUMAR TAGORE STREET	110242000432				
	26/1C/1A,	PRASANNA KUMAR TAGORE STREET	110242000444				
	26/1M,	PRASANNA KUMAR TAGORE STREET	110242000470				
	26/1N,	PRASANNA KUMAR TAGORE STREET	110242000481				
	26/1P,	PRASANNA KUMAR TAGORE STREET	110242000493				
	26/1X,	PRASANNA KUMAR TAGORE STREET	110242000511				
	26/1Y,	PRASANNA KUMAR TAGORE STREET	110242000523				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	26/1A,	PRASANNA KUMAR TAGORE STREET	110242000237				
	26/1C/1B,	PRASANNA KUMAR TAGORE STREET	110242000250				
	26/1D,	PRASANNA KUMAR TAGORE STREET	110242000262				
6	57,	PATHURIAGHAT STREET	110241900149	IIA	ARCHITECTURAL STYLE		PALACE HOUSE OF TAGORES
7	65A,	PATHURIAGHAT STREET	110241900332	IIA	ARCHITECTURAL STYLE		SETH RAMKUMAR BANGUR'S DHARMSALA
8	67,	PATHURIAGHAT STREET	110241900496 110241900502	IIA	ARCHITECTURAL STYLE		HOUSE OF JADULAL MULLICK
9	279D,	RABINDRA SARANI	110242100542	IIA	SITE & HOUSE WITH THEATRICAL HERITAGE		MADHUSUDAN SANYALS' HOUSE. NOW MULLICK HOUSE. ALSO NOTED FOR ARCHITECTURAL STYLE.
	9/1/1A,	KHELAT GHOSH LANE	110241300110				
	279B,	RABINDRA SARANI	110242100529				
	279C,	RABINDRA SARANI	110242100530				
	9/2G,	KHELAT GHOSH LANE	110241300183				
	9/2A,	KHELAT GHOSH LANE	110241300134				
	9/2B,	KHELAT GHOSH LANE	110241300146				
	279A,	RABINDRA SARANI	110242100438				
	279E,	RABINDRA SARANI	110242100554				
10	9A,	BAISHNAB SETT STREET	110240400054	IIB	ARCHITECTURAL STYLE		
11	10,	PRASANNA KUMAR TAGORE STREET	110242000092	IIB	ARCHITECTURAL STYLE		METROPOLITAN INSTITUTIONS
12	26,	KALI KRISHNA TAGORE STREET	110241200085	IIB	ARCHITECTURAL STYLE		DAGA PALACE
13	10,	KALI KRISHNA TAGORE STREET	110241200152	IIB	ARCHITECTURAL STYLE		
WARD : 025							
1	27,	BARANASHI GHOSH STREET	110250600598 110250600320	I	LANDMARK		GATEWAY OF PRATAPCHANDRA GHOSH'S HOUSE
2		BARANASHI GHOSH STREET		I	LANDMARK		KALIPRASANNA SINHA'S FOUNTAIN
3	296B,	RABINDRA SARANI	110253600299	I	HOSPITAL AND MEDICAL ESTABLISHMENT		LOHIA MATRI SEVA SADAN INCLUDING GATEWAY. ALSO NOTED FOR ARCHITECTURAL STYLE.



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4	6B,	DWARAKANATH TAGORE LANE	110251900152	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		JORASANKO THAKURBARI, NOW RABINDRA BHARATI UNIVERSITY, JORASANKO COMPLEX
	6/3,	DWARAKANATH TAGORE LANE	110251900061				
	6/2,	DWARAKANATH TAGORE LANE	110251900050				
	6/1A,	DWARAKANATH TAGORE LANE	110251900048				
	6A,	DWARAKANATH TAGORE LANE	110251900036				
	5,	DWARAKANATH TAGORE LANE	110251900024				
	6C,	DWARAKANATH TAGORE LANE	110251900164				
	5/1B,	BARANASHI GHOSH 2ND LANE	110250400070				
	5/1A,	BARANASHI GHOSH 2ND LANE	110250400068				
5	211,	BIDHAN SARANI	110251200609	I	RELIGIOUS / BRAHMO PRAYER HALL		BRAHMO PRAYER HALL SADHARAN BRAHMO SAMAJ
	210/6A,	BIDHAN SARANI	110251200427				
	211/1,	BIDHAN SARANI	110251200439				
	210/6B,	BIDHAN SARANI	110251200592				
6	23,	TARAK PRAMANIK ROAD	110254901763	I	RELIGIOUS/HINDU TEMPLE		SITANATH & BALAKNATH SIVA TEMPLE (NAVARATNA)
7		CHITTARANJAN AVENUE		I	STATUE	GIRISH PARK	GIRISCHANDRA GHOSH
8	22A,	VIVEKANANDA ROAD	110255000720	I	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS
			110255000731				
			110255000561				
			110255000743				
9	24A,	VIVEKANANDA ROAD	110255000573	I	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS
10	76A,	TARAK PRAMANIK ROAD	110254900734	I	ARCHITECTURAL STYLE		HOUSE OF KUNDU FAMILY
	16/1B,	AMAR BOSE SARANI	110251600557				
	16/1A,	AMAR BOSE SARANI	110251600211				
11	11,	VIVEKANANDA ROAD	110255000068	IIA	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS
12	288,	RABINDRA SARANI	110253600240	IIA	ARCHITECTURAL STYLE		JORASANKO RAJBATI
	290,	RABINDRA SARANI	110253600251				
	292,	RABINDRA SARANI	110253600263				
	294,	RABINDRA SARANI	110253600275				
	286,	RABINDRA SARANI	110253600238				
13	49,	VIVEKANANDA ROAD	110255000240	IIA	ARCHITECTURAL STYLE		
14	42,	VIVEKANANDA ROAD	110255000706	IIA	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
15	34,	VIVEKANANDA ROAD	110255000640	IIA	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS
16	20B,	VIVEKANANDA ROAD	110255000718	IIA	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS
	20A,	VIVEKANANDA ROAD	110255000550				
17	15,	VIVEKANANDA ROAD	110255000081	IIA	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS
18	17,	VIVEKANANDA ROAD	110255000093	IIA	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS
19	25A,	VIVEKANANDA ROAD	110255001280	IIA	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS
			110255001292				
	25B,	VIVEKANANDA ROAD	110255000263				
20	37,	VIVEKANANDA ROAD	110255000184	IIA	ARCHITECTURAL STYLE		TYPICAL ELEVATION OF ARISTOCRATIC BUILDINGS
21	210/3/1,	BIDHAN SARANI	110251200385	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RAMANANDA CHATTERJEE. 'NABYABHARAT' WAS PUBLISHED FROM THIS PLACE
22	30,	SARKAR LANE	110254400348	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		BHISMADEV CHATTERJEE
23	210/3/2,	BIDHAN SARANI	110251200397	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SHASHIPADA BANERJEE (DEBALAYA)
24	217A,	BIDHAN SARANI	110251200531	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		NILRATAN SARKAR
	217B,	BIDHAN SARANI	110251200622				
25	63B,	TARAK PRAMANIK ROAD	110254900576	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		KRISHNADAS PAL & RADHACHARAN PAL
	63A,	TARAK PRAMANIK ROAD	110254900564				
26	210,	BIDHAN SARANI	110251200324	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		PRASANTA CHANDRA MAHALANABISH
WARD : 026							
1	9,	BEADON SQUARE	110260400113	I	STATUE	RABINDRA KANAN	STATUE OF SITANATH ROY STATUE OF KAVIRAJ DWARKANATH SEN STATUE OF PRIYANATH SEN STATUE OF RAJA KALIKRISHNA DEV BAHADUR



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
2	3,	GOUR MUKHERJEE STREET	110261400029	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SWAMI VIVEKANANDA
3	61,	WC BANERJEE STREET	110264200969	I	RELIGIOUS/HINDU TEMPLE		PAIR OF TEMPLES
4	48,	DR. NARAYAN ROY SARANI	110261300072	I	RELIGIOUS/HINDU TEMPLE		PAIR OF TEMPLES
	46,	DR. NARAYAN ROY SARANI	110261300394				
5		BEADON STREET		I	RELATED TO ESTABLISHMENT	9, BEADON STREET	BEADON STREET POST OFFICE
6	182B,	BIDHAN SARANI	110260800036	I	RELIGIOUS/CHRISTIAN CHURCH		CHRIST CHURCH
	182C,	BIDHAN SARANI	110260800280				
7	74,	DR. NARAYAN ROY SARANI	110261300217	I	RELIGIOUS/HINDU TEMPLE		GOVINDA DEY'S TEMPLE
8	25,	BETHUNE ROW	110260600618	I	RELIGIOUS/HINDU TEMPLE		NISTARINI TEMPLE COMPLEX
9	133/2/1,	RAMDULAL SARKAR STREET	110263101492	I	RELIGIOUS/HINDU TEMPLE		
10	181,	BIDHAN SARANI	150260800012	IIA	SCHOOL/ COLLEGE (INCL. HOSTEL)		BETHUNE SCHOOL AND COLLEGE
			150260800292				
	182A,	BIDHAN SARANI	150260800024				
			150260800309				
	128/1,	RAMDULAL SARKAR STREET	150263101522				
			150263100748				
11	133,	RAMDULAL SARKAR STREET	110263100761	IIA	ARCHITECTURAL STYLE		BALI BARI 100 YEARS OLD
12	318,	CHITTARANJAN AVENUE	110261000519	IIA	ARCHITECTURAL STYLE		
13	57A,	VIVEKANANDA ROAD	110264100033	IIA	ARCHITECTURAL STYLE		
14	271,	CHITTARANJAN AVENUE	110261000258	IIA	ARCHITECTURAL STYLE		
15	267A,	CHITTARANJAN AVENUE	110261000234	IIA	ARCHITECTURAL STYLE		
16	243,	CHITTARANJAN AVENUE	110261000015	IIA	ARCHITECTURAL STYLE		
17	101C,	VIVEKANANDA ROAD	110264100367	IIA	ARCHITECTURAL STYLE		YOTIRAJ BHAVAN
	101D,	VIVEKANANDA ROAD	110264100379				
	101B,	VIVEKANANDA ROAD	110264100355				
	101A,	VIVEKANANDA ROAD	110264100343				
18	33,	RAMDULAL SARKAR STREET	110263100049	IIA	RELIGIOUS/HINDU TEMPLE		THAKURBARI OF BANSIDHAR MITRA
	34/2,	RAMDULAL SARKAR STREET	110263100116				
19	6,	BEADON STREET	110260500132	I	RECREATIONAL		MINERVA THEATRE
20	56,	RAMDULAL SARKAR STREET	110263100591	IIB	SHOP		GIRISHCHANDRA DEY & NAKUR NANDI
21	69A,	WC BANERJEE STREET	110264200829	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		WOMESH CHANDRA BANDYOPADHYAY
22	55A,	RAMDULAL SARKAR STREET	110263100578	IIB	ARCHITECTURAL STYLE		
	55B,	RAMDULAL SARKAR STREET	110263100580				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
23	36B,	BETHUNE ROW	110260600497	IIB	ARCHITECTURAL STYLE		OLD RESIDENTIAL HOUSE NOW BEING PARTLY USED AS PRESS, OFFICES ETC.,
	36A,	BETHUNE ROW	110260600450				
	36C,	BETHUNE ROW	110260600503				
	36D,	BETHUNE ROW	110260600515				
24	6,	ASHUTOSH DE LANE	110260300064	IIB	ARCHITECTURAL STYLE		TRADITIONAL RESIDENTIAL HOUSE
25	4A,	RAMTANU BOSE LANE	110263400045	IIB	ARCHITECTURAL STYLE		
26	50,	RAMTANU BOSE LANE	110263401098	IIB	ARCHITECTURAL STYLE		
WARD : 027							
1	187,	VIVEKANANDA ROAD	110273900895	I	LANDMARK		CLOCK TOWER AT MANICKTALA MARKET
	123/1/1,	ACHARYA PRAFULLA CHANDRA ROAD	110270100016				
	123,	ACHARYA PRAFULLA CHANDRA ROAD	110270100028				
2		KAILASH BOSE STREET		I	LANDMARK	BETWEEN 71A & 71C, KAILASH BOSE STREET	GATEWAY OF LAHA'S HOUSE
3		URQUHART SQUARE		I	PARK, WATERBODY & MEMORIAL	AZAD HIND BAG	AZAD HIND BAG INCLUDING STATUE OF BUTTAKRISTA PAL
4	1,	URQUHART SQUARE	110273700018	IIB	SCHOOL / COLLEGE (INCL. HOSTEL)		SCOTTISH CHURCH COLLEGE - B.ED. BLOCK
5	2,	URQUHART SQUARE	110273700031	I	ARCHITECTURAL STYLE		PREVIOUSLY RESIDENCE OF BRITISH EXECUTIVE
6	3,	URQUHART SQUARE	110273700020	I	SCHOOL / COLLEGE (INCL. HOSTEL)		SCOTTISH CHURCH COLLEGE
7	113,	VIVEKANANDA ROAD	110273900949	I	PUBLIC INSTITUTION		Y.M.C.A. - VIVEKANANDA ROAD
8	122/1A,	SISIR BHADHURY SARANI	110273600231	IIA	SITE & HOUSE WITH THEATRICAL HERITAGE		JANARDAN SAHA'S HOUSE
	122A,	SISIR BHADHURY SARANI	110273600190				
	122B,	SISIR BHADHURY SARANI	110273600206				
	122D,	SISIR BHADHURY SARANI	110273600220				
	122/1B,	SISIR BHADHURY SARANI	110273600243				
	122/1C,	SISIR BHADHURY SARANI	110273600255				
9	113,	ACHARYA PRAFULLA CHANDRA ROAD	150270100181	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RAJA RAMMOHAN ROY, NOW OFFICE OF THE DEPUTY COMMISSIONER OF POLICE (NORTH) AND POLICE MUSEUM.
			150270100545				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
10	77,	SISIR BHADHURY SARANI	110273600735	I	RELIGIOUS / HINDU TEMPLE		SRI SRI JAGAT JANANI TEMPLE
11	80/1,	SISIR BHADHURY SARANI	110273600176	I	RELIGIOUS / HINDU TEMPLE	OPPOSITE TO 124/4A, MANIKTALA STREET	TEMPLE
12	16A, 16B,	D. L. ROY STREET D. L. ROY STREET	110271200249 110271200420	I	ARCHITECTURAL STYLE		
13	128, 127,	SISIR BHADHURY SARANI SISIR BHADHURY SARANI	110273600747 110273600589	I	RELIGIOUS / CHRISTIAN CHURCH		DUFF CHURCH, INDIAN (BENGALI)
14	12,	BINODE SAHA LANE	110270700202	I	RELIGIOUS / HINDU TEMPLE		THAKURBARI OF BANKUBIHARI SAHA
15	85B, 85A, 85A, 85D, 85C,	RAJA RAMMOHAN SARANI RAJA RAMMOHAN SARANI RAJA RAMMOHAN SARANI RAJA RAMMOHAN SARANI RAJA RAMMOHAN SARANI	110273200435 110273200381 110273200381 110273200459 110273200447	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RAMA PROSAD ROY (FIRST INDIAN JUSTICE OF THE CALCUTTA HIGH COURT)
16	71A, 71B,	SISIR BHADHURY SARANI SISIR BHADHURY SARANI	110273600681 110273600061	IIA	PRESS AND MEDIA		'EDUCATION GAZETTE' WAS PUBLISHED FROM HERE.
17	14/1,	DUFF STREET	110271700260	IIA	ARCHITECTURAL STYLE		
18	19,	DUFF STREET	110271700313	IIA	SCHOOL / COLLEGE (INCL. HOSTEL)		ST. MARGARET SCHOOL
19	18A, 18B,	DR. DHIREN SEN SARANI DR. DHIREN SEN SARANI	110271400494 110271400500	IIB	PRESS AND MEDIA		'JANASEVAK' WAS PUBLISHED FROM HERE.
20	35C,	KAILASH BOSE STREET	110272100299	IIB	SCHOOL / COLLEGE (INCL. HOSTEL)		ADI MAHAKALI PATHSHALA
21	4A,	D. L. ROY STREET	110271200079	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		DWIJENDRALAL ROY
22	25,	RAMMOHAN SAHA LANE	110273400497	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		BROJENDRANATH SEAL
23	1,	AVEDANANDA ROAD	110270400012	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RAJENDRANATH MUKHERJEE. PRESENTLY HOLY CHILD SCHOOL. ALSO NOTED FOR ARCHITECTURAL STYLE.
24	3B, 3C, 3A,	BINODE SAHA LANE BINODE SAHA LANE BINODE SAHA LANE	110270700068 110270700070 110270700056	IIB	ARCHITECTURAL STYLE		SAHA HOUSE
25	15,	D. L. ROY STREET	110271200237	IIB	ARCHITECTURAL STYLE		
26	114,	VIVEKANANDA ROAD	110273900044	IIB	ARCHITECTURAL STYLE		YMCA
27	7A,	MAHENDRA SREEMANI STREET	110272600077	IIB	ARCHITECTURAL STYLE		



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
28	49,	BIDHAN SARANI	110270600293	IIB	BUILDING CONNECTED WITH FREEDOM MOVEMENT		ANUSHILAN SAMITY
WARD : 028							
1	293,	ACHARYA PRAFULLA CHANDRA ROAD	110280100675	I	SCHOOL / COLLEGE (INCL. HOSTEL)		CALCUTTA DEAF AND DUMB SCHOOL
2	100A,	GARPAR ROAD	110280701907	I	SCHOOL / COLLEGE (INCL. HOSTEL)		ATHENAEUM INSTITUTION
3	294,	ACHARYA PRAFULLA CHANDRA ROAD	110280100572	I	SCHOOL / COLLEGE (INCL. HOSTEL)		BRAHMO BALIKA SIKSHALAYA
4	267,	ACHARYA PRAFULLA CHANDRA ROAD	110280100407	I	PUBLIC INSTITUTION		RAMMOHAN LIBRARY
5	294/2,	ACHARYA PRAFULLA CHANDRA ROAD	110280100717	I	ARCHITECTURAL STYLE		SADHANA SARKAR UDYAN
6	259B,	ACHARYA PRAFULLA CHANDRA ROAD	110280100328	I	BURIAL AND CREMATION		CHURCH MISSION SOCIETY CEMETERY
7	29,	WARDS INSTITUTION STREET	110281800530	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		HARINATH DEY
8	294/2/1,	ACHARYA PRAFULLA CHANDRA ROAD	110280100584	IIA	PUBLIC INSTITUTION		FEDERATION HALL
9	295/1,	ACHARYA PRAFULLA CHANDRA ROAD	110280100020	IIA	HOSPITAL AND MEDICAL ESTABLISHMENT		M. N. CHATTERJEE EYE HOSPITAL
WARD : 030							
1	105,	MOULANA ABUL KALAM AZAD SARANI		I	BURIAL AND CREMATION		GREEK CEMETERY
2	28A,	SASHTITALA ROAD	110301300475	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		GURUDAS BANERJEE
	28B,	SASHTITALA ROAD	110301300487				
	28D,	SASHTITALA ROAD	110301300505				
	28C,	SASHTITALA ROAD	110301300499				
WARD : 031							
1	168,	MANICKTALA MAIN ROAD	110311400022	I	OFFICE		BENGAL CHEMICAL
	46,	CANAL CIRCULAR ROAD	110310100523				
	41,	CANAL CIRCULAR ROAD	110310100122				
	164,	MANICKTALA MAIN ROAD	110311400010				
2	6,	JOGODYAN LANE	110310500069	IIA	RELIGIOUS / HINDU TEMPLE		RAMAKRISHNA MATH (YOGODYAN)
	7A,	JOGODYAN LANE	110310500860				
	23/3B/2,	SHIB KRISTO DAW LANE	110311301780				
	23/2,	SHIB KRISTO DAW LANE	110311300532				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	23/3E,	SHIB KRISTO DAW LANE	110311300568				
	23/3D,	SHIB KRISTO DAW LANE	110311300556				
WARD : 032							
1		C. I. T. SCHEME NO. VII(M)		I	STATUE	IN FRONT OF VSNL BUILDING, ULTADANGA	BIDHAN CHANDRA ROY
2	52,	BAGMARI ROAD	110320201500	I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND, MAKBARA-I-AM
3	98,	SATIN SEN SARANI	ALL ASSESSEES ASSIGNED TO THE PREMISE	I	RELIGIOUS/HINDU TEMPLE		KALI SEAL'S TEMPLE
WARD : 033							
1		MOULANA ABUL KALAM AZAD SARANI		I	LANDMARK		GATEWAY BETWEEN 73A AND 73V MOULANA ABUL KALAM AZAD SARANI
2	109,	DR. SURESH CHANDRA BANERJEE ROAD	110330902280	I	BURIAL AND CREMATION		PARSI TOWER OF SILENCE
3	45,	MOULANA ABUL KALAM AZAD SARANI	110331300950	I	BURIAL AND CREMATION		JEWISH CEMETERY
4		MOULANA ABUL KALAM AZAD SARANI		I	PARK, WATERBODY & MEMORIAL		SUBHAS SAROVAR
WARD : 034							
1		DR. SURESH CHANDRA BANERJEE ROAD		I	LANDMARK	POPULARLY KNOWN AS 14A, DR SURESH CHANDRA BANERJEE ROAD	GATEWAY OF THAKUR BAGAN
2	145,	RAJA RAJENDRALAL MITRA ROAD	110341602257	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RAJENDRALAL MITRA'S HOUSE
	146,	RAJA RAJENDRALAL MITRA ROAD	110341601990				
	144,	RAJA RAJENDRALAL MITRA ROAD	110341601988				
	143,	RAJA RAJENDRALAL MITRA ROAD	110341601976				
3	1,	RAJA RAJENDRALAL MITRA ROAD	110341600017	I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND, BAGE MOHAMMEDI - DAWOODI BOHRA COMMUNITY BURIAL GROUND



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4	19, DR. SURESH CHANDRA BANERJEE ROAD 19/1B, DR. SURESH CHANDRA BANERJEE ROAD 19/1A, DR. SURESH CHANDRA BANERJEE ROAD		110340901071 110340902877	I	RELIGIOUS / MOSQUE		KARIMUNNESA BIBI MASJID
5	150B, DR. SURESH CHANDRA BANERJEE ROAD		110340904989 110340900492	IIA	BUILDING CONNECTED WITH FREEDOM MOVEMENT		HYDERI MANZIL - MAHATMA GANDHI STAYED HERE ON 15TH AUGUST 1947
WARD : 035							
1	169, DR. SURESH CHANDRA BANERJEE ROAD		110351100333	I	BURIAL AND CREMATION		ROMAN CATHOLIC CEMETERY
2	7, DR. SURESH CHANDRA BANERJEE ROAD 7/1, DR. SURESH CHANDRA BANERJEE ROAD		110351100126 110351100138	I	RELIGIOUS / MOSQUE		
WARD : 036							
1	ACHARYA PRAFULLA CHANDRA ROAD			I	BURIAL AND CREMATION	POPULARLY KNOWN AS 307, ACHARYA PRAFULLA CHANDRA ROAD	ST. JOHN'S CATHOLIC CEMETERY
2	NORTH SEALDAH ROAD			I	BURIAL AND CREMATION	POPULARLY KNOWN AS 3, NORTH SEALDAH ROAD	MUSLIM BURIAL GROUND, SHIA
3	NORTH SEALDAH ROAD			I	BURIAL AND CREMATION	POPULARLY KNOWN AS 6, NORTH SEALDAH ROAD	MUSLIM BURIAL GROUND, KURESHI
4	HARSHI STREET			I	BURIAL AND CREMATION	POPULARLY KNOWN AS 8, HARSHI STREET	MUSLIM BURIAL GROUND, SURATI JAMAT
5	KAISER STREET			I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 1 & 1/2, KAISER STREET	
6	NORTH SEALDAH ROAD			I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 25, NORTH SEALDAH ROAD	
7	302, ACHARYA PRAFULLA CHANDRA ROAD		110360200050 110360200267	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		MANINDRA CHANDRA NANDI, COSSIMBAZAR HOUSE



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 037							
1	78B,	ACHARYA PRAFULLA CHANDRA ROAD	110370100664	I	BURIAL AND CREMATION		KESHAB CHANDRA SEN'S RESIDENCE (BRAHMO MEMORIALS BUILT OVER URNS CONTAINING ASHES)
2		RAJA RAMMOHAN SARANI		I	RELIGIOUS/CHRISTIAN CHURCH	POPULARLY KNOWN AS 33/1A & 33B, RAJA RAMMOHAN SARANI	HOLY TRINITY CHURCH
3	83B, 83A,	BAITAKKHANA ROAD BAITAKKHANA ROAD	110370301256 110370301141	I	RELIGIOUS/MOSQUE		
4	33/1A,	RAJA RAMMOHAN SARANI	110371300170	IIA	SCHOOL/ COLLEGE (INCL. HOSTEL)		ST. PAUL'S CATHEDRAL MISSION COLLEGE
5	33B,	RAJA RAMMOHAN SARANI	110371300168	IIA	RELATED TO ESTABLISHMENT		AMHERST STREET POST OFFICE
6	63,	ACHARYA PRAFULLA CHANDRA ROAD	110370100421	IIB	HOSPITAL AND MEDICAL ESTABLISHMENT		D. N. DEY HOMOEOPATHIC MEDICAL COLLEGE
WARD : 038							
1	52,	RAJA RAMMOHAN SARANI	110382500118	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		HEMENDRAMOHAN BOSE KARTIK BOSE
2	92,	ACHARYA PRAFULLA CHANDRA ROAD	110380100320	I	SCHOOL/ COLLEGE (INCL. HOSTEL)		CALCUTTA UNIVERSITY, SCIENCE COLLEGE, RAJABAZAR. ALSO NOTED FOR ARCHITECTURAL STYLE
3	102/1,	RAJA RAMMOHAN SARANI	110382500453	I	SCHOOL/ COLLEGE (INCL. HOSTEL)		CITY COLLEGE, AMHERST STREET
4	36,	VIDYASAGAR STREET	110380600468	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		ISWARCHANDRA VIDYASAGAR
5	93,	ACHARYA PRAFULLA CHANDRA ROAD	110380100046	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		JAGADISH CHANDRA BOSE
6	50A,	KAILASH BOSE STREET	110381800283	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SATYACHARAN LAW
	50B/1,	KAILASH BOSE STREET	110381800805				
7	23A,	BALAI SINHA LANE	110380300497	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		NARENDRANATH LAHA/ RESHEECASE LAW. ALSO NOTED FOR ARCHITECTURAL STYLE.
	23B,	BALAI SINHA LANE	110380300539				
	96C,	RAJA RAMMOHAN SARANI	110382500696				
	96B,	RAJA RAMMOHAN SARANI	110382500684				
	96B/3,	RAJA RAMMOHAN SARANI	110382500775				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
8	93/3A/1,	ACHARYA PRAFULLA CHANDRA ROAD	110380100071	I	ARCHITECTURAL STYLE		HOUSE OF G.C. MONDAL / A.K. MONDAL, SOLICITOR
	93/3A/2,	ACHARYA PRAFULLA CHANDRA ROAD	110380100370				
9		KESHAB CHANDRA SEN STREET		I	RELIGIOUS / BRAHMO PRAYER HALL	POPULARLY KNOWN AS 95, KESHAB CHANDRA SEN STREET	BRAHMO PRAYER HALL - BHARATBARSHIYA BRAHMO SAMAJ
10		BECHU CHATTERJEE STREET		I	RELIGIOUS / HINDU TEMPLE	POPULARLY KNOWN AS 9A, BECHU CHATTERJEE STREET	THAKURBARI OF BIHARILAL MITRA
11	2B,	BIDHAN SARANI	110380500309	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RAJA KRISTO DASS LAW, THANTHANIA RAJBATI
	2A,	BIDHAN SARANI	110380500012				
12	50,	RAJA RAMMOHAN SARANI	110382500088 110382500090	IIA	SCHOOL / COLLEGE (INCL. HOSTEL)		HINDU ACADEMY, AMHERST STREET
13	93/1,	ACHARYA PRAFULLA CHANDRA ROAD	110380100344	IIA	PUBLIC INSTITUTION		BOSE INSTITUTE, ALSO NOTED FOR ARCHITECTURAL STYLE.
14	12,	KAILASH BOSE STREET	110381800064	IIA	ARCHITECTURAL STYLE		
15	1,	BECHU CHATTERJEE STREET	110380400017	IIA	ARCHITECTURAL STYLE		
16	47,	KESHAB CHANDRA SEN STREET	110381900277	IIA	ARCHITECTURAL STYLE		
	45,	KESHAB CHANDRA SEN STREET	110381900265				
17	40,	MAHENDRA SREEMANI STREET	110382000249	IIA	ARCHITECTURAL STYLE		
18	46A,	BIPLABI PULIN DAS STREET	110380700608 110380700773	IIA	ARCHITECTURAL STYLE		
19	20A,	BIDHAN SARANI	110380500206	IIA	ARCHITECTURAL STYLE		ARYAKANYA VIDYALAYA
20	12,	BIDHAN SARANI	110380500152	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		MAHESH CHANDRA ATARTHI & PREMANKUR ATARTHI
21	13A,	BIDHAN SARANI	110380500164	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		UPENDRA KISHORE RAYCHAUDHURI DWARAKANATH - KADAMBINI GANGULY, RAMKUMAR VIDYARATNA
22	12,	SHIBNARAIN DAS LANE	110382900819 110382900200	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RAMCHANDRA MITRA



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
23	6,	GURUPRASAD CHOWDHURY LANE	110381300134	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		KADAMBINI GANGULY
24	23/1/1,	GURUPRASAD CHOWDHURY LANE	110381300407	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		JADUNATH BOSE
	23/1/2,	GURUPRASAD CHOWDHURY LANE	110381300419				
			110381301011				
25	11A,	GURUPRASAD CHOWDHURY LANE	110381300924	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		REV. KRISHNAMOHAN BANERJEE
	11B,	GURUPRASAD CHOWDHURY LANE	110381300894				
	11E,	GURUPRASAD CHOWDHURY LANE	110381300201				
	11D,	GURUPRASAD CHOWDHURY LANE	110381300195				
	11C,	GURUPRASAD CHOWDHURY LANE	110381300882				
26	14,	PARSIBAGAN LANE	110382200147	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		GIRINDRASEKHAR BOSE & RAJSHEKHAR BOSE
	14/1,	PARSIBAGAN LANE	110382200159				
27	2,	KAILASH BOSE STREET	110381800015	IIB	ARCHITECTURAL STYLE		
28	23A,	BECHU CHATTERJEE STREET	110380401447	IIB	ARCHITECTURAL STYLE		
29	23B,	BECHU CHATTERJEE STREET	110380400406	IIB	ARCHITECTURAL STYLE		
30	80B,	BECHU CHATTERJEE STREET	110380401241	IIB	ARCHITECTURAL STYLE		
	80C,	BECHU CHATTERJEE STREET	110380401253				
	80A,	BECHU CHATTERJEE STREET	110380400947				
31	102,	RAJA RAMMOHAN SARANI	110382500441	IIB	ARCHITECTURAL STYLE		RAM MOHAN HALL
32	17,	BIDHAN SARANI	110380500190	IIB	SCHOOL / COLLEGE (INCL. HOSTEL)		VIDYASAGAR COLLEGE PREVIOUSLY HOSTEL
33	13/1,	SHIBNARAIN DAS LANE	110382900236	IIB	ARCHITECTURAL STYLE		
WARD : 039							
1	51,	MADAN MOHAN BURMAN STREET	110390800046	I	PARK, WATERBODY & MEMORIAL		MARCUS SQUARE
2	166,	CHITTARANJAN AVENUE	110390300098	I	PUBLIC INSTITUTION		MAHAJATI SADAN
3		COLLEGE STREET		I	MARKET		COLLEGE STREET MARKET (CENTRAL TOWER)



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4	223/1, 223,	BIDHAN SARANI BIDHAN SARANI	110390200134 110390200146 110390200158 110390200079	I	ARCHITECTURAL STYLE		HOUSE OF LAW FAMILY
WARD : 040							
1	18B, 18D, 18A, 18C,	RADHANATH MALLIK LANE RADHANATH MALLIK LANE RADHANATH MALLIK LANE RADHANATH MALLIK LANE	110402100503 110402100643 110402100497 110402100631	I	RELIGIOUS / HINDU TEMPLE		THAKURBARI OF BASUMULLICK FAMILY INCLUDING CAST IRON FIGURES
2	53/1, 53/2, 53/3, 53/4, 53/5, 53/6, 53/7,	COLLEGE STREET COLLEGE STREET COLLEGE STREET COLLEGE STREET COLLEGE STREET COLLEGE STREET	110400800972 110400800870 110400800881 110400800893 110400800900 110400800911 110400800923	I	PARK, WATERBODY & MEMORIAL		COLLEGE SQUARE INCLUDING STATUES OF PANDIT ISWARCHANDRA VIDYASAGAR, ACHARYA PRAFULLA CHANDRA ROY. FIRST WORLD WAR MEMORIAL CENOTAPH & DAVID HARE'S GRAVE
3	1B,	BANKIM CHATTERJEE STREET	150400100032 150400100500	I	SCHOOL / COLLEGE (INCL. HOSTEL)		HINDU SCHOOL
4	1A, 1,	BANKIM CHATTERJEE STREET BANKIM CHATTERJEE STREET	150400100494 150400100020 150400100019 150400100482	I	SCHOOL / COLLEGE (INCL. HOSTEL)		SANSKRIT COLLEGE INCLUDING STATUES OF PANDIT ISWARCHANDRA VIDYASAGAR & MAHES NYAYARATNA
5	15,	BANKIM CHATTERJEE STREET	110400100305	I	PUBLIC INSTITUTION		ALBERT HALL NOW INDIAN COFFEE HOUSE
6	7,	BANKIM CHATTERJEE STREET	110400100512 150400100184	I	PUBLIC INSTITUTION		CALCUTTA UNIVERSITY INSTITUTE



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
7		BANKIM CHATTERJEE STREET		I	PUBLIC INSTITUTION		BENGAL THEOSOPHICAL SOCIETY
8	4A,	BANKIM CHATTERJEE STREET	110400100366	I	RELIGIOUS/BUDDHIST TEMPLE		DHARMARAJIKA VIHAR
9	57,	SITARAM GHOSH STREET	110402901615	I	RELIGIOUS/HINDU TEMPLE		DALAN TEMPLE OF RADHAGOBINDA INCLUDING CAST IRON FIGURES
10		MAHATMA GANDHI ROAD		I	STATUE	JUNCTION OF COLLEGE STREET AND MAHATMA GANDHI ROAD	KRISTO DAS PAL
11	54/4,	COLLEGE STREET	110400800224	IIA	PRESS AND MEDIA	POPULARLY KNOWN AS 54/3, COLLEGE STREET	DASGUPTA & CO IS HOUSED HERE.
	54/1,	COLLEGE STREET	110400800212				
12	13,	SURYA SEN STREET	110403200207	IIA	SCHOOL / COLLEGE (INCL. HOSTEL)		CITY COLLEGE, MIRZAPUR STREET
13	118C,	RAJA RAMMOHAN SARANI	110402300243	IIA	HOSPITAL AND MEDICAL ESTABLISHMENT		S. B. S. M. MARWARI HOSPITAL, AMHERST STREET
	118B,	RAJA RAMMOHAN SARANI	110402300231				
	118A,	RAJA RAMMOHAN SARANI	110402300220				
14	13/1,	BANKIM CHATTERJEE STREET	110400100287	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SHYAMACHARAN DEY
	13,	BANKIM CHATTERJEE STREET	110400100275				
15	42B,	KESHAB CHANDRA SEN STREET	110401100805	IIB	ARCHITECTURAL STYLE		
	42A,	KESHAB CHANDRA SEN STREET	110401100246				
WARD : 041							
1	236,	RABINDRA SARANI	110412100580	I	RELIGIOUS / BRAHMO PRAYER HALL		BRAHMO PRAYER HALL - ADI
2	46,	MUKTARAM BABU STREET	110411700446	I	ARCHITECTURAL STYLE		MARBLE PALACE INCLUDING JAGANNATH TEMPLE (PRECINCT).
	44,	MUNSHI SADARUDDIN LANE	110411800271				
3	17,	BAL MUKUND MACKAR ROAD	110410100162	IIA	ARCHITECTURAL STYLE		HAVELI
WARD : 042							
1	172A,	MAHATMA GANDHI ROAD	110421500745	I	RELIGIOUS / SIKH GURDWARA	POPULARLY KNOWN AS 172, MAHATMA GANDHI ROAD	BARA SIKH SANGAT
	172B,	MAHATMA GANDHI ROAD	110421501180				
2		UTKALMANI GOPABANDHU SARANI		I	RELIGIOUS / SIKH GURDWARA	POPULARLY KNOWN AS 112, UTKALMANI GOPABANDHU SARANI	CHOTA SIKH SANGAT
3	15/1,	SAHID NITYANANDA SAHA SARANI	110422900299	I	RELIGIOUS/CHRISTIAN CHURCH		PORTUGUESE CHURCH - OUR LADY OF THE ROSARY



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	15,	SAHID NITYANANDA SAHA SARANI	110422900263				
4		UTKALMANI GOPABANDHU SARANI		I	RELIGIOUS/JAIN TEMPLE	POPULARLY KNOWN AS 139, UTKALMANI GOPABANDHU SARANI	SWETAMBAR PANCHAYET TEMPLE
5	10,	SAHID NITYANANDA SAHA	110422900287	I	RELIGIOUS/MOSQUE		IMAMBARA OF AGA KARBULAI MOHAMMED
WARD : 043							
1	8,	SYED SALLEY LANE	110433000067	I	PUBLIC INSTITUTION		THE CALCUTTA MUSLIM ORPHANAGE
2	13,	DAMZEN LANE	110431000210	I	RELIGIOUS/CHINESE TEMPLE		NAM SOON CHURCH
3	17,	BLACKBURN LANE	110430100040	I	RELIGIOUS/CHINESE TEMPLE		SEA VOI YUNE LEONG FUTH CHURCH
4	17A, 17/1A,	TIRETTA BAZAR STREET	110433300191 110433300300	I	RELIGIOUS/CHINESE TEMPLE		CHINESE CHURCH
5	1,	ZAKARIA STREET	110433500120	I	RELIGIOUS/MOSQUE		NAKHODA MOSQUE
	86,	RABINDRA SARANI	110432500354				
6	127,	CHITTARANJAN AVENUE	110430400046	IIB	SCHOOL / COLLEGE (INCL. HOSTEL)		MUTTY LALL SEAL'S FREE COLLEGE
WARD : 044							
1	2A,	GOPAL CHANDRA LANE	110441400299 110441400342 110441400330 110441400329 110441400317 110441400305	I	ARCHITECTURAL STYLE		BADAN ROY'S HOUSE INCLUDING CAST IRON FIGURES.
2	130,	CHITTARANJAN AVENUE	110440600530	I	PARK, WATERBODY & MEMORIAL		MOHAMMED ALI PARK INCLUDING UNDERGROUND RESERVOIR.
3	87,	COLLEGE STREET	150441000030 150441000121	I	SCHOOL / COLLEGE (INCL. HOSTEL)		HARE SCHOOL INCLUDING STATUE OF DAVID HARE
4	86/1,	COLLEGE STREET	150441000110 150441000029	I	SCHOOL / COLLEGE (INCL. HOSTEL)		PRESIDENCY COLLEGE
5	3,	PYARI SARKAR STREET	150442900061 150442900024 150442900036 150442900050	I	SCHOOL / COLLEGE (INCL. HOSTEL)		EDEN HINDU HOSTEL



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
6	1,	ANAGARIKA DHARMAPALA STREET	110440100016	I	SCHOOL / COLLEGE (INCL. HOSTEL)		UNIVERSITY OF CALCUTTA, COLLEGE STREET CAMPUS INCLUDING STATUE OF PRASANNA KUMAR TAGORE
7	276,	BEPIN BEHARI GANGULY STREET	110440200011	I	PUBLIC INSTITUTION		CALCUTTA SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS
8	90/6A, 86A, 90/7A,	MAHATMA GANDHI ROAD COLLEGE STREET MAHATMA GANDHI ROAD	110442100019 110441000017 110442100020	I	PUBLIC INSTITUTION		Y.M.C.A. COLLEGE STREET
9	88,	COLLEGE STREET	150441000066 150441000042 150441000078 150441000080 150441000133 150441000157 150441000145 150441000169	I	HOSPITAL AND MEDICAL ESTABLISHMENT		MEDICAL COLLEGE
10	104,	CHITTARANJAN AVENUE	150440600244 150440600566	I	HOSPITAL AND MEDICAL ESTABLISHMENT		SCHOOL OF TROPICAL MEDICINE
11	110,	CHITTARANJAN AVENUE	150440600268	I	PUBLIC INSTITUTION		ALL INDIA INSTITUTE OF HYGIENE AND PUBLIC HEALTH
12	22,	BLACKBURN LANE	110440400176	I	ARCHITECTURAL STYLE		TOONG OON CHINESE CHURCH AND NANKING RESTAURENT
13	13,	BLACKBURN LANE	110440400048	I	RELIGIOUS / CHINESE TEMPLE		GEE HING CHURCH
14	22/1A,	CHATAWALLA GULLE	110440500444	I	RELIGIOUS / CHINESE TEMPLE		SEA IP CHURCH
15	2/2,	NILMADHAB SEN LANE	150442600200 150442600193 150442600030	I	RELATED TO ESTABLISHMENT		CORONER'S COURT
16	136,	CHITTARANJAN AVENUE	150440600529	IIA	RELATED TO ESTABLISHMENT		FIRE BRIGADE HEADQUARTERS
17	60B, 60B/1, 60C, 60D,	MAULANA SHAWKAT ALI STREET MAULANA SHAWKAT ALI STREET MAULANA SHAWKAT ALI STREET MAULANA SHAWKAT ALI STREET	110442300203 110442300422 110442300215 110442300227	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		MATILAL SEAL



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
18	280,	BEPIN BEHARI GANGULY STREET	110440200047	IIB	ARCHITECTURAL STYLE		
WARD : 045							
1	32,	DALHOUSIE SQUARE	110451300027	I	ARCHITECTURAL STYLE		INCLUDING GATEWAY ON VANSITTART ROW ENTRANCE
	32/1,	DALHOUSIE SQUARE	110451300039				
2		ESPLANADE ROW WEST		I	LANDMARK	ADJACENT TO BIDHANSABHA BHAVAN	FRASER MACDONELL FOUNTAIN
3	3,	SAHID KSHUDIRAM BOSE ROAD	170454600022 110454600034	I	PRESS AND MEDIA		AKASHVANI BHAWAN
4		EDEN GARDEN ROAD		I	PARK, WATERBODY & MEMORIAL		EDEN GARDENS
5		ESPLANADE ROW WEST		I	PARK, WATERBODY & MEMORIAL	OPPOSITE TEMPLE CHAMBER	MEMORIAL ADJOINING BIDHANSABHA BHAVAN
6		DALHOUSIE SQUARE NORTH		I	PARK, WATERBODY & MEMORIAL	ON THE SOUTHERN SIDE OF WRITERS' BUILDING	COLESWORTHY GRANT MEMORIAL
7		STRAND ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	VIDYASAGAR SETU TO RABINDRA SETU	OUTRAM GHAT
8		STRAND ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	VIDYASAGAR SETU TO RABINDRA SETU	BABU GHAT
9		STRAND ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	VIDYASAGAR SETU TO RABINDRA SETU	MUTTY SEAL'S GHAT
10		STRAND ROAD		I	RIVERFRONT STRUCTURE	OPPOSITE MUTTY SEAL'S GHAT	STRAND WAREHOUSE
11	4,	ESPLANADE ROW WEST	110451600047	I	RELATED TO ESTABLISHMENT		TOWN HALL
	4/1,	ESPLANADE ROW WEST	110451600059				
12	12,	STRAND ROAD	150454900078	I	RELATED TO ESTABLISHMENT		METCALFE HALL
13	31,	DALHOUSIE SQUARE	110451300015	I	OFFICE		HONGKONG BANK
14	8,	COUNCIL HOUSE STREET	150451200070	I	OFFICE		FORMER RESERVE BANK BUILDING
15	7,	COUNCIL HOUSE STREET	110451200082	I	OFFICE		L.I.C. BUILDING
16	4,	BANKSHALL STREET	110450200086	I	OFFICE		WALLACE HOUSE
17	15/1,	STRAND ROAD	150454900121 150454900303 170454900017	I	OFFICE		CUSTOMS HOUSE
18	26,	STRAND ROAD	110454900212 110454900200	I	OFFICE		



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
19	6,	LYONS RANGE	ALL ASSESSEES ASSIGNED TO THE PREMISE	I	OFFICE		TURNER MORRISON & CO
20	14,	INDIA EXCHANGE PLACE	110452300023	I	OFFICE		ALLAHABAD BANK
21	4,	NETAJI SUBHAS ROAD	110453300109	I	OFFICE		CHARTERED BANK BUILDINGS
22	6,	NETAJI SUBHAS ROAD	110453300110	I	OFFICE		ROYAL EXCHANGE BUILDING
23	1,	CLIVE BUILDINGS	110450900011	I	OFFICE	POPULARLY KNOWN AS 8, NETAJI SUBHAS ROAD	GILLANDER HOUSE
24	2,	DR. RAJENDRA PRASAD SARANI	110451000780	I	OFFICE		LIC (FORMER ORIENTAL ASSURANCE) BUILDING
25	8,	DR. RAJENDRA PRASAD SARANI	110451000019	I	OFFICE		YULE HOUSE
26	14,	NETAJI SUBHAS ROAD	110453300973 110453300985 110453300158 110453300997 110453300961 110453302740	I	OFFICE		
27	31,	NETAJI SUBHAS ROAD	110453300298	I	OFFICE		DUNCAN HOUSE
28	29,	NETAJI SUBHAS ROAD	110453300286	I	OFFICE		LIC (FORMER NORTH BRITISH & MERCANTILE ASSURANCE) BUILDING
29	21,	NETAJI SUBHAS ROAD	110453300213	I	OFFICE		BALMER LAWRIE
30	2,	NETAJI SUBHAS ROAD	110453300419 110453300092 110453300407	I	OFFICE		ALLAHABAD BANK
31	16,	STRAND ROAD	110454900133	I	OFFICE		MACKINNON MACKENZIE & CO. LTD.
32	5,	NETAJI SUBHAS ROAD	110453300067	I	OFFICE		ROYAL INSURANCE BUILDING
33	3,	NETAJI SUBHAS ROAD	110453300020	I	OFFICE		BANK OF MAHARASHTRA, MACLEOD HOUSE
34	6,	OLD POST OFFICE STREET	110453600040	I	OFFICE		TEMPLE CHAMBER
35	1A,	BONFIELD LANE	110450500069 110450500070	I	SHOP		BUTTO KRISTO PAUL



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
36	1,	ARMENIAN STREET	110450100018	I	RELIGIOUS / CHRISTIAN CHURCH		ARMENIAN CHURCH INCLUDING BURIAL GROUND.
	2,	ARMENIAN STREET	110450100067				
	2/1,	ARMENIAN STREET	110450100020				
	2/2A,	ARMENIAN STREET	110450100080				
37	109,	BIPLABI RASH BEHARI BASU ROAD		I	RELIGIOUS / JEWISH SYNAGOGUE		MAGHEN DAVID
38	9,	INDRA KUMAR KARNANI STREET		I	RELIGIOUS / JEWISH SYNAGOGUE	POPULARLY KNOWN AS 9 JACKSON LANE & 9 SYNAGOGUE STREET	NEVEH SALOME
39	26/1,	POLLOCK STREET		I	RELIGIOUS / JEWISH SYNAGOGUE		BETH-EL
40	26,	EZRA STREET	110451700479	I	RELIGIOUS / PARSİ FIRE TEMPLE		RUSTOMJEE KAWASJEE BANAJEES FIRE TEMPLE
	27,	EZRA STREET	110451700169				
	31,	EZRA STREET	110451700170				
	19,	PARSI CHURCH STREET	110453800120				
41	15,	STRAND ROAD		I	RELATED TO ESTABLISHMENT		KOLKATA PORT TRUST OFFICE
42	9,	NETAJI SUBHAS ROAD	150453300055	I	RELATED TO ESTABLISHMENT		GENERAL POST OFFICE
43	7,	KAYLAGHAT STREET	150452500012	I	RELATED TO ESTABLISHMENT		DEPUTY A.G., P & T
44	8,	RED CROSS PLACE	150454500143	I	RELATED TO ESTABLISHMENT		CENTRAL TELEGRAPH OFFICE
45	33,	DALHOUSIE SQUARE	150451300040	I	RELATED TO ESTABLISHMENT		TELEGRAPH CHECK OFFICE
46	4,	OLD POST OFFICE STREET	150453600142	I	RELATED TO ESTABLISHMENT		HIGH COURT INCLUDING STATUE OF SIR EDWARD HYDE EAST AND ALL OTHER BUSTS AND STATUES IN HIGH COURT
			150453600038				
	3,	ESPLANADE ROW WEST	150451600011				
47	2,	BANKSHALL STREET	150450200098	I	RELATED TO ESTABLISHMENT		BANKSHALL COURT
			150450200025				
	3,	BANKSHALL STREET	150450200037				
			150450200104				
48	1,	BANKSHALL STREET	150450200013	I	RELATED TO ESTABLISHMENT		EASTERN RAILWAY OFFICE
49	17,	NETAJI SUBHAS ROAD	150453300043	I	RELATED TO ESTABLISHMENT	POPULARLY KNOWN AS 6, FAIRLIE PLACE	EASTERN RAILWAY OFFICE
50	15,	NETAJI SUBHAS ROAD	150453300031	I	RELATED TO ESTABLISHMENT		RESERVE BANK
	15/1A,	NETAJI SUBHAS ROAD	110453300481				
	13,	NETAJI SUBHAS ROAD	150453300080				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
51	11, 11/1, 3,	STRAND ROAD STRAND ROAD CHURCH LANE	150454900054 150454900066 150450600027	I	RELATED TO ESTABLISHMENT		GOVERNMENT STATIONERY OFFICE
52	5,	GOVERNMENT PLACE	150452000064 150452000052	I	RELATED TO ESTABLISHMENT		REGISTRAR OF ASSURANCE
53				I	RELATED TO ESTABLISHMENT	POPULARLY KNOWN AS 6, GOVERNMENT PLACE	ST. JOHN'S AMBULANCE
54	2/2, 2/1,	COUNCIL HOUSE STREET COUNCIL HOUSE STREET	110451200112 110451200021	I	RELIGIOUS/CHRISTIAN CHURCH		ST. JOHN'S CHURCH INCLUDING HOLWELL MONUMENT, ROHILLA MEMORIAL MONUMENT & MAUSOLEUM OF JOB CHARNOCK
55	1,	GOVERNMENT PLACE	150452000015	I	RELATED TO ESTABLISHMENT		RAJ BHAVAN
56		ESPLANADE ROW WEST		I	RELATED TO ESTABLISHMENT		BIDHAN SABHA BHAVAN
57	16,	DALHOUSIE SQUARE NORTH	150451400034 150451400010	I	RELATED TO ESTABLISHMENT		WRITERS' BUILDING (MAHAKARAN)
58	2, 3,	GOVERNMENT PLACE GOVERNMENT PLACE	150452000027 150452000039	I	RELATED TO ESTABLISHMENT		TREASURY BUILDINGS
59	1,	COUNCIL HOUSE STREET	150451200010	I	RELATED TO ESTABLISHMENT		GOVT. OF INDIA COMMERCE & INDUSTRY DEPARTMENT
60	1, 17,	RABINDRA SARANI LALBAZAR STREET	150454100281 150454100049 150452700062 150452700013	I	RELATED TO ESTABLISHMENT		POLICE HEADQUARTERS
61	11,	NETAJI SUBHAS ROAD	150453300493 150453300079	I	RELATED TO ESTABLISHMENT		CALCUTTA COLLECTORATE
62	5, 5/1, 5/2, 6, 6/1, 1,	RED CROSS PLACE RED CROSS PLACE RED CROSS PLACE RED CROSS PLACE RED CROSS PLACE PANNALAL BANERJEE LANE	150454500052 150454500064 150454500076 150454500088 150454500090 150453700010	I	RELATED TO ESTABLISHMENT		GOVERNOR'S ESTATES
63		GOVERNMENT PLACE		I	STATUE	NEAR RAJBHAVAN	DESHBANDHU CHITTARANJAN DAS
64		DALHOUSIE SQUARE		I	STATUE	BIDHAN SAROVAR (LAL DIGHI)	MAHARAJA LAKSMISWAR SINGH OF DARBHANGA
65		FAIRLIE PLACE		I	PARK, WATERBODY & MEMORIAL		PRINCE OF WALES' VISIT MEMORIAL
66		GOVERNMENT PLACE		I	STATUE	NEAR AKASHBANI BHAVAN	HEMANTA KUMAR BOSE



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
67		ESPLANADE ROW WEST		I	STATUE	NEAR RAJBHAVAN AND AKASHVANI BHAVAN	SARAT CHANDRA BOSE
68		DALHOUSIE SQUARE NORTH		I	STATUE		BIDHAN CHANDRA ROY
69		SAHID KSHUDIRAM BOSE ROAD		I	STATUE	IN FRONT OF HIGH COURT(ANNEX BUILDING)	KSHUDIRAM BOSE
70		STRAND ROAD		I	STATUE	NEAR BABUGHAT	BANKIMCHANDRA CHATTOPADHYAYA
71		ESPLANADE ROW WEST		I	STATUE	NEAR HIGH COURT	SURYA SEN
72		DALHOUSIE SQUARE NORTH		I	PARK, WATERBODY & MEMORIAL	OPPOSITE WRITERS' BUILDING	MANGAL MINAR & MEMORIAL OF BARANDA BATTLE
73		OLD POST OFFICE STREET		I	LANDMARK	NEAR TEMPLE CHAMBERS	STREET ORDERLY BIN (CAST IRON)
74	15,	DALHOUSIE SQUARE NORTH	11045140022	I	RELIGIOUS/CHRISTIAN CHURCH		ST. ANDREWS CHURCH, SCOTTISH CHURCH
75		DALHOUSIE SQUARE		I	PARK, WATERBODY & MEMORIAL		BIDHAN SAROVAR (LAL DIGHI)
76		LAWRENCE ROAD		I	STATUE		LOKAMANYA TILAK
77	21,	STRAND ROAD	110454900157	IIA	OFFICE		KETTLEWELL BULLEN & CO
78	29,	STRAND ROAD	110454900340	IIA	OFFICE		MOHTAHOUSE
79	4,	LYONS RANGE	110453000011	IIA	OFFICE		NEW INDIA ASSURANCE
80	7,	LYONS RANGE	110453000035	IIA	OFFICE		STOCK EXCHANGE OF INDIA
81	15,	INDIA EXCHANGE PLACE	110452300035	IIA	OFFICE		UNION BANK OF INDIA
82	10,	NETAJI SUBHAS ROAD	110453300122	IIA	OFFICE		COAL INDIA
83	49,	NETAJI SUBHAS ROAD	110453300420	IIA	OFFICE		
	57,	NETAJI SUBHAS ROAD	110453300389				
	47,	NETAJI SUBHAS ROAD	110453300377				
	51,	NETAJI SUBHAS ROAD	110453300432				
	53,	NETAJI SUBHAS ROAD	110453300444				
	55,	NETAJI SUBHAS ROAD	110453300456				
	59,	NETAJI SUBHAS ROAD	110453300468				
	61,	NETAJI SUBHAS ROAD	110453300470				
	18,	BIPLABI RASH BEHARI BASU ROAD	110450300354				
	17,	BIPLABI RASH BEHARI BASU ROAD	110450300342				
84	12,	INDIA EXCHANGE PLACE	110452300126	IIB	OFFICE		JUTE HOUSE



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 046							
1		SIDO-KANHU DAHAR		I	PARK, WATERBODY & MEMORIAL		SHAHID MINAR
2	14,	MADAN STREET	110463900139	I	PUBLIC INSTITUTION		HINDU MUTUAL HOUSE
3	5,	JAWAHARLAL NEHRU ROAD	110463400076	I	RECREATIONAL		METRO CINEMA HALL
4	15/7,	JAWAHARLAL NEHRU ROAD	110463400258	I	RECREATIONAL		GRAND HOTEL
	15/9,	JAWAHARLAL NEHRU ROAD	110463400260				
	16A,	JAWAHARLAL NEHRU ROAD	110463400271				
	16/2,	JAWAHARLAL NEHRU ROAD	110463400283				
	16/3,	JAWAHARLAL NEHRU ROAD	110463400295				
	16/5,	JAWAHARLAL NEHRU ROAD	110463400301				
	17,	JAWAHARLAL NEHRU ROAD	110463400313				
	6A,	CHOWRINGHEE PLACE	110461200035				
	7A,	CHOWRINGHEE PLACE	110461200047				
	7B,	CHOWRINGHEE PLACE	110461200059				
	8A,	CHOWRINGHEE PLACE	110461200060				
	9A,	CHOWRINGHEE PLACE	110461200072				
	9B,	CHOWRINGHEE PLACE	110461200084				
	15/6,	JAWAHARLAL NEHRU ROAD	110463400246				
	15/4,	JAWAHARLAL NEHRU ROAD	110463400234				
	15/3,	JAWAHARLAL NEHRU ROAD	110463400222				
	15/2,	JAWAHARLAL NEHRU ROAD	110463400210				
	15A,	JAWAHARLAL NEHRU ROAD	110463400192				
	15/1,	JAWAHARLAL NEHRU ROAD	110463400209				
5	2A,	CHOWRINGHEE SQUARE	110461300121	I	OFFICE		TOWER HOUSE
	2B,	CHOWRINGHEE SQUARE	110461300133				
6	5,	CHOWRINGHEE SQUARE	110461300157	I	OFFICE		VICTORIA HOUSE, CESC OFFICE
7	19,	NELLIE SEN GUPTA SARANI	110464900275	I	ARCHITECTURAL STYLE		SIR STUART HOGG MARKET (NEW MARKET) INCLUDING CLOCK TOWER
8	91,	METCALFE STREET	110464600814	I	RELIGIOUS / PARSIFIRE TEMPLE		PARSI FIRE TEMPLE
9	1,	SIDO-KANHU DAHAR	150466200190	I	ARCHITECTURAL STYLE		ESPLANADE MANSION (RAILWAY PUBLIC RELATIONS & PUBLICITY)
			110466200049				
	2,	SIDO-KANHU DAHAR	150466200207				
			110466200050				
	1,	ESPLANADE MANSIONS	110462400019				
	2,	ESPLANADE MANSIONS	110462400020				
	3,	ESPLANADE MANSIONS	110462400032				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4,		ESPLANADE MANSIONS	110462400044				
			170462400019				
5,		ESPLANADE MANSIONS	110462400056				
6,		ESPLANADE MANSIONS	110462400068				
7,		ESPLANADE MANSIONS	110462400070				
8,		ESPLANADE MANSIONS	110462400081				
			170462400020				
9,		ESPLANADE MANSIONS	110462400093				
10,		ESPLANADE MANSIONS	110462400100				
11,		ESPLANADE MANSIONS	110462400111				
12,		ESPLANADE MANSIONS	110462400123				
13,		ESPLANADE MANSIONS	110462400135				
14,		ESPLANADE MANSIONS	110462400147				
15,		ESPLANADE MANSIONS	110462400159				
16,		ESPLANADE MANSIONS	110462400160				
17,		ESPLANADE MANSIONS	110462400172				
18,		ESPLANADE MANSIONS	110462400184				
19,		ESPLANADE MANSIONS	110462400196				
20,		ESPLANADE MANSIONS	110462400202				
21,		ESPLANADE MANSIONS	110462400214				
22,		ESPLANADE MANSIONS	110462400226				
23,		ESPLANADE MANSIONS	110462400238				
24,		ESPLANADE MANSIONS	110462400240				
10	4,	SIDO-KANHU DAHAR	110466200177	I	ARCHITECTURAL STYLE		
11	8,	SIDO-KANHU DAHAR	110466200189	I	ARCHITECTURAL STYLE		
12	66,	METCALFE STREET	110464600802	I	ARCHITECTURAL STYLE		
13	5,	SURENDRANATH BANERJEE ROAD	110466300573	I	RELATED TO ESTABLISHMENT		CENTRAL MUNICIPAL OFFICE, THE KOLKATA MUNICIPAL CORPORATION
14	31B,	BEPIN BEHARI GANGULY STREET	110460400340	I	RELIGIOUS / CHRISTIAN CHURCH		CAREY BAPTIST CHURCH
	31A,	BEPIN BEHARI GANGULY STREET	110460400351				
15	2,	LENIN SARANI	110463800029	I	RELIGIOUS / CHRISTIAN CHURCH		CHURCH OF THE SACRED HEART OF JESUS
	4,	LENIN SARANI	110463800455				
	3,	LENIN SARANI	110463800443				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
16	185B,	LENIN SARANI	110463801198	I	RELIGIOUS/MOSQUE	CORNER OF THE ESPLANADE POPULARLY KNOWN AS 185 LENIN SARANI	PRINCE GOLAM MOHAMMED MOSQU
17	5,	SIDO-KANHU DAHAR	150466200074	I	RELATED TO ESTABLISHMENT		ORDNANCE FACTORY BOARD - OFFICE OF CHIEF CONTROLLER OF ACCOUNTS.
	6,	SIDO-KANHU DAHAR	150466200086				MILITARY ACCOUNTS OFFICE
18		SIDO-KANHU DAHAR		I	STATUE	SURENDRANATH PARK	RASHBEHARI BOSE
19		RED ROAD		I	STATUE	MAIDAN	B. R. AMBEDKAR
20		RED ROAD		I	STATUE	JUNCTION OF RED ROAD AND GURU NANAK SARANI	MATANGINI HAZRA
21		RED ROAD		I	STATUE		MICHAEL MADHUSUDAN DUTTA
22		SIDO-KANHU DAHAR		I	PARK, WATERBODY & MEMORIAL		SURENDRANATH PARK INCLUDING PANIOTY FOUNTAIN AND CTC OFFICE
23		RED ROAD		I	STATUE		SHYAMAPRASAD MUKHOPADHYAYA
24		RASHMONI AVENUE		I	STATUE	SURENDRANATH PARK	SIR HARIRAM GOENKA
25	2,	CHANDNEY APPROACH	110460800031	I	RELIGIOUS/CHINESE TEMPLE	POPULARLY KNOWN AS 19/20 NEW MEREDITH STREET	CHOONG YE THONG CHURCH
26		RED ROAD		I	PARK, WATERBODY & MEMORIAL		FIRST WORLD WAR MEMORIAL CENOTAPH AT KOLKATA MAIDAN
27	3,	RAJENDRANATH MUKHERJEE ROAD	110465500037	I	RELIGIOUS/CHRISTIAN CHURCH		OLD MISSION CHURCH
	5,	RAJENDRANATH MUKHERJEE ROAD	110465500426				
28		SIDO-KANHU DAHAR		I	LANDMARK	CURZON PARK (SURENDRANATH PARK)	PANIOTY FOUNTAIN
29		CHOWRINGHEE SQUARE		I	STATUE	IN FRONT OF VICTORIAL HOUSE	SIR ASHUTOSH MUKHOPADHYAY
30		RASHMONI AVENUE		I	STATUE	SURENDRANATH PARK	SURENDRANATH BANDYOPADHYAY
31	4,	CHITTARANJAN AVENUE	110461000241	I	STATUE	AT GROUND FLOOR OF HINDUSTHAN BUILDINGS	NALINIRANJAN SARKAR
32	14,	HEMANTA BASU SARANI	110463100330	I	RECREATIONAL		PELITI-FIRPO IN WHICH PELITI'S RESTAURANT WAS LOCATED



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
33	1,	HUMAYAN PLACE	110463300010	I	RECREATIONAL		NEW EMPIRE CINEMA HALL
34		JAWAHARLAL NEHRU ROAD		I	PARK, WATERBODY & MEMORIAL		MANOHAR DAS TARAG INCLUDING FOUR CORNER KIOSKS
35		GURU NANAK SARANI		I	STATUE	JUNCTION OF GURU NANAK SARANI AND DUFFERIN ROAD	MAHATMA GANDHI
36		SIDO-KANHU DAHAR		I	STATUE	SURENDRA NATH PARK	LENIN
37	1,	SURENDRA MOHAN GHOSH SARANI	150464000010	I	RELATED TO ESTABLISHMENT		CURRENCY BUILDING
38	7,	JAWAHARLAL NEHRU ROAD	110463400090	I	RELATED TO ESTABLISHMENT		WHITEAWAY LAIDLAW NOW METROPOLITAN INSURANCE BUILDING
39	4,	CHOWRINGHEE SQUARE	110461300145	IIA	PRESS AND MEDIA		STATESMAN HOUSE
40	134,	SURENDRANATH BANERJEE ROAD	110466300421	IIA	PUBLIC INSTITUTION		Y.W.C.A.
41	4B, 4A,	CHOWRINGHEE PLACE CHOWRINGHEE PLACE	110461200126 110461200114	IIA	RECREATIONAL		ROXY CINEMA HALL
42	1,	RAJENDRA NATH MUKHERJEE ROAD	ALL ASSESSEES ASSIGNED TO THE PREMISE	IIA	OFFICE		MARTIN BURN
43	19B, 19A,	JAWAHARLAL NEHRU ROAD JAWAHARLAL NEHRU ROAD	110463400350 110463400349	IIA	ARCHITECTURAL STYLE		LESLIE HOUSE
44	1G, 1F, 1E, 1C, 1B, 1A, 1H, 1J, 1K, 1D,	CHOWRINGHEE SQUARE CHOWRINGHEE SQUARE CHOWRINGHEE SQUARE CHOWRINGHEE SQUARE CHOWRINGHEE SQUARE CHOWRINGHEE SQUARE CHOWRINGHEE SQUARE CHOWRINGHEE SQUARE CHOWRINGHEE SQUARE CHOWRINGHEE SQUARE	110461300078 110461300066 110461300054 110461300030 110461300029 110461300017 110461300080 110461300091 110461300108 110461300042	IIA	ARCHITECTURAL STYLE		PEERLESS BAZAR
45	10A,	HEMANTA BASU SARANI	110463100354	IIA	OFFICE		FRANCIS KLEIN (BRANCH)
46	18,	HEMANTA BASU SARANI	110463100585	IIB	RECREATIONAL		GREAT EASTERN HOTEL
47	15,	NELLIE SEN GUPTA SARANI	110464900093	IIB	ARCHITECTURAL STYLE		



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
48	29A,	BENTINCK STREET	110460300150	IIB	ARCHITECTURAL STYLE		
	29/1A,	BENTINCK STREET	110460300149				
	29C,	BENTINCK STREET	110460300137				
	29D,	BENTINCK STREET	110460300162				
	29/1C,	BENTINCK STREET	110460300198				
	29B,	BENTINCK STREET	110460300174				
	29/1B,	BENTINCK STREET	110460300186				
49	1/1,	MEREDITH STREET	110464400060				
50	61,	BENTINCK STREET	110460300320	IIB	ARCHITECTURAL STYLE		
51	28,	SIRAJ-UD-DOULA SARANI	110466400270	IIB	ARCHITECTURAL STYLE		AVERY INDIA LTD
	28/1,	SIRAJ-UD-DOULA SARANI	110466400282				
	28/2,	SIRAJ-UD-DOULA SARANI	110466400294				
52	2,	SIRAJ-UD-DOULA SARANI	110466400014	IIB	ARCHITECTURAL STYLE		
53	21,	BENTINCK STREET	110460300101	IIB	ARCHITECTURAL STYLE		
54	10/1A,	LALBAZAR STREET	110463700096	IIB	ARCHITECTURAL STYLE		
	10/1E,	LALBAZAR STREET	110463700102				
	10M,	LALBAZAR STREET	110463700084				
	9A,	LALBAZAR STREET	110463700072				
55	11/1,	BEPIN BEHARI GANGULY STREET	110460400156	IIB	ARCHITECTURAL STYLE		
	11,	BEPIN BEHARI GANGULY STREET	110460400119				
56	3,	SIDO-KANHU DAHAR	110466200062	IIB	ARCHITECTURAL STYLE		THACKER SPINCK WAS LOCATED HERE
57		SURENDRA NATH BANERJEE ROAD		IIB	ARCHITECTURAL STYLE	141, S. N. BANERJEE ROAD	BOURNE & SHEPHERD (PHOTOGRAPHER)
58	16M,	HEMANTA BASU SARANI	110463100123	IIB	SHOP		CUTHBERTSON & HARPER
	16L,	HEMANTA BASU SARANI	110463100111				
	16K,	HEMANTA BASU SARANI	110463100100				
	16J,	HEMANTA BASU SARANI	110463100093				
	16H,	HEMANTA BASU SARANI	110463100081				
	16G,	HEMANTA BASU SARANI	110463100070				
	16F,	HEMANTA BASU SARANI	110463100068				
	16E,	HEMANTA BASU SARANI	110463100056				
	16D,	HEMANTA BASU SARANI	110463100044				
	16C,	HEMANTA BASU SARANI	110463100032				
	16B,	HEMANTA BASU SARANI	110463100020				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	16A,	HEMANTA BASU SARANI	110463100019				
	16/1H,	HEMANTA BASU SARANI	110463100240				
	16/1J,	HEMANTA BASU SARANI	110463100251				
	16/1Q,	HEMANTA BASU SARANI	110463100317				
	16/1K,	HEMANTA BASU SARANI	110463100263				
	16/1L,	HEMANTA BASU SARANI	110463100275				
	16/1M,	HEMANTA BASU SARANI	110463100287				
	16/1N,	HEMANTA BASU SARANI	110463100299				
	16/1P,	HEMANTA BASU SARANI	110463100305				
	16N,	HEMANTA BASU SARANI	110463100135				
	16P,	HEMANTA BASU SARANI	110463100147				
	16Q,	HEMANTA BASU SARANI	110463100159				
	16R,	HEMANTA BASU SARANI	110463100160				
	16/1R,	HEMANTA BASU SARANI	110463100329				
	16/1G,	HEMANTA BASU SARANI	110463100238				
	16/1A,	HEMANTA BASU SARANI	110463100172				
	16/1B,	HEMANTA BASU SARANI	110463100184				
	16/1C,	HEMANTA BASU SARANI	110463100196				
	16/1F,	HEMANTA BASU SARANI	110463100226				
	16/1E,	HEMANTA BASU SARANI	110463100214				
	16/1D,	HEMANTA BASU SARANI	110463100202				
WARD : 047							
1	62,	BEPIN BEHARI GANGULY STREET	110470300267	I	PUBLIC INSTITUTION		INDIAN ASSOCIATION
2	37,	CHITTARANJAN AVENUE	150471000115 150471000360	I	ARCHITECTURAL STYLE		CALCUTTA POLICE QUARTER
3	68,	BEPIN BEHARI GANGULY STREET	110470300528	I	RELIGIOUS / CHRISTIAN CHURCH		CHURCH OF ST. FRANCIS XAVIER
4		DR. LALIT BANERJEE SARANI		I	RELIGIOUS / HINDU TEMPLE	POPULARLY KNOWN AS 32/1, DR. LALIT BANERJEE SARANI	CHARCHALA SIVA TEMPLE
5	244,	BEPIN BEHARI GANGULY STREET	110470300929	I	RELIGIOUS / HINDU TEMPLE		FIRINGI KALI TEMPLE
6	8,	KAPALITOLA LANE	110472700182	I	RELIGIOUS / HINDU TEMPLE		RAJKRISHNA DAS TEMPLE
7	18/1,	KENDERDINE LANE	110472800103	I	RELIGIOUS / HINDU TEMPLE		TEMPLE COMPLEX OF TRILOKERAM PAKRASHI



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
8	1A, 1B,	BUDDHIST TEMPLE LANE	110470800021 110470800010	I	RELIGIOUS/BUDDHIST TEMPLE		DHARMANKUR VIHAR
9	23,	NIRMAL CHUNDER STREET	110473600304	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		NIRMALCHUNDER CHANDRA
10	36,	NIRMAL CHUNDER STREET	110473600500	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		DR. BIDHAN CHANDRA ROY
11	7A, 7B, 7C, 7D, 41,	KAPALITOLA LANE KAPALITOLA LANE KAPALITOLA LANE KAPALITOLA LANE CHITTARANJAN AVENUE	110472700066 110472700078 110472700080 110472700091 110471000152	IIB	ARCHITECTURAL STYLE		SEN BHAVAN
WARD : 048							
1	1,	BABURAM SIL LANE	110480100530	I	RELIGIOUS / HINDU TEMPLE		THAKURBARI OF RAMKANAI ADHIKARI
2	6/1,	GOBINDA SEN LANE	110481000324	I	RELIGIOUS / HINDU TEMPLE		THAKURBARI OF CHUNIMANI DASI
3	1/1A, 1/1D, 1/1C, 1/1B,	PREM CHAND BORAL STREET PREM CHAND BORAL STREET PREM CHAND BORAL STREET PREM CHAND BORAL STREET	110482000022 110482001750 110482001749 110482001737	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		LALCHAND BORAL
4	84/1A, 84A, 84/3A,	BEPIN BEHARI GANGULY STREET BEPIN BEHARI GANGULY STREET BEPIN BEHARI GANGULY STREET	110480300026 110480300014 110480300038	IIA	BUILDING CONNECTED WITH FREEDOM MOVEMENT		OFFICE OF BENGAL PROVINCIAL STUDENT FEDERATION
WARD : 049							
1	166,	BEPIN BEHARI GANGULY STREET	110490600371	I	PRESS AND MEDIA		DAINIK BASUMATI, NOTED FOR ARCHITECTURAL STYLE ALSO.
2		AKHIL MISTRY LANE		I	RELIGIOUS / HINDU TEMPLE	POPULARLY KNOWN AS 85, AKHIL MISTRY LANE	SIVA & KALI TEMPLE
3		MAHATMA GANDHI ROAD		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 20B, MAHATMA GANDHI ROAD (IN FRONT OF SURENDRANATH COLLEGE)	



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4		MANINDRA NATH MITRA ROW		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 7A, MANINDRA NATH MITRA ROW	
5		JUSTICE MANMATHA MUKHERJEE ROW		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 1B, JUSTICE MANMATHA MUKHERJEE ROW	
6		ACHARYA PRAFULLA CHANDRA ROAD		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 27/2, ACHARYA PRAFULLA CHANDRA ROAD	
7	34/1, 34,	SURYA SEN STREET SURYA SEN STREET	150492200256 110492200311 110492200300	I	PARK, WATERBODY & MEMORIAL		SRADDHANANDA PARK
8	11/1,	MAHATMA GANDHI ROAD	110491200297	IIA	SHOP		A.TOSH & SONS
WARD : 050							
1	130, 131,	LENIN SARANI LENIN SARANI	110500800768 110500801001	I	RELIGIOUS / CHRISTIAN CHURCH		CENTRAL METHODIST EPISCOPAL CHURCH - INDIAN
2	146/1, 146/2, 147,	BEPIN BEHARI GANGULY STREET BEPIN BEHARI GANGULY STREET BEPIN BEHARI GANGULY STREET	110500200315 110500200327 110500200406	I	RELIGIOUS / CHRISTIAN CHURCH		CHURCH OF OUR LADY OF DOLOURS
3	137B, 136, 137A, 137,	LENIN SARANI LENIN SARANI LENIN SARANI LENIN SARANI	110500800896 110500800884 110500801013	I	RELIGIOUS / CHRISTIAN CHURCH		UNION CHAPEL
4		ST JAMES STREET		I	PARK, WATERBODY & MEMORIAL		SANTOSH MITRA SQUARE
5	116A,	ACHARYA JAGADISH CHANDRA BOSE ROAD	150500100280	IIA	RELATED TO ESTABLISHMENT		MUCHIPARA EXCISE BARRACK
6	125A,	BEPIN BEHARI GANGULY STREET	110500200029	IIB	PUBLIC INSTITUTION		THE REFUGE
7	15,	MAHENDRA SARKAR STREET	110501600180	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		DR. MAHENDRALAL SARKAR
8	6,	ST JAMES STREET	150502900079 150502900262	IIB	RELATED TO ESTABLISHMENT		MUCHIPARA P.S.



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 051							
1	15/1,	RAJA SUBODH MULLICK SQUARE	110512900227	I	PARK, WATERBODY & MEMORIAL		RAJA SUBODH MULLICK SQUARE
	15/5,	RAJA SUBODH MULLICK SQUARE	110512900215				
	15/4,	RAJA SUBODH MULLICK SQUARE	110512900203				
	15,	RAJA SUBODH MULLICK SQUARE	110512900288				
	15/3,	RAJA SUBODH MULLICK SQUARE	110512900197				
	15/2,	RAJA SUBODH MULLICK SQUARE	110512900290				
2	12,	RAJA SUBODH MULLICK SQUARE	110512900136	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SUBODHCHANDRA MULLICK
3	52A,	INDIAN MIRROR STREET	110511300617	I	LANDMARK		GATEWAY
			110511300605				
			110511300540				
			110511300538				
			110511300447				
	52B,	INDIAN MIRROR STREET	110511300460				
4	15,	GOBINDA SARKAR LANE	110510900200	IIB	SITE & HOUSE WITH THEATRICAL HERITAGE		ONCE BOWBAZAR BANGANATYALAY
WARD : 052							
1	110,	SURENDRANATH BANERJEE ROAD	150521800276	I	SCHOOL / COLLEGE (INCL. HOSTEL)		CALCUTTA TECHNICAL SCHOOL
2	8,	RAFIAHMED KIDWAI ROAD	150521400158	I	SCHOOL / COLLEGE (INCL. HOSTEL)		MAULANA AZAD COLLEGE
			150521400729				
3	20A,	SURENDRANATH BANERJEE ROAD	110521800045	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RANI RASMONI
	20B,	SURENDRANATH BANERJEE ROAD	110521800057				
	21,	SURENDRANATH BANERJEE ROAD	110521800069				
	13B,	RANI RASHMONI ROAD	110521600238				
	13A,	RANI RASHMONI ROAD	110521600068				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	19A,	SURENDRANATH BANERJEE ROAD	110521800021				
	18/3A,	SURENDRANATH BANERJEE ROAD	110521800010				
	19B,	SURENDRANATH BANERJEE ROAD	110521800033				
4	9/1, 9,	MIRZA GHALIB STREET MIRZA GHALIB STREET	110521200170 110521200327	I	RELIGIOUS / CHRISTIAN CHURCH		ST. THOMAS CHURCH
5	10A, 10B, 10C, 10D, 10E,	RAFI AHMED KIDWAI ROAD RAFI AHMED KIDWAI ROAD RAFI AHMED KIDWAI ROAD RAFI AHMED KIDWAI ROAD RAFI AHMED KIDWAI ROAD	110521400183 110521400195 110521400730 110521400201 110521400213	I	RELIGIOUS / MOSQUE		
WARD : 053							
1	92/1, 93,	ACHARYA JAGADISH CHANDRA BOSE ROAD ACHARYA JAGADISH CHANDRA BOSE ROAD	110530201028 110530200826 110530200838 110530200840	I	RELIGIOUS / CHRISTIAN CHURCH		CHURCH OF ST. TERESA AND THE SCHOOL
2	5,	TALTALA LANE	110532001286	I	RELIGIOUS / MOSQUE		
3	16A, 18A, 22A,	GARDNER LANE GARDNER LANE GARDNER LANE	110530900642 110530900599 110530900241 110530900253	I	RELIGIOUS / MOSQUE		KHANKA SHARIF DAUDERIA
4	17,	HAJI MOHAMMED MOHSIN SQUARE	150531000018 150531000067	I	SCHOOL / COLLEGE (INCL. HOSTEL)		CALCUTTA MADRASSAH HOSTEL
5	8,	SMITH LANE	150531700107 150531700016	I	SCHOOL / COLLEGE (INCL. HOSTEL)		BAKER HOSTEL, MAULANA AZAD COLLEGE
6	103,	DURGA CHARAN DOCTOR ROAD	110530801720	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		S. N. BANERJEE
7	4,	TALTALA LANE	150532001304 150532000282	IIA	RELATED TO ESTABLISHMENT		TALTALA P.S.



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 054							
1	24A/1B,	DR. SURESH SARKAR ROAD	110540300940	I	ARCHITECTURAL STYLE		SARADA VIDYA BHAVAN ESTD. 1950 PREVIOUSLY A PROPERTY OF RANI RASHMONI
	24A/1C,	DR. SURESH SARKAR ROAD	110540300951				
	24A,	DR. SURESH SARKAR ROAD	110540300616				
	24A/1A,	DR. SURESH SARKAR ROAD	110540300628				
2		HAREKRISHNA KONAR ROAD		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 31, HAREKRISHNA KONAR ROAD	BIBI ANARO'S IMAMBARA
3	163,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110540100093	IIA	ARCHITECTURAL STYLE		SUR INDUSTRIES INCLUDING FOUNTAIN
4	161,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110540100070	IIA	ARCHITECTURAL STYLE		
5	155A,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110540100378	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		H. L. V. DEROZIO
			110540100366				
			110540100354				
			110540100342				
			110540100330				
			110540100329				
			110540100317				
			110540100305				
			110540100299				
			110540100287				
			110540100275				
			110540100263				
			110540100251				
			110540100240				
			110540100238				
			110540100226				
			110540100214				
			110540100380				
			110540100391				
			110540100408				
			110540100410				
			110540100421				
			110540100433				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
			110540100469 110540100457 110540100445 110540100676 110540100664 110540100019 110540100482 110540100470				
6	160,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110540100068	IIB	ARCHITECTURAL STYLE		
WARD : 055							
1		PALMER BAZAR ROAD		I	LANDMARK		CHIMNEY AT PALMER BRIDGE PUMPING STATION
2	138,	ACHARYA JAGADISH CHANDRA BOSE ROAD		I	HOSPITAL AND MEDICAL ESTABLISHMENT		NILRATAN SARKAR MEDICAL COLLEGE
3	17, 61,	DIHI ENTALLY ROAD DEB LANE	110551300225 110551200619	I	ARCHITECTURAL STYLE		TRAILOKYA KUTIR
4	7C, 7D,	DIHI ENTALLY ROAD DIHI ENTALLY ROAD	110551300134 110551300286 110551300298 110551300274 110551300262	I	ARCHITECTURAL STYLE		HOUSE OF DEBENDRA NARAYAN DEB - A GREAT ZAMINDAR INCLUDING CAST IRON FIGURES.
5	41B, 41A,	DEB LANE DEB LANE	110551200991 110551200516	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		HARIDAS SIDDHANTABAGISH
6	22,	CONVENT ROAD	110551100510	I	BURIAL AND CREMATION		ROMAN CATHOLIC CEMETERY
7	38A, 38B,	ANANDA PALIT ROAD ANANDA PALIT ROAD	110550202785 110550200739	I	RELIGIOUS / CHRISTIAN CHURCH		ST. GEORGE'S CHURCH / BISHOP LEFROY MEMORIAL
8	100A, 100B, 98,	DR. LALMOHAN BHATTACHARYYA ROAD DR. LALMOHAN BHATTACHARYYA ROAD DR. LALMOHAN BHATTACHARYYA ROAD	110551401972 110551401870 110551401261	I	RELIGIOUS / MOSQUE		MOSQUE & IMAMBARA



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
9	24B, 24A,	ANANDA PALIT ROAD	110550200533 110550202463 110550200521 110550202451	IIA	ARCHITECTURAL STYLE		
10	2/1B, 2/1A,	DEB LANE	110551200851 110551200024	IIA	ARCHITECTURAL STYLE		HOUSE OF DR. SURESH SARKAR
WARD : 056							
1	98,	DEBENDRA CHANDRA DEY ROAD	110560500774	I	BURIAL AND CREMATION		CHINESE BURIAL GROUND, CHOONG DHONG
2	1,	CONVENT LANE	110560300013	I	SCHOOL / COLLEGE (INCL. HOSTEL)		LORETO ST. MARY'S CONVENT
WARD : 057							
1	14,	BELIAGHATA ROAD	150570100440 150570100099	I	LANDMARK		GATEWAY OF BELIAGHATA COMMERCIAL TAX BUILDING
2	13,	BELIAGHATA ROAD	110570100075	I	LANDMARK		GATEWAY OF GHOSH'S CASTLE
3	8,	MATHUR BABU LANE	110571400285	I	BURIAL AND CREMATION		CHINESE BURIAL GROUND, NAM SOON SENG CHEONG
4	6,	MEHER ALI LANE	110571500152	I	BURIAL AND CREMATION		CHINESE BURIAL GROUND, GEE HING
5		DEBENDRA CHANDRA DEY ROAD		I	BURIAL AND CREMATION	ADJCENT TO 26/1, DEBENDRA CHANDRA DEY ROAD	MUSLIM BURIAL GROUND
WARD : 058							
1	12,	NEW TANGRA ROAD	110580900318	I	BURIAL AND CREMATION		CHINESE BURIAL GROUND, SEA VAI COON KOON
2		MATHESWARTOLA ROAD		I	BURIAL AND CREMATION	ADJCENT TO 64 MATHESWARTOLA ROAD	CHINESE BURIAL GROUND, TONGOON
3		MATHESWARTOLA ROAD		I	BURIAL AND CREMATION	POPULARLY KNOWN AS 56, MATHESWARTOLA ROAD	CHINESE BURIAL GROUND, CHUNG WAH
4	1/1,	MATHESWARTOLA ROAD	110580700287	I	BURIAL AND CREMATION	ADJCENT TO 2, MATHESWARTOLA ROAD	ARMENIAN BURIAL GROUND AND CHAPEL
5	5,	TANGRA 2ND LANE	110581500312	I	BURIAL AND CREMATION		CHINESE BURIAL GROUND



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 059							
1	1,	TOPSIA ROAD SOUTH	110592202025	I	BURIAL AND CREMATION		HINDU BURIAL GROUND
2	1,	RAICHARAN PAL LANE	110591700273	I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND
3		GOBRA GOROSTHAN ROAD		I	BURIAL AND CREMATION	POPULARLY KNOWN AS 32, GOBRA GORISTHAN ROAD	MUSLIM BURIAL GROUND, GOR-I-GORIBAN
4		MAHENDRA ROY LANE		I	BURIAL AND CREMATION	POPULARLY KNOWN AS 20, MAHENDRA ROY LANE,	GOBRA MUSLIM KABARSTHAN NO 2, TILJALA EXTENSION
5		MAHENDRA CHATTERJEE LANE		I	BURIAL AND CREMATION	AT THE REAR OF 20, MAHENDRA ROY LANE	MUSLIM BURIAL GROUND, TILJALA NEW EXTENSION
WARD : 060							
1	2,	CREMATORIUM STREET		I	BURIAL AND CREMATION		GAS CREMATORIUM, KMC
2	10,	C. I. T. SCHEME NO. XXXV	150600700108	I	SCHOOL / COLLEGE (INCL. HOSTEL)	POPULARLY KNOWN AS P-1/2, SUHRAWARDY AVENUE	LADY BRABOURNE COLLEGE
			150600700170				
			150600700169				
	1/1,	C. I. T. SCHEME NO. XXXV	150600700182				
			150600700133				
	1/2,	C. I. T. SCHEME NO. XXXV	150600700194				
			150600700145				
3	3,	SUHRAWARDY AVENUE	110602500032	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		HASSAN SHAHID SUHRAWARDY
4	1,	SUHRAWARDY AVENUE	110602500019	I	ARCHITECTURAL STYLE ISLAND	AROUND PARK CIRCUS	PARK PALACE
5	165A,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110600100026	I	ARCHITECTURAL STYLE		ST JAMES' SCHOOL
	165B,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110600100014				
	166,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110600100038				
	167,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110600100040				
	167/1,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110600100051				
			110600100063				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
6		ACHARYA JAGADISH CHANDRA BOSE ROAD		I	RELIGIOUS/CHRISTIAN CHURCH	ADJCENT TO 165/1, ACHARYYA JAGADISH BOSE ROAD	ST. JAMES' CHURCH
7	191,	PARK STREET	110602300031	IIA	ARCHITECTURAL STYLE		MARINA GARDEN COURT
8	170,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110600100117	IIA	ARCHITECTURAL STYLE		
9	170/2C, 170/2D,	ACHARYA JAGADISH CHANDRA BOSE ROAD ACHARYA JAGADISH CHANDRA BOSE ROAD	110600100087 110600100154	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SUNAYANI DEVI
WARD : 061							
1	183,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110610100880	I	ARCHITECTURAL STYLE		NONA PUKUR TRAM DEPOT
2	44,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110610100259	I	ARCHITECTURAL STYLE		BAPTIST MISSION
3	184,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110610101689	I	BURIAL AND CREMATION	ADJCENT TO 41B, MONORANJAN ROY CHOWDHURY ROAD	LOWER CIRCULAR ROAD CEMETERY ARMENIAN BURIAL GROUND
4	41A, 41B,	MANORANJAN ROY CHOWDHURY ROAD MANORANJAN ROY CHOWDHURY ROAD	110611100498 110611100346	I	RELIGIOUS/CHRISTIAN CHURCH		ARMENIAN CHURCH
5	87A, 87B, 87C, 87D, 87E, 87F, 87G, 87H, 87J, 87K, 87L,	PARK STREET PARK STREET PARK STREET PARK STREET PARK STREET PARK STREET PARK STREET PARK STREET PARK STREET PARK STREET PARK STREET	110611800046 110611800058 110611800344 110611800356 110611800071 110611800368 110611800095 110611800083 110611800320 110611800332 110611800060	I	ARCHITECTURAL STYLE		
6	43B, 42,	ACHARYA JAGADISH CHANDRA BOSE ROAD ACHARYA JAGADISH CHANDRA BOSE ROAD	110610100314 110610100247	I	RELIGIOUS/CHRISTIAN CHURCH		BAPTIST CHAPEL



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
7		ELLIOT ROAD		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 64A & 64B, ELLIOT ROAD	
8		RAFI AHMED KIDWAI ROAD		I	RELIGIOUS / MOSQUE	ADJCENT RAFI AHMED KIDWAI ROAD & 6A, MUZAFFAR AHMED STREET	
9	178,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110610100806	IIA	ARCHITECTURAL STYLE		EMERALD COURT
10	89,	PARK STREET	150611801026 150611800101	IIA	ARCHITECTURAL STYLE		PARK STREET POLICE STATION
11	52/1, 52,	RAFI AHMED KIDWAI ROAD RAFI AHMED KIDWAI ROAD	110611900090 110611900089	IIB	SHOP		SEN LAW & CO
WARD : 062							
1		RAFI AHMED KIDWAI ROAD		I	PARK, WATERBODY & MEMORIAL		HAJI MD. MOHSIN SQUARE
2	21B,	HAJI MOHAMMED MOHSIN SQUARE	150621000263 150621000305	I	SCHOOL / COLLEGE (INCL. HOSTEL)		CALCUTTA MADRASSAH
3	9,	HAJI MOHAMMED MOHSIN SQUARE	110621000100	I	RELIGIOUS / CHRISTIAN CHURCH		SAVIOUR'S CHURCH - INDIAN (TAMIL)
4	56/1,	MUZAFFAR AHMED STREET	110621600072	I	RELIGIOUS / MOSQUE		
5	45A,	ABDUL HALIM LANE	110620200335	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		KIRAN SANKAR ROY
	47A,	ABDUL HALIM LANE	110620200359				
	45B,	ABDUL HALIM LANE	110620200372				
	45C,	ABDUL HALIM LANE	110620200384				
	44B,	ABDUL HALIM LANE	110620200499				
	45B,	ABDUL HALIM LANE	110620200967				
	46,	ABDUL HALIM LANE	110620200347				
WARD : 063							
1	5,	MIDDLETON STREET	110633100068	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		HOUSE GOOPTU FAMILY
2		ACHARYA JAGADISH CHANDRA BOSE ROAD		I	PARK, WATERBODY & MEMORIAL	MINTO SQUARE	SHAHID BHAGAT SINGH PARK
3	30,	PARK STREET	110633902239	I	SCHOOL / COLLEGE (INCL. HOSTEL)		ST. XAVIER'S COLLEGE, SANS SOUCI THEATRE (1839) EXISTED HERE.



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4	28,	JAWAHARLAL NEHRU ROAD	150632400240 150632400251 150632400202 150632400196	I	SCHOOL / COLLEGE (INCL. HOSTEL)		GOVERNMENT COLLEGE OF ART & CRAFTS
5	11,	DR. U. N. BRAHMACHARI STREET	110631601108 110631600311 110631601674 110631601273 110631601339 110631601030 110631601042 110631601054 110631601066 110631601121 110631601091 110631601080 110631601078	I	SCHOOL / COLLEGE (INCL. HOSTEL)		LA MARTINIERE FOR BOYS
6	14,	SAROJINI NAIDU SARANI	110634700158	I	SCHOOL / COLLEGE (INCL. HOSTEL)		LA MARTINIERE FOR GIRLS
7	7,	SIR WILLIAM JONES SARANI	110633000062	I	SCHOOL / COLLEGE (INCL. HOSTEL)		LORETO SCHOOL AND COLLEGE
8	1A, 1B, 1/1,	PARK STREET PARK STREET PARK STREET	110633900012 110633902940 110633901429 110633900024	I	PUBLIC INSTITUTION		ASIATIC SOCIETY
9	27,	JAWAHARLAL NEHRU ROAD	150632400238	I	PUBLIC INSTITUTION		INDIAN MUSEUM INCLUDING JHINJHERI TALAO. ALSO NOTED FOR ARCHITECTURAL STYLE. MUSEUM OFFICE, ORIGINALLY SUDDER DIWANI ADALAT
10	25,	JAWAHARLAL NEHRU ROAD	110632400160	I	PUBLIC INSTITUTION		YMCA, CHOWRINGHEE. ALSO NOTED FOR ARCHITECTURAL STYLE.
11	23,	JAWAHARLAL NEHRU ROAD	110632400147	I	PUBLIC INSTITUTION		BIBLE SOCIETY, ALSO NOTED FOR ARCHITECTURAL STYLE.
12	11,	ANANDILAL PODDAR SARANI	110634600103	I	RECREATIONAL		ROYAL CALCUTTA TURF CLUB
13	13A, 13B,	SUDDER STREET SUDDER STREET	110635100199 110635100205	I	RECREATIONAL		FAIRLAWN HOTEL
14	15,	SHAKESPEARE SARANI	110634800086	I	RECREATIONAL		THE ASTOR HOTEL



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
15	37,	CHOWRINGHEE ROAD	110631001257 110631002390 110631001269 110631000095	I	OFFICE		I.T.C. (VIRGINIAHOUSE)
16	41,	CHOWRINGHEE ROAD	110631000149	I	OFFICE		KANAK BUILDING
17	7,	HO-CHI-MINH SARANI	110632000169	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RAJENDRANATH MUKHERJEE
18	26,	JAWAHARLAL NEHRU ROAD	150632400172	I	ARCHITECTURAL STYLE		
19	1,	CHOWRINGHEE MANSION	110630900013	I	ARCHITECTURAL STYLE		CHOWRINGHEE MANSION
	2,	CHOWRINGHEE MANSION	110630900025				
	3,	CHOWRINGHEE MANSION	110630900037				
	4,	CHOWRINGHEE MANSION	110630900049				
	5,	CHOWRINGHEE MANSION	110630900050				
	6,	CHOWRINGHEE MANSION	110630900062				
	7,	CHOWRINGHEE MANSION	110630900074				
	8,	CHOWRINGHEE MANSION	110630900086				
	9,	CHOWRINGHEE MANSION	110630900098				
	10,	CHOWRINGHEE MANSION	110630900104				
	11,	CHOWRINGHEE MANSION	110630900116				
	12,	CHOWRINGHEE MANSION	110630900128				
	13,	CHOWRINGHEE MANSION	110630900130				
	14,	CHOWRINGHEE MANSION	110630900141				
	15,	CHOWRINGHEE MANSION	110630900153				
	16,	CHOWRINGHEE MANSION	110630900165				
	17,	CHOWRINGHEE MANSION	110630900177				
	18,	CHOWRINGHEE MANSION	110630900189				
	19,	CHOWRINGHEE MANSION	110630900190				
	20,	CHOWRINGHEE MANSION	110630900207				
	21,	CHOWRINGHEE MANSION	110630900219				
	22,	CHOWRINGHEE MANSION	110630900220				
	23,	CHOWRINGHEE MANSION	110630900232				
	24,	CHOWRINGHEE MANSION	110630900244				
	30A,	JAWAHARLAL NEHRU ROAD	110632400019				
	30B,	JAWAHARLAL NEHRU ROAD	110632400020				
	30C,	JAWAHARLAL NEHRU ROAD	110632400032				
	30D,	JAWAHARLAL NEHRU ROAD	110632400044				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	30E,	JAWAHARLAL NEHRU ROAD	110632400056				
	30G,	JAWAHARLAL NEHRU ROAD	110632400068				
	30H,	JAWAHARLAL NEHRU ROAD	110632400070				
20	1/12B,	DR. MD. ISHAQUE ROAD	110631500286	I	ARCHITECTURAL STYLE		PALACE COURT
	1/11B,	DR. MD. ISHAQUE ROAD	110631500274				
	1/10B,	DR. MD. ISHAQUE ROAD	110631500262				
	1/9B,	DR. MD. ISHAQUE ROAD	110631500250				
	1/7B,	DR. MD. ISHAQUE ROAD	110631500237				
	1/6B,	DR. MD. ISHAQUE ROAD	110631500225				
	1/5B,	DR. MD. ISHAQUE ROAD	110631500213				
	1/4B,	DR. MD. ISHAQUE ROAD	110631500201				
	1/3B,	DR. MD. ISHAQUE ROAD	110631500195				
	1/2B,	DR. MD. ISHAQUE ROAD	110631500183				
	1/50B,	DR. MD. ISHAQUE ROAD	110631500663				
	1/49B,	DR. MD. ISHAQUE ROAD	110631500651				
	1/48B,	DR. MD. ISHAQUE ROAD	110631500640				
	1/47B,	DR. MD. ISHAQUE ROAD	110631500638				
	1/1A,	DR. MD. ISHAQUE ROAD	110631500055				
	1/1C,	DR. MD. ISHAQUE ROAD	110631500043				
	1/1B,	DR. MD. ISHAQUE ROAD	110631500031				
	1/46B,	DR. MD. ISHAQUE ROAD	110631500626				
	1/45B,	DR. MD. ISHAQUE ROAD	110631500614				
	1/44B,	DR. MD. ISHAQUE ROAD	110631500602				
	1/43B,	DR. MD. ISHAQUE ROAD	110631500596				
	1/42B,	DR. MD. ISHAQUE ROAD	110631500584				
	1/41B,	DR. MD. ISHAQUE ROAD	110631500572				
	1/40B,	DR. MD. ISHAQUE ROAD	110631500560				
	1/39B,	DR. MD. ISHAQUE ROAD	110631500559				
	1/38B,	DR. MD. ISHAQUE ROAD	110631500547				
	1/37B,	DR. MD. ISHAQUE ROAD	110631500535				
	1/36B,	DR. MD. ISHAQUE ROAD	110631500523				
	1/35B,	DR. MD. ISHAQUE ROAD	110631500511				
	1/34B,	DR. MD. ISHAQUE ROAD	110631500500				
	1/33B,	DR. MD. ISHAQUE ROAD	110631500493				
	1/32B,	DR. MD. ISHAQUE ROAD	110631500481				
	1/31B,	DR. MD. ISHAQUE ROAD	110631500470				
	1/30B,	DR. MD. ISHAQUE ROAD	110631500468				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	1/29B,	DR. MD. ISHAQUE ROAD	110631500456				
	1/28B,	DR. MD. ISHAQUE ROAD	110631500444				
	1/27B,	DR. MD. ISHAQUE ROAD	110631500432				
	1/26B,	DR. MD. ISHAQUE ROAD	110631500420				
	1/25B,	DR. MD. ISHAQUE ROAD	110631500419				
	1/24B,	DR. MD. ISHAQUE ROAD	110631500407				
	1/23B,	DR. MD. ISHAQUE ROAD	110631500390				
	1/22B,	DR. MD. ISHAQUE ROAD	110631500389				
	1/21B,	DR. MD. ISHAQUE ROAD	110631500377				
	1/20B,	DR. MD. ISHAQUE ROAD	110631500365				
	1/17B,	DR. MD. ISHAQUE ROAD	110631500353				
	1/18B,	DR. MD. ISHAQUE ROAD	110631500341				
	1/19B,	DR. MD. ISHAQUE ROAD	110631500330				
	1/16B,	DR. MD. ISHAQUE ROAD	110631500328				
	1/15B,	DR. MD. ISHAQUE ROAD	110631500316				
	1/14B,	DR. MD. ISHAQUE ROAD	110631500304				
	1/13B,	DR. MD. ISHAQUE ROAD	110631500298				
21	15,	SUDDER STREET	110635100254	I	ARCHITECTURAL STYLE		WESLEYAN CHURCH
22	8,	SHAKESPEARE SARANI	150634800293	I	ARCHITECTURAL STYLE		AUROBINDO BHABAN
23	6,	SHAKESPEARE SARANI	110634800268	I	ARCHITECTURAL STYLE		S. B. I. BUILDING
24	52,	PARK STREET	110633902975	I	BURIAL AND CREMATION		SOUTH PARK STREET CEMETERY
25	19,	PARK STREET	110633900073	I	RELIGIOUS / FREEMASONRY		FREEMASONS' HALL (ENGLISH & IRISH)
26	20A,	PARK STREET	110633900085	I	ARCHITECTURAL STYLE		
	20B,	PARK STREET	110633900097				
	20C,	PARK STREET	110633901170				
	20D,	PARK STREET	110633901181				
	20E,	PARK STREET	110633901193				
	20F,	PARK STREET	110633901200				
	20G,	PARK STREET	110633901211				
	20H,	PARK STREET	110633901223				
	20J,	PARK STREET	110633901235				
	20K,	PARK STREET	110633901247				
27	22,	PARK STREET	110633900115	I	ARCHITECTURAL STYLE		
28	32,	PARK STREET	110633902458	I	ARCHITECTURAL STYLE		ARCHBISHOP'S HOUSE



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
29	29,	JAWAHARLAL NEHRU ROAD	110632400226	I	RELATED TO ESTABLISHMENT		GEOLOGICAL SURVEY OF INDIA. NOTED FOR ARCHITECTURAL STYLE ALSO.
30	13A,	ANANDILAL PODDAR SARANI	110634600395	I	RELATED TO ESTABLISHMENT		QUEEN'S MANSION
	13A/1,	ANANDILAL PODDAR SARANI	110634600401				
	13B,	ANANDILAL PODDAR SARANI	110634600413				
	13B/1,	ANANDILAL PODDAR SARANI	110634600425				
	13C,	ANANDILAL PODDAR SARANI	110634600437				
	13D,	ANANDILAL PODDAR SARANI	110634600449				
	13E,	ANANDILAL PODDAR SARANI	110634600450				
	12A,	PARK STREET	110633900292				
	12B/1,	PARK STREET	110633900310				
	12B/2,	PARK STREET	110633900322				
	12C,	PARK STREET	110633900334				
	12D,	PARK STREET	110633900346				
	12E,	PARK STREET	110633900358				
	12F,	PARK STREET	110633900360				
	12G,	PARK STREET	110633900371				
	12H,	PARK STREET	110633900401				
	12J,	PARK STREET	110633900383				
	12K,	PARK STREET	110633900395				
	12M,	PARK STREET	110633900413				
	12N,	PARK STREET	110633900425				
	12P,	PARK STREET	110633900437				
	12Q/1,	PARK STREET	110633900449				
	12Q/8,	PARK STREET	110633900516				
	12Q/9,	PARK STREET	110633900528				
	12Q/10,	PARK STREET	110633900530				
	12Q/11,	PARK STREET	110633900541				
	12Q/12,	PARK STREET	110633900553				
	12Q/13,	PARK STREET	110633900565				
	12Q/14,	PARK STREET	110633900577				
	12Q/15,	PARK STREET	110633900589				
	12Q/16,	PARK STREET	110633900590				
	12Q/17,	PARK STREET	110633900607				
	12Q/18,	PARK STREET	110633900619				
	12Q/19,	PARK STREET	110633900620				
	12Q/20,	PARK STREET	110633900632				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
		12Q/21, PARK STREET	110633900644				
		12Q/23, PARK STREET	110633900656				
		12Q/24, PARK STREET	110633900668				
		12Q/25, PARK STREET	110633900670				
		12Q/26, PARK STREET	110633900681				
		12Q/27, PARK STREET	110633900693				
		12Q/45, PARK STREET	110633900875				
		12Q/46, PARK STREET	110633900887				
		12Q/47, PARK STREET	110633900899				
		12Q/48, PARK STREET	110633900905				
		12Q/49, PARK STREET	110633900917				
		12Q/50, PARK STREET	110633900929				
		12Q/51, PARK STREET	110633900930				
		12Q/52, PARK STREET	110633900942				
		12Q/53, PARK STREET	110633900954				
		12Q/54, PARK STREET	110633900966				
		12Q/55, PARK STREET	110633900978				
		12Q/56, PARK STREET	110633900980				
		12Q/57, PARK STREET	110633900991				
		12Q/58, PARK STREET	110633901004				
		12Q/59, PARK STREET	110633901016				
		12Q/61, PARK STREET	110633901028				
		12Q/62, PARK STREET	110633901030				
31	1,	CATHEDRAL ROAD	110630700012	I	RELIGIOUS / CHRISTIAN CHURCH		ST. PAUL'S CATHEDRAL
	1A,	CATHEDRAL ROAD	110630700048				
32	7/2,	SIR WILLIAM JONES SARANI	110633001194	I	RELIGIOUS / CHRISTIAN CHURCH		ST. THOMA'S CHURCH
33		OUTRAM ROAD		I	STATUE	MAIDAN	RAJA RAMMOHAN ROY
34	3,	CATHEDRAL ROAD	110630700036	I	PARK, WATERBODY & MEMORIAL	BEHIND NANDAN	BIRJEE TALAO
35		JAWAHARLAL NEHRU ROAD		I	PARK, WATERBODY & MEMORIAL		KOLKATA MAIDAN
36		CHOWRINGHEE ROAD		I	STATUE	JUNCTION OF CHOWRINGHEE ROAD & OUTRAM ROAD	JAWAHARLAL NEHRU
37	8,	SHORT STREET	110634900100	I	ARCHITECTURAL STYLE		
38		QUEEN'S WAY		I	PARK, WATERBODY & MEMORIAL		VICTORIA MEMORIAL (INCLUDING STATUES IN THE QUADRANGLE AND OTHER STATUES).



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
			110633903980				
			110633903931				
			110633903920				
			110633903992				
			110633903906				
			110633903955				
			110633903943				
			110633903967				
			110633904005				
			110633903918				
			110633903979				
			110633903580				
			110633903578				
			110633903566				
			110633903554				
			110633903542				
			110633903530				
			110633903529				
			110633903517				
			110633903505				
			110633903499				
			110633903440				
			110633903438				
			110633903426				
			110633903414				
			110633903402				
			110633903396				
			110633903384				
			110633903372				
			110633903670				
			110633903669				
			110633903657				
			110633903645				
			110633903633				
			110633903621				
			110633903610				
			110633903608				
			110633903591				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
			110633903487				
			110633903475				
			110633903463				
		18B, PARK STREET	110633900061				
		18C, PARK STREET	110633901077				
		18D, PARK STREET	110633901089				
		18E, PARK STREET	110633901090				
		18F, PARK STREET	110633901107				
		18G, PARK STREET	110633901119				
		18H, PARK STREET	110633901120				
		18J, PARK STREET	110633901132				
		18K, PARK STREET	110633901144				
		18L, PARK STREET	110633901156				
		18M, PARK STREET	110633901168				
53	59A, PARK STREET		110633900152	IIA	ARCHITECTURAL STYLE		VICTOR HOUSE
	59B, PARK STREET		110633900164				
	59C, PARK STREET		110633900176				
	59D, PARK STREET		110633900188				
54	36A, PARK STREET		110633902963	IIA	RELIGIOUS/CHRISTIAN CHURCH		SEVENTH DAY ADVENTIST CHURCH
55	8, SAROJINI NAIDU SARANI		110634700080	IIA	ARCHITECTURAL STYLE		
56	7/1C, SHORT STREET		110634900214	IIA	ARCHITECTURAL STYLE		
	7/1B, SHORT STREET		110634900202				
57	18A, DR. U. N. BRAHMACHARI STREET		110631600141	IIA	ARCHITECTURAL STYLE		
58	16, DR. U. N. BRAHMACHARI STREET		110631600116	IIA	ARCHITECTURAL STYLE		
59	13, DR. U. N. BRAHMACHARI STREET		110631600335	IIA	ARCHITECTURAL STYLE		NATIONAL COURT
60	1, NANDALAL BOSE SARANI		110632600010	IIA	RECREATIONAL		HOTEL NEW KENILWORTH
	2, NANDALAL BOSE SARANI		110632600021				
61	8A, NANDALAL BOSE SARANI		110632600197	IIA	ARCHITECTURAL STYLE		
	8B, NANDALAL BOSE SARANI		110632600252				
	8/1A, NANDALAL BOSE SARANI		110632600227				
62	4A, NANDALAL BOSE SARANI		110632600069	IIA	ARCHITECTURAL STYLE		
63	4B, NANDALAL BOSE SARANI		110632600070	IIA	ARCHITECTURAL STYLE		
	4C, NANDALAL BOSE SARANI		110632600082				
	4D, NANDALAL BOSE SARANI		110632600094				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
		4E, NANDALAL BOSE SARANI	110632600100				
		4F, NANDALAL BOSE SARANI	110632600112				
		4G, NANDALAL BOSE SARANI	110632600124				
		4H, NANDALAL BOSE SARANI	110632600136				
		4J, NANDALAL BOSE SARANI	110632600148				
		4K, NANDALAL BOSE SARANI	110632600150				
		4L, NANDALAL BOSE SARANI	110632600161				
64	12,	HO-CHI-MINH SARANI	110632004734	IIA	ARCHITECTURAL STYLE		
			110632004795				
			110632004710				
			110632004709				
			110632004692				
			110632004680				
			110632004679				
			110632004667				
			110632004655				
			110632004643				
			110632004631				
			110632004620				
			110632004618				
			110632000339				
			110632004722				
			110632004783				
			110632004771				
			110632004760				
			110632004758				
			110632004746				
			110632004801				
65	11/1A,	HO-CHI-MINH SARANI	110632000200	IIA	ARCHITECTURAL STYLE		JUBILEE COURT
	11/1B,	HO-CHI-MINH SARANI	110632000212				
			110632004849				
	11/1C,	HO-CHI-MINH SARANI	110632000224				
	11/1D,	HO-CHI-MINH SARANI	110632000236				
	11/1E,	HO-CHI-MINH SARANI	110632000248				
	11/1F,	HO-CHI-MINH SARANI	110632000250				
	11/1G,	HO-CHI-MINH SARANI	110632000261				
	11/1H,	HO-CHI-MINH SARANI	110632000273				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
		11/1J, HO-CHI-MINH SARANI	110632000285				
		11/1K, HO-CHI-MINH SARANI	110632000297				
66	7B,	MIDDLETON STREET	110633100196	IIA	ARCHITECTURAL STYLE		
67	9,	MIDDLETON STREET	110633102181	IIA	ARCHITECTURAL STYLE		MIDDLETON MANSION
			110633102168				
			110633102156				
			110633102144				
			110633102132				
			110633102120				
			110633102170				
			110633102119				
			110633100536				
	9/1,	MIDDLETON STREET	110633102004				
			110633100550				
			110633101980				
			110633101978				
			110633101942				
68	26A,	ABANINDRANATH THAKUR SARANI	110630600078	IIA	ARCHITECTURAL STYLE		DUMRAON HOUSE
69	2,	ABANINDRANATH THAKUR SARANI	110630600029	IIA	ARCHITECTURAL STYLE		
70	8/1B,	SIR WILLIAM JONES SARANI		IIA	ARCHITECTURAL STYLE		
71	11,	SIR WILLIAM JONES SARANI	110633000141	IIA	ARCHITECTURAL STYLE		
72	4,	SIR WILLIAM JONES SARANI	110633000049	IIA	ARCHITECTURAL STYLE		BIRKMYRE HOSTEL & CLUB
73	5A,	ANANDILAL PODDAR SARANI	110634600050	IIA	ARCHITECTURAL STYLE		BISHOP'S FORMER RESIDENCE INCLUDING GATEWAY.
74	13,	LORD SINHA ROAD	150632700131	IIA	RELATED TO ESTABLISHMENT		INTELLIGENCE BRANCH, GOVT. OF WEST BENGAL C.I.D.
			150632701032				
75	14,	LORD SINHA ROAD	150632700143	IIA	RELATED TO ESTABLISHMENT		SPECIAL BRANCH, KOLKATA POLICE, C.I.D.
			150632701044				
76	15,	WOOD STREET	150635600159	IIA	RELATED TO ESTABLISHMENT		SURVEY OF INDIA
	13,	WOOD STREET	150635600160				
	14,	WOOD STREET	150635600147				
77	1,	PARK MANSIONS	110633800017	IIA	RELATED TO ESTABLISHMENT		PARK MANSION
	2,	PARK MANSIONS	110633800029				
	3,	PARK MANSIONS	110633800030				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4,		PARK MANSIONS	110633800042				
5,		PARK MANSIONS	110633800054				
6,		PARK MANSIONS	110633800066				
7,		PARK MANSIONS	110633800078				
8,		PARK MANSIONS	110633800080				
9,		PARK MANSIONS	110633800091				
10,		PARK MANSIONS	110633800108				
11,		PARK MANSIONS	110633800110				
12,		PARK MANSIONS	110633800121				
13,		PARK MANSIONS	110633800133				
14,		PARK MANSIONS	110633800145				
15,		PARK MANSIONS	110633800157				
16,		PARK MANSIONS	110633800169				
17,		PARK MANSIONS	110633800170				
18,		PARK MANSIONS	110633800182				
19,		PARK MANSIONS	110633800194				
20,		PARK MANSIONS	110633800200				
20A,		PARK MANSIONS	110633800212				
21,		PARK MANSIONS	110633800224				
22,		PARK MANSIONS	110633800236				
23,		PARK MANSIONS	110633800248				
24,		PARK MANSIONS	110633800250				
25,		PARK MANSIONS	110633800261				
26,		PARK MANSIONS	110633800273				
27,		PARK MANSIONS	110633800285				
28,		PARK MANSIONS	110633800297				
29,		PARK MANSIONS	110633800303				
30,		PARK MANSIONS	110633800315				
31,		PARK MANSIONS	110633800327				
32,		PARK MANSIONS	110633800339				
33,		PARK MANSIONS	110633800340				
34,		PARK MANSIONS	110633800352				
35,		PARK MANSIONS	110633800364				
36,		PARK MANSIONS	110633800376				
37,		PARK MANSIONS	110633800388				
38,		PARK MANSIONS	110633800390				
39,		PARK MANSIONS	110633800455				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
	40,	PARK MANSIONS	110633800406				
	41,	PARK MANSIONS	110633800418				
	42,	PARK MANSIONS	110633800420				
	43,	PARK MANSIONS	110633800431				
	44,	PARK MANSIONS	110633800443				
78	1,	EDWARD COURT	110631700019	IIA	RELATED TO ESTABLISHMENT	JUNCTION OF AJC BOSE ROAD & CHOWRINGHEE ROAD	KING EDWARD COURT
79	9,	SIR WILLIAM JONES SARANI	110633000086	IIA	ARCHITECTURAL STYLE		
80	1,	SIR WILLIAM JONES SARANI	110633000013	IIA	PUBLIC INSTITUTION		GALLWAY HOUSE, Y.W.C.A.
81	1/1A,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110630100082	IIB	SCHOOL / COLLEGE (INCL. HOSTEL)		ACHARYA JAGADISH CHANDRA BOSE COLLEGE
	1/1C,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110630100100				
	1/1B,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110630100094				
82	7,	DR. MARTIN LUTHER KING SARANI	110635400298	IIB	RECREATIONAL		SATURDAY CLUB
83	6/2A,	NELLIE SENGUPTA SARANI	110633500113	IIB	ARCHITECTURAL STYLE		SREE NATH MANSION
	6/2B,	NELLIE SENGUPTA SARANI	110633500125				
	6/3A,	NELLIE SENGUPTA SARANI	110633500137				
	6/3B,	NELLIE SENGUPTA SARANI	110633500149				
	6/4,	NELLIE SENGUPTA SARANI	110633500150				
	6/1,	NELLIE SENGUPTA SARANI	110633500101				
	6A,	NELLIE SENGUPTA SARANI	110633500060				
	6B,	NELLIE SENGUPTA SARANI	110633500071				
	6D,	NELLIE SENGUPTA SARANI	110633500083				
	6F,	NELLIE SENGUPTA SARANI	110633500095				
84	7/1A,	NELLIE SENGUPTA SARANI	110633500174	IIB	ARCHITECTURAL STYLE		SURANA MANSION
	7/1D,	NELLIE SENGUPTA SARANI	110633500370				
	7/1C,	NELLIE SENGUPTA SARANI	110633500368				
	7/1B,	NELLIE SENGUPTA SARANI	110633500356				
85	18,	SHAKESPEARE SARANI	110634800335	IIB	ARCHITECTURAL STYLE		METROPOLITAN LAB & NURSING HOME
86	12,	DR. HARENDRA COOMER MUKHERJEE SARANI	110634000112	IIB	ARCHITECTURAL STYLE		



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
87	3C,	NANDALAL BOSE SARANI	110632600057	IIB	ARCHITECTURAL STYLE		
	3B,	NANDALAL BOSE SARANI	110632600045				
	3A,	NANDALAL BOSE SARANI	110632600033				
88	2/1,	HO-CHI-MINH SARANI	110632000030	IIB	ARCHITECTURAL STYLE		
89	3E,	ABANINDRANATH THAKUR SARANI	110630600121	IIB	ARCHITECTURAL STYLE		
90	5/1A,	ANANDILAL PODDAR SARANI	110634600061	IIB	ARCHITECTURAL STYLE		ROYAL COURT
	5/2A,	ANANDILAL PODDAR SARANI	110634600140				
	5/3A,	ANANDILAL PODDAR SARANI	110634600152				
	5/4A,	ANANDILAL PODDAR SARANI	110634600164				
	5/5A,	ANANDILAL PODDAR SARANI	110634600176				
	5/6A,	ANANDILAL PODDAR SARANI	110634600188				
	5/7A,	ANANDILAL PODDAR SARANI	110634600190				
	5/8A,	ANANDILAL PODDAR SARANI	110634600206				
	5/9A,	ANANDILAL PODDAR SARANI	110634600218				
	5/10A,	ANANDILAL PODDAR SARANI	110634600220				
	5/11A,	ANANDILAL PODDAR SARANI	110634600231				
	5/12A,	ANANDILAL PODDAR SARANI	110634600243				
	5/13A,	ANANDILAL PODDAR SARANI	110634600255				
	5/14A,	ANANDILAL PODDAR SARANI	110634600267				
	5/15A,	ANANDILAL PODDAR SARANI	110634600279				
	5/16A,	ANANDILAL PODDAR SARANI	110634600280				
	5/17A,	ANANDILAL PODDAR SARANI	110634600292				
	5/18A,	ANANDILAL PODDAR SARANI	110634600309				
	5/19A,	ANANDILAL PODDAR SARANI	110634600310				
	5/20A,	ANANDILAL PODDAR SARANI	110634600322				
	5/21A,	ANANDILAL PODDAR SARANI	110634600334				
	5/22A,	ANANDILAL PODDAR SARANI	110634600346				
	5/23A,	ANANDILAL PODDAR SARANI	110634600358				
	5/24A,	ANANDILAL PODDAR SARANI	110634600360				
	5/25A,	ANANDILAL PODDAR SARANI	110634600371				
	5/26A,	ANANDILAL PODDAR SARANI	110634600383				
91	33B,	CHOWRINGHEE ROAD	110631000368	IIB	ARCHITECTURAL STYLE		BENGAL CLUB
WARD : 064							
1	2,	SYED AMIR ALI AVENUE	110643800020	I	ARCHITECTURAL STYLE		PARK COURT
2	86A,	SHAKESPEARE SARANI	110643500498	I	ARCHITECTURAL STYLE		SIDDIQ MANSION
	86B,	SHAKESPEARE SARANI	110643500504				
	33A,	CIRCUS AVENUE	110640600240				
	33B,	CIRCUS AVENUE	110640600251				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
3		3, USTAD ENAYET KHAN AVENUE	110644101770	I	BURIAL AND CREMATION		SCOTTISH CEMETERY
4		1, MOULAVI MUZIBUR RAHAMAN SARANI	110644400013	I	RELATED TO ESTABLISHMENT		FORMER PATENT OFFICE
5		9, CIRCUS AVENUE	110640600068	I	RELATED TO ESTABLISHMENT		HOUSE PRESENTLY OCCUPIED BY BANGLADESH HIGH COMMISSION
6		NEW KASIABAGAN LANE		I	BURIAL AND CREMATION	JUNCTION NEW KASIABAGAN LANE & DILKHUSA STREET	MUSLIM BURIAL GROUND, KASIABAGAN
7		DARGA ROAD		I	PARK, WATERBODY & MEMORIAL		NATIONAL CONGRESS PARK (PARK CIRCUS MAIDAN)
8		PARK STREET		I	STATUE	PARK CIRCUS SEVEN POINT CROSSING	JAYAPRAKASH NARAYAN
9	197,	PARK STREET	110643300540	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		ABDUL HALIM GHAZNAVI
10	67,	SHAKESPEARE SARANI	110643500255	IIA	ARCHITECTURAL STYLE		
11	58A, 58B,	SHAKESPEARE SARANI	110643500097 110643500103	IIA	ARCHITECTURAL STYLE		
12	106,	PARK STREET	150643300448 150643300813	IIA	RELATED TO ESTABLISHMENT	POPULARLY KNOWN AS 106A, NEW PARK STREET	EAST TRAFFIC GUARD AND TOPSIA P.S.
WARD : 065							
1		SHAMSUL HUDA ROAD		I	PARK, WATERBODY & MEMORIAL	ADJACENT TO DAULAT MEMORIAL INSTITUTE (FREE SCHOOL) AT 34, SHAMSUL HUDA ROAD	DAULAT HOSSAIN MEMORIAL
2		SHAMSUL HUDA ROAD		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 46/2, SHAMSUL HUDA ROAD	
3		FAZLUL HUQ SARANI		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS 36, FAZLUL HUQ SARANI	
4	42,	FAZLUL HUQ SARANI	110651300060	I	RECREATIONAL		DALHOUSIE INSTITUTE (CLUB)
5	2,	BALLYGUNGE PARK	110650200020	IIA	RELATED TO ESTABLISHMENT		PASSPORT OFFICE
WARD : 069							
1	224/1A,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110690100435	I	SCHOOL / COLLEGE (INCL. HOSTEL)		BISHOP'S COLLEGE



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
2	1,	PRAMATHEH BARUA SARANI	110693800018	I	SCHOOL / COLLEGE (INCL. HOSTEL)		UNITED MISSIONARIES' TRAINING COLLEGE
3	19A,	GURUSADAY ROAD	170692200019	I	PUBLIC INSTITUTION		BIRLA INDUSTRIAL AND TECHNOLOGICAL MUSEUM
4	19/1,	GURUSADAY ROAD	150692200263	I	RECREATIONAL		BALLYGUNGE CRICKET CLUB
5	35/1,	BALLYGUNGE CIRCULAR ROAD	110690800494	I	ARCHITECTURAL STYLE		THAPAR HOUSE
6	53,	BALLYGUNGE CIRCULAR ROAD	110690800688	I	ARCHITECTURAL STYLE		
7	34/1B,	BALLYGUNGE CIRCULAR ROAD	110690800342	I	ARCHITECTURAL STYLE		
	34/1C,	BALLYGUNGE CIRCULAR ROAD	110690800354				
	34/1D,	BALLYGUNGE CIRCULAR ROAD	110690800366				
	34/1E,	BALLYGUNGE CIRCULAR ROAD	110690800378				
	34/1F,	BALLYGUNGE CIRCULAR ROAD	110690800380				
	34/1G,	BALLYGUNGE CIRCULAR ROAD	110690800391				
	34/1H,	BALLYGUNGE CIRCULAR ROAD	110690800408				
	34/1J,	BALLYGUNGE CIRCULAR ROAD	110690800410				
	34/1K,	BALLYGUNGE CIRCULAR ROAD	110690800421				
	34/1L,	BALLYGUNGE CIRCULAR ROAD	110690800433				
8	59,	BALLYGUNGE CIRCULAR ROAD	110690800834	I	ARCHITECTURAL STYLE		TRIPURA HOUSE
9	61,	BALLYGUNGE CIRCULAR ROAD	170690800019	I	ARCHITECTURAL STYLE		AIRMEN'S MESS (IAF)
			150690800860				
10	24,	BALLYGUNGE CIRCULAR ROAD	110690800068	I	ARCHITECTURAL STYLE		
11	24/1A,	BALLYGUNGE CIRCULAR ROAD	110690805080	I	ARCHITECTURAL STYLE		ARCHITECTURAL STYLE - DESIGNED BY CHARLES CORREA.



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
			110690805091				
			110690805078				
			110690804943				
			110690804955				
			110690805066				
			110690804979				
			110690804967				
			110690805054				
			110690805042				
			110690805030				
			110690805029				
			110690805017				
			110690805005				
			110690804992				
			110690804980				
			110690800070				
			110690805108				
			110690805777				
			110690805789				
			110690805157				
			110690805110				
12	42/1,	PANKAJ MULLICK SARANI	110693600534	I	ARCHITECTURAL STYLE		
13		PANKAJ MULLICK SARANI		I	ARCHITECTURAL STYLE		MADDOX SQUARE
14	20/1,	GURUSADAY ROAD	110692200299	I	RELATED TO ESTABLISHMENT		B.S.F. OFFICERS' INSTITUTE (FAROOQI MANZIL)
15	17,	BALLYGUNGE CIRCULAR ROAD		I	RELIGIOUS/MOSQUE		
16	5,	ASRAF MISTRY LANE	110690600067	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		MAULANA ABUL KALAM AZAD
17	52/2,	BALLYGUNGE CIRCULAR ROAD	110690800639	IIA	ARCHITECTURAL STYLE		
18	57/1,	BALLYGUNGE CIRCULAR ROAD	110690800780	IIA	ARCHITECTURAL STYLE		
19	58/2,	BALLYGUNGE CIRCULAR ROAD	110690800810	IIA	ARCHITECTURAL STYLE		
20	2/1,	LOVELOCK STREET	110692600071	IIA	ARCHITECTURAL STYLE		
21	52/3,	BALLYGUNGE CIRCULAR ROAD	110690800640	IIA	ARCHITECTURAL STYLE		
22	52/4,	BALLYGUNGE CIRCULAR ROAD	110690800652	IIA	ARCHITECTURAL STYLE		
WARD : 070							
1	11,	LALA LAJPAT RAI SARANI	150702200910	I	HOSPITAL AND MEDICAL ESTABLISHMENT		SAMBHU NATH PANDIT HOSPITAL
			150702200222				
	4,	SUBURBAN HOSPITAL ROAD	150703400073				
			150703400140				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
2	38/2,	LALA LAJPAT RAI SARANI	110702200581 110702200593	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		NETAJI SUBHAS CHANDRA BOSE (NETAJI BHAVAN)
3	5,	SUBURBAN HOSPITAL ROAD	110703400085	I	ARCHITECTURAL STYLE		
4	6,	SUBURBAN HOSPITAL ROAD	110703400097	I	ARCHITECTURAL STYLE	ADJACENT TO CHOWDHURY PARK	
5	45,	LALA LAJPAT RAI SARANI		I	ARCHITECTURAL STYLE		CATHEDRAL MISSION CHURCH
6	44/1, 44/2, 44,	LALA LAJPAT RAI SARANI LALA LAJPAT RAI SARANI LALA LAJPAT RAI SARANI	110702200660 110702200672 110702200659	I	ARCHITECTURAL STYLE		
7	36/1A,	LALA LAJPAT RAI SARANI	110702203030 110702203028 110702203016 110702203223 110702203211 110702203200 110702203193 110702203181 110702203170 110702203156 110702203144 110702203132 110702203120 110702203119 110702203107 110702203090 110702203089 110702203077 110702200544 110702203168 110702203065 110702203053 110702203041	I	ARCHITECTURAL STYLE		
8	71C, 71B, 71,	PADDAPUKUR ROAD PADDAPUKUR ROAD PADDAPUKUR ROAD	110702801072 110702800894	I	RELIGIOUS / BRAHMO PRAYER HALL		BRAHMO PRAYER HALL
9	1B,	DR. RAJENDRA ROAD	110701400010	I	RELIGIOUS / BRAHMO PRAYER HALL		BRAHMO PRAYER HALL - SAMMILANI



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
10	233,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110700200097	I	ARCHITECTURAL STYLE		
11		LALA LAJPAT RAI SARANI		I	RELIGIOUS/CHRISTIAN CHURCH	POPULARLY KNOWN AS 43 LALA LAJPAT RAI SARANI	BHAWANIPUR CONGREGATIONAL CHURCH INDIAN
12	234/4,	ACHARYA JAGADISH CHANDRA BOSE ROAD	170700200012	I	RELATED TO ESTABLISHMENT		NIZAM PALACE WITH CAST IRON GATE
13	2,	BISHOP LEFROY ROAD	110701000020	I	ARCHITECTURAL STYLE		
14	1,	BIBHABATI BOSE SARANI	110703700019	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SARAT CHANDRA BOSE
15	237,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110700200190	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		NALINIRANJAN SARKAR
16	1,	BISHOP LEFROY ROAD	110701000018	IIA	ARCHITECTURAL STYLE		
17	6A,	BISHOP LEFROY ROAD	110701000043	IIA	ARCHITECTURAL STYLE		PAUL MANSION
	6B,	BISHOP LEFROY ROAD	110701000055				
	6C,	BISHOP LEFROY ROAD	110701000067				
	6D,	BISHOP LEFROY ROAD	110701000079				
	6E,	BISHOP LEFROY ROAD	110701000080				
	6F,	BISHOP LEFROY ROAD	110701000092				
	6G,	BISHOP LEFROY ROAD	110701000109				
	6H,	BISHOP LEFROY ROAD	110701000110				
	6J,	BISHOP LEFROY ROAD	110701000122				
	6K,	BISHOP LEFROY ROAD	110701000134				
	6L,	BISHOP LEFROY ROAD	110701000146				
	6M,	BISHOP LEFROY ROAD	110701000158				
	6N,	BISHOP LEFROY ROAD	110701000160				
	6P,	BISHOP LEFROY ROAD	110701000171				
	6Q,	BISHOP LEFROY ROAD	110701000183				
	6R,	BISHOP LEFROY ROAD	110701000195				
	6S,	BISHOP LEFROY ROAD	110701000201				
	6T,	BISHOP LEFROY ROAD	110701000213				
	6U,	BISHOP LEFROY ROAD	110701000225				
	6V,	BISHOP LEFROY ROAD	110701000237				
	6W,	BISHOP LEFROY ROAD	110701000249				
18	4,	BISHOP LEFROY ROAD	110701000031	IIA	ARCHITECTURAL STYLE		CALCUTTA MANSION
19	2,	O.C. GANGULY SARANI	110702300034	IIA	ARCHITECTURAL STYLE		
20	10/4D,	LALA LAJPAT RAI SARANI	110702200234	IIA	ARCHITECTURAL STYLE		R. ROY MANSION



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
21	16,	LALA LAJPAT RAI SARANI	110702200271	IIA	ARCHITECTURAL STYLE		LADY ROGERS INDIA NURSES HOSTEL
22	3,	O.C. GANGULY SARANI	150702300046 150702300228	IIA	ARCHITECTURAL STYLE		
23	12,	O.C. GANGULY SARANI	110702300782 110702300770 110702300769 110702300757 110702300733 110702300721 110702300710 110702300101 110702300794 110702300824 110702300812 110702300800 110702300745	IIA	ARCHITECTURAL STYLE		
24	14,	O.C. GANGULY SARANI	110702300113	IIA	ARCHITECTURAL STYLE		
25	40,	LALA LAJPAT RAI SARANI	110702200600	IIB	ARCHITECTURAL STYLE		BROJEN SEAL (ADVOCATE)
26	34/1,	LALA LAJPAT RAI SARANI	110702200490	IIB	ARCHITECTURAL STYLE		
27	15,	LALA LAJPAT RAI SARANI	110702200258	IIB	ARCHITECTURAL STYLE		
28	3,	SUBURBAN HOSPITAL ROAD	110703400061	IIB	ARCHITECTURAL STYLE		
WARD : 071							
1	244A,	ACHARYA JAGADISH CHANDRA BOSE ROAD	150710100044 150710100147 110710100100	I	HOSPITAL AND MEDICAL ESTABLISHMENT		P. G. HOSPITAL NOW RENAMED AS S. S. K. M. HOSPITAL
	244B,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110710100100				
	245,	ACHARYA JAGADISH CHANDRA BOSE ROAD	150710100056 150710100159				
2	241,	ACHARYA JAGADISH CHANDRA BOSE ROAD	110710100123 150710100019	I	RECREATIONAL		CALCUTTA CLUB
3		DEBENDRA LAL KHAN ROAD		I	BURIAL AND CREMATION		BHAWANIPUR WAR CEMETERY



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4	77,	SAMBHUNATH PANDIT STREET	150712201149 150712201824	I	RELATED TO ESTABLISHMENT		POLICE HOSPITAL BUILDING
5	246,	ACHARYA JAGADISH CHANDRA BOSE ROAD	150710100068 170710100019	I	RELATED TO ESTABLISHMENT		FORMER BRITISH MILITARY HOSPITAL & SADAR DIWANI & NIZAMAT ADALAT
6	248,	ACHARYA JAGADISH CHANDRA BOSE ROAD	150710100093	I	RELATED TO ESTABLISHMENT		TELEGRAPH STORES
7	38,	BENINANDAN STREET	110710400880	I	RELIGIOUS/HINDU TEMPLE		PANCHARATNA TEMPLE
8	48,	DEBENDRA GHOSH ROAD	110710900462	I	RELIGIOUS/MOSQUE		
9	91B,	CHOWRINGHEE ROAD	110710700060	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		DR. NALINIRANJAN SENGUPTA
10	247,	ACHARYA JAGADISH CHANDRA BOSE ROAD	150710100070 150710100160	IIA	RELATED TO ESTABLISHMENT		KOLKATA POLICE TRAINING SCHOOL
11	1,	SAMBHUNATH PANDIT STREET	110712200017	IIA	ARCHITECTURAL STYLE		SANTI KUTIR
WARD : 072							
1		CHAKRABERE ROAD SOUTH		I	PARK, WATERBODY & MEMORIAL	JUNCTION OF TOWNSHEND ROAD AND CHAKRABERIA ROAD SOUTH	NAFAR KUNDU MEMORIAL
2	77,	ASHUTOSH MUKHERJEE ROAD	110720200120	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		ASHUTOSH MUKHERJEE NOW ASHUTOSH MEMORIAL INSTITUTE
3	37,	SHYAMA PRASAD MUKHERJEE ROAD	110723100343	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		ANCESTRAL HOUSE OF DESHBANDHU CHITTARANJAN DAS
WARD : 073							
1	15/2,	SASI SEKHAR BOSE ROW	110732100430	I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	ABHOY GHAT OR LAL GHAT
2	15,	SASI SEKHAR BOSE ROW	110732100179	I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	MADHAB GHAT
3	13A,	SASI SEKHAR BOSE ROW	110732100428	I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	MADANMOHAN PAL GHAT OR GOPAL GHAT
	13B,	SASI SEKHAR BOSE ROW	110732100350				
4		MADAN PAL LANE		I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL, 17, MADAN PAL LANE	BHANGA GHAT (UPENDRA NATH GHOSH'S GHAT)



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
5	2A, 2B,	HARISH CHATTERJEE STREET	110730900028 110730900030	I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	BAIJNATH GHAT
6	3,	HARISH CHATTERJEE STREET	110730900065	I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	GOLOK KOYAL GHAT
7	16E,	HARISH CHATTERJEE STREET	110730900235	I	RELIGIOUS / HINDU TEMPLE		TEMPLE COMPLEX WITH MUKHERJEE GHAT
	16, 16A, 16D, 16/1,	HARISH CHATTERJEE STREET	110730900200 110730900193 110730900223 110730902359				
8	17B, 17A,	PREMENDRA MITRA SARANI	110732600012 110732601387	I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	BALARAM BOSE GHAT WITH TEMPLE COMPLEX
9	61, 61/1,	HARISH MUKHERJEE ROAD	110731001996 110731001364	I	PARK, WATERBODY & MEMORIAL		HARISH PARK INCLUDING HARISH MEMORIAL
10	92,	SHYAMA PRASAD MUKHERJEE ROAD	110732400709	I	SCHOOL / COLLEGE (INCL. HOSTEL)		ASUTOSH COLLEGE
11	38,	SHYAMA PRASAD MUKHERJEE ROAD	110732400205	I	RECREATIONAL		BIJOLI CINEMA HALL
12	42,	SHYAMA PRASAD MUKHERJEE ROAD	150732400783 150732400229	I	RELATED TO ESTABLISHMENT		BHOWANIPUR P.S.
13		DEBENDRALAL KHAN ROAD		I	BRIDGE	OVER TOLLY'S CANAL, NEAR BHOWANIPORE ROAD - JAIL LANE	ALIPORE BRIDGE
WARD : 074							
1	20A, 20B, 20C, 20D,	JUDGES COURT ROAD	150741600274 150741600286 150741600298 150741600304	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		HASTINGS HOUSE
2	1A,	ALIPORE ROAD	110740500879	I	PUBLIC INSTITUTION		THE AGRI-HORTICULTURAL SOCIETY OF INDIA
3	1A, 1B, 1C,	BELVEDERE ROAD	170740800036 150740800012 150740800024 150740800036 170740800024	I	PUBLIC INSTITUTION		NATIONAL LIBRARY



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
4	4,	DUELA VENUE	150741200041 170741200016	I	PUBLIC INSTITUTION		ALIPORE OBSERVATORY
5	2, 4,	ALIPORE ROAD ALIPORE ROAD	150740500909 150740501689	I	PARK, WATERBODY & MEMORIAL		ZOOLOGICAL GARDEN
6	7B,	JUDGES COURT ROAD	110741600572	I	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RASHBEHARI GHOSH
7	15, 17,	JUDGES COURT ROAD JUDGES COURT ROAD	150741600213 150741601000 150741600250 150741601011	I	RELATED TO ESTABLISHMENT		ALIPORE CENTRAL JAIL
8	2, 2/1, 2/2, 3,	THACKERAY ROAD THACKERAY ROAD THACKERAY ROAD THACKERAY ROAD	150742500020 150742500070 150742500032 150742500081 150742500044 150742500093 150742500100 150742500056	I	RELATED TO ESTABLISHMENT		PRESIDENCY JAIL
9		THACKERAY ROAD		I	RELATED TO ESTABLISHMENT		A.D.M.'S RESIDENCE (SOUTH 24 PARGANAS)
10	2, 2/1,	BIPLABI KANAILAL BHATTACHARJEE SARANI BIPLABI KANAILAL BHATTACHARJEE SARANI	150740700250 150740700017 150740700029 150740700261	I	RELATED TO ESTABLISHMENT		ALIPORE JAIL SUPERINTENDENT'S QUARTER
11	2/2,	BIPLABI KANAILAL BHATTACHARJEE SARANI	170740700017 150740700030	I	RELATED TO ESTABLISHMENT		ALIPORE POST OFFICE
12	18,	JUDGES COURT ROAD	150741600262 150741601023	I	RELATED TO ESTABLISHMENT		ALIPORE JUDGE'S COURT
13	32, 33,	BELVEDERE ROAD BELVEDERE ROAD	150740800401 150740800619 150740800620 150740800413	I	RELATED TO ESTABLISHMENT		RESIDENCE OF DIRECTOR GENERAL OF POLICE, GOVT. OF WEST BENGAL
14	3A,	DIAMOND HARBOUR ROAD	110741100447	I	RELIGIOUS/CHRISTIAN CHURCH		ST. STEPHEN'S CHURCH



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSEESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
15	11,	GOPAL NAGAR ROAD	110741400443	I	RELIGIOUS/MOSQUE		AFTAB MASJID
	10B,	GOPAL NAGAR ROAD	110741400248				
16		ALIPORE PARK ROAD		I	RELIGIOUS/MOSQUE	POPULARLY KNOWN AS 2A & 2C ALIPORE PARK ROAD	
17	1,	THACKERAY ROAD	150742500068	I	RELATED TO ESTABLISHMENT		DISTRICT MAGISTRATE'S RESIDENCE (SOUTH 24 PARGANAS)
			150742500019				
18	4,	DIAMOND HARBOUR ROAD	110741100022	IIA	SCHOOL / COLLEGE (INCL. HOSTEL)		ST. THOMAS' SCHOOL
	4/1,	DIAMOND HARBOUR ROAD	110741100010				
	4/2,	DIAMOND HARBOUR ROAD	110741100034				
WARD : 075							
1	10,	MUNSHI PREMCHAND SARANI	110752400179	I	RELIGIOUS / CHRISTIAN CHURCH		HASTINGS CHAPEL
2	5,	MUNSHI PREMCHAND SARANI	110752400076	I	RELIGIOUS / MOSQUE		
3	5,	MIDDLE ROAD	150751800101	IIA	RELATED TO ESTABLISHMENT		HASTINGS P.S.
			150751800083				
WARD : 076							
1		PADDAPUKUR SQUARE		I	PARK, WATERBODY & MEMORIAL		PADDAPUKUR TANK
2	2A,	RAM KAMAL STREET	110762000040	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RANGALAL BANDYOPADHYAY
	2B,	RAM KAMAL STREET	110762000957				
			110762000969				
3	1/1A,	PADDAPUKUR SQUARE	110761700029	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		HEMCHANDRA BANDYOPADHYAY
	1,	PADDAPUKUR SQUARE	110761700017				
	1/2,	PADDAPUKUR SQUARE	110761700042				
	1/1C,	PADDAPUKUR SQUARE	110761700030				
4	134F,	KARL MARX SARANI	110761101201	I	RELIGIOUS/MOSQUE	JNUCTION OF KAVITIRTHA SARANI & KARL MARX SARANI	RED MOSQUE
	134C,	KARL MARX SARANI	110761100853				
	134D,	KARL MARX SARANI	110761100865				
	134B,	KARL MARX SARANI	110761100841				
	134/2,	KARL MARX SARANI	110761100890				
	134/1,	KARL MARX SARANI	110761100889				
	134E,	KARL MARX SARANI	110761100877				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
5		KARL MARX SARANI		I	RELATED TO ESTABLISHMENT	POPULARLY KNOWN AS 100A, KARL MARX SARANEE	KIDDIRPUR POST OFFICE
WARD : 077							
1	20C,	KARL MARX SARANI	110771100211	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		MICHAEL MADHUSUDAN DUTTA
	20A,	KARL MARX SARANI	110771100193				
	20B,	KARL MARX SARANI	110771100200				
WARD : 078							
1	70/1A,	KAVI MOHAMMED IQBAL ROAD	110780900222	I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND, SOLO-ANA
	70/1B,	KAVI MOHAMMED IQBAL ROAD					
	70/1C,	KAVI MOHAMMED IQBAL ROAD	110780900234				
	70/1D,	KAVI MOHAMMED IQBAL ROAD	110780900246				
WARD : 079							
1	49/1,	KARL MARX SARANI	110791601150	I	RELIGIOUS/HINDU TEMPLE		RAKTAKAMALESWAR & KRISHNACHANDRESWAR SIVA TEMPLES AND THAKURBARI INCLUDING GATEWAY OF BHUKAILAS RAJBARI
	49/1,	KARL MARX SARANI	110791600261				
	49/3,	KARL MARX SARANI	110791600327				
	49,	KARL MARX SARANI	110791600042				
	49/1,	KARL MARX SARANI	110791601149				
	49,	KARL MARX SARANI	110791600054				
	49/1,	KARL MARX SARANI	110791600157				
2	3,	HARABAS ROAD	110791000014	I	BURIAL AND CREMATION		EKBALPUR CEMETERY
3		KARL MARX SARANI		I	BRIDGE	OVER TOLLY'S CANAL, NEAR THE CONFLUENCE OF HOOGHLY RIVER	LIFT BRIDGE
WARD : 080							
1	10A,	GARDEN REACH ROAD	170801000060	I	RELATED TO ESTABLISHMENT		SOUTH EASTERN RAILWAY HEADQUARTERS
			150801000149				
	10B,	GARDEN REACH ROAD	170801000071				
			150801000150				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
11A,		GARDEN REACH ROAD	170801000095				
			150801000162				
11B,		GARDEN REACH ROAD	170801000101				
			150801000174				
11C,		GARDEN REACH ROAD	170801000083				
			150801000137				
13,		GARDEN REACH ROAD	150801000095				
			170801000010				
14,		GARDEN REACH ROAD	170801000046				
			150801000186				
2	12,	GARDEN REACH ROAD	150801000083	I	RELATED TO ESTABLISHMENT		SOUTH EASTERN RAILWAY GM'S RESIDENCE
			170801000058				
WARD : 081							
1	1A,	MONDAL'S TEMPLE LANE	110810700014	I	RELIGIOUS/HINDU TEMPLE		NAVARATNA TEMPLE & RASMANCHA
2		TOLLYGUNGE ROAD		I	RELIGIOUS/HINDU TEMPLE	POPULARLY KNOWN AS 86A, TOLLYGUNGE ROAD	TEMPLE OF MATHUR SHA
3		TOLLYGUNGE ROAD		I	RELIGIOUS/HINDU TEMPLE	POPULARLY KNOWN AS 78, TOLLYGUNGE ROAD	TEMPLE COMPLEX OF BARA RASHBARI INCLUDING CHARCHALA RASAMANCHA
4		TOLLYGUNGE ROAD		I	RELIGIOUS/HINDU TEMPLE	POPULARLY KNOWN AS 93, TOLLYGUNGE ROAD	TEMPLE COMPLEX OF CHOTA RASHBARI INCLUDING GHAT & NAHABATKHANA
5		SOMNATH LAHIRI SARANI		I	RELIGIOUS/MOSQUE	POPULARLY KNOWN AS 32, SOMNATH LAHIRI SARANI	
6	P-104,	DIAMOND HARBOUR ROAD	170810600019	IIA	RELATED TO ESTABLISHMENT		INDIA GOVERMENT MINT
WARD : 082							
1	67A,	CHETLA ROAD	110820402236	I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	RAKHALDAS AUDDY GHAT
	67B,	CHETLA ROAD	110820402285				
	67C,	CHETLA ROAD	110820402248				
	67D,	CHETLA ROAD	110820402297				
	67E,	CHETLA ROAD	110820402250				
2	69/3B,	CHETLA ROAD	110820401396	I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	PRASANNAMOYEE GHAT
	69/3A,	CHETLA ROAD	110820402303				



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
3	36,	JUDGES COURT ROAD	150820900108 150820900080	I	RELATED TO ESTABLISHMENT		PRESS & FORMS DEPARTMENT
4	2,	PITAMBAR GHATAK LANE	110821300022	I	BURIAL AND CREMATION		MUNSHI BURIAL GROUND, SUNNI
5	16A, 20, 18A,	PEARY MOHAN ROY ROAD PEARY MOHAN ROY ROAD PEARY MOHAN ROY ROAD	110821200180 110821200210 110821202050	I	RELIGIOUS/MOSQUE		MOSQUE INCLUDING WATERBODY
6	38,	GOPALNAGAR ROAD	150820700624 150820700090	I	RELATED TO ESTABLISHMENT		BENGAL GOVERNMENT PRESS
7	35,	GOPALNAGAR ROAD	150820700600 150820700612 150820700065 150820700077	I	RELATED TO ESTABLISHMENT		WEST BENGAL SURVEY BUILDING
WARD : 083							
1	162/1, 162,	KALIGHAT ROAD KALIGHAT ROAD	110831603446 110831603434	I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	TWO PANCHARATNA TEMPLES, AGHORE DUTTA GHAT
2		KALIGHAT ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL, ADJ. TO 278 KALIGHAT ROAD	KALIGHAT WITH TEMPLE
3	31,	RASH BEHARI AVENUE	110832700290 110832700307	I	RELIGIOUS / SIKH GURDWARA		JAGAT SUDHAR
4	4/1,	ISWAR GANGULY LANE	110831301478	I	RELIGIOUS/HINDU TEMPLE		DAKSHINAKALI TEMPLE - KALIGHAT
WARD : 084							
1	2A,	LIBRARY ROAD	110841000080	I	RELIGIOUS/CHRISTIAN CHURCH		GREEK ORTHODOX CHURCH
2	51/1A,	SATISH MUKHERJEE ROAD	110842001109	I	BURIAL AND CREMATION		MOSQUE AND MYSORE CEMETERY
3	4,	BEPIN PAL ROAD	110840200048	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		RAMESHCHANDRA MAJUMDAR
WARD : 085							
1	113,	RASH BEHARI AVENUE	110852102159	I	RELIGIOUS/HINDU TEMPLE		MAHANIRVAN MATH
2	24,	ASWINI DUTTA ROAD	110850100482	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SARATCHANDRA CHATTOPADHYAY
3	2/2,	SEVAK BAIDYA STREET	110852300073	IIA	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		PANKAJ KUMAR MULLICK



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 086							
1	125,	DR. MEGHNAD SAHA SARANI	110860700207	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		MEGHNAD SAHA
WARD : 087							
1	12,	BAROJ ROAD	110870200031	I	RECREATIONAL		CALCUTTA UNIVERSITY ROWING CLUB
2		DR. MEGHNAD SAHA SARANI		I	PARK, WATERBODY & MEMORIAL		RABINDRA SAROVAR INCLUDING HANGING BRIDGE
WARD : 088							
1		TOLLYGUNGE ROAD		I	PARK, WATERBODY & MEMORIAL		MYSORE GARDEN, KEORATALA GHAT, DESHBANDHU MEMORIAL AND OTHER MEMORIALS OF KEORATALA
2	166C,	SHYAMA PRASAD MUKHERJEE ROAD	110881800706	I	RELIGIOUS/MOSQUE		
	166A,	SHYAMA PRASAD MUKHERJEE ROAD	110881800846				
WARD : 089							
1	1,	PRINCE RAHIMUDDIN LANE	210891500014	I	LANDMARK	ENTRANCE TO PRINCE RAHIMUDDIN LANE	GATEWAY OF TOLLYGUNGE GHARIGHAR
2	72,	PRINCE RAHIMUDDIN LANE	210891500865	I	RELIGIOUS/MOSQUE		IMAMBARA
3	36,	PRINCE ANWAR SHAH ROAD	210891300232	IIA	RECREATIONAL		TECHNICIANS' STUDIO
WARD : 090							
1	15,	BAROJ ROAD	110900300049	I	RECREATIONAL	RABINDRA SAROVAR	CALCUTTA ROWING CLUB
2	13/1,	BAROJ ROAD	110900300025	I	RECREATIONAL	RABINDRA SAROVAR	LAKE CLUB
3	62/1,	KAVI BHARATI SARANI	110901800250	I	RELIGIOUS/BUDDHIST TEMPLE		LAKE TEMPLE
4	P-431,	HEMANTA MUKHOPADHYAY	110900702280	I	PUBLIC INSITUION		RAMAKRISHNA MISSION INSTITUTE OF CULTURE
5	36/1,	SOUTH END PARK	110902500510	IIB	BUILDING ASSOCIATED WITH EMINENT PERSONALITY		SACHIN DEV BARMAN
WARD : 092							
1	188,	RAJA SUBODH CHANDRA MULLICK ROAD	210921700088 210921700064 210921700027 210921700040 210921700039 210921700052	I	SCHOOL / COLLEGE (INCL. HOSTEL)		AUROBINDA BHAVAN WITH TWO WATERBODIES IN THE JADAVPUR UNIVERSITY CAMPUS AND THE OLD WOODEN BRIDGE OVER THE WATERBODY CLOSEST TO THE ROAD



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 093							
1		PRINCE ANWAR SHAH ROAD		I	RELIGIOUS/MOSQUE	POPULARLY KNOWN AS 142, PRINCE ANWAR SHAH ROAD	
WARD : 094							
1	3	DR. RADHA GOBINDA NATH SARANI	210941201180	I	BURIAL AND CREMATION		ROMAN CATHOLIC CEMETERY
2	307	PRINCE ANWAR SHAH ROAD	210940901881	I	RELIGIOUS/MOSQUE		PRINCE GOLAM MOHAMMED MOSQUE AND BURIAL GROUND
3	18	UDAY SHANKAR SARANI	210940300800	I	RECREATIONAL		ROYAL CALCUTTA GOLF CLUB
4	4	NETAJI SUBHAS CHANDRA BOSE ROAD	210940800020	IIA	RECREATIONAL		INDRAPURI STUDIO
5	51	DR. RADHA GOBINDA NATH SARANI	210941200849	IIA	RECREATIONAL	POPULARLY KNOWN AS 72, DESHPRAN SHASMAL ROAD, KOLKATA- 700 033	RADHA STUDIO
			210941200758				
WARD : 097							
1	120	DESHPRAN SHASMAL ROAD	210970400011	I	RECREATIONAL		TOLLYGUNGE CLUB
2		MAHENDRA NATH SEN LANE FAMILY		I	RELIGIOUS/HINDU TEMPLE		TEMPLE COMPLEX OF GHOSH
3		CHANDI GHOSH ROAD		I	RELIGIOUS/HINDU TEMPLE	ADJECENT TO KUDGHAT BUS TERMINUS AND METRO STATION.	TEMPLE COMPLEX OF KUDGHAT
4	30	CHANDI GHOSH ROAD	210970200770	IIA	RECREATIONAL		NEW THEATRES STUDIO
5	4	BABURAM GHOSH ROAD	210970100052	IIA	RECREATIONAL		TECHNICIANS STUDIO
WARD : 100							
1		NETAJI SUBHAS CHANDRA BOSE ROAD		I	RIVERFRONT STRUCTURE / BATHING GHAT	ON TOLLY'S CANAL	RATHTALA GHAT
WARD : 111							
1		BORAL MAIN ROAD		I	RIVERFRONT STRUCTURE / BURNING GHAT	ON TOLLY'S CANAL	GARIA BURNING GHAT WITH TEMPLES



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
WARD : 115							
1	33	MAHATMA GANDHI ROAD	411150602018	IIA	RELIGIOUS/HINDU TEMPLE	POPULARLY KNOWN AS 32, MAHATMA GANDHI ROAD	TEMPLE COMPLEX OF KARUNAMOYEE, PASCHIM PUTIARY
WARD : 116							
1		PRAN KRISHNA CHANDRA LANE		I	RELIGIOUS/HINDU TEMPLE	POPULARLY KNOWN AS 22, PRAN KRISHNA CHANDRA LANE	TEMPLE COMPLEX OF ITALGHATA, KAMARGHAT TWELVE SIVA MANDIR
WARD : 119							
1		DIAMOND HARBOUR ROAD		I	RELIGIOUS/HINDU TEMPLE	ADJACENT TO 53, 53A/1, 53B/1, 053/1, 053A, 053B & 053C DIAMOND HARBOUR ROAD. ABUTTING TO SILTHAKURBARI LANE	THAKURBARI OF MATILAL SEAL
WARD : 120							
1		SATYEN ROY ROAD		I	PUBLIC INSTITUTION	POPULARLY KNOWN AS 1, SATYEN ROY ROAD, BEHALA	STATE ARCHAEOLOGICAL MUSEUM
WARD : 125							
1		NARAYAN ROY ROAD		I	ARCHITECTURAL STYLE	ADJACENT TO 29/1 NARAYAN ROY ROAD, BEHALA	TYPICAL BENGAL ATCHALA SHIBMANDIR ESTABLISHED BY RAMCHAND ROYCHOWDHURY IN 1206 BENGALI YEAR.
WARD : 126							
1		SABARNAPARA ROAD		I	ARCHITECTURAL STYLE	ADJACENT TO 26, SABARNAPARA ROAD	TEMPLE NAMED SANJHER ATCHALA, NOW WITH A CONCRETE ROOF AND OPEN SPACE IN FRONT WITH FREE- STANDING COLUMNS. THE TEMPLE IS BUILT BY SABARNA CHOWDHURY FAMILY.



Graded List of Heritage Buildings (I, IIA and IIB)

SL.NO.	PR. NO.	STREET NAME	ASSESSEE NO	GRADE	CRITERIA	LOCATION	DESCRIPTION
2		SABARNAPARA ROAD		I	ARCHITECTURAL STYLE	ADJACENT TO BARISHA GIRLS' HIGH SCHOOL AT 166 SABARNAPARA ROAD	TWELVE TEMPLES WITH A DOLMANCHA IN THE PREMISES OF BARISHA GIRLS' HIGH SCHOOL HAVING A LARGE OPEN SPACE IN FRONT.
WARD : 131							
1		ARYA SAMITY ROAD		I	RELIGIOUS/HINDU TEMPLE	ADJACENT TO ARYA SAMITY AT 4, ARYA SAMITY ROAD, KOLKATA - 700 060, BEHALA	TYPICAL BENGAL CHARCHALA TEMPLE
WARD : 132							
1		BONOMALI NASKAR ROAD		I	RELIGIOUS/HINDU TEMPLE	POPULARLY KNOWN AS 100, BONOMALI NASKAR ROAD, BEHALA, KOLKATA - 700 060	TWO TYPICAL ATCHALA TEMPLES HAVING A LARGE WATER BODY IN FRONT
2	91A	BONOMALI NASKAR ROAD	411320201565	I	ARCHITECTURAL STYLE	POPULARLY KNOWN AS 104 BONOMALI NASKAR ROAD, BEHALA, KOLKATA - 700 060	TYPICAL THAKURDALAN WITH A COURTYARD AND OPEN SPACE IN FRONT
WARD : 133							
1	N-134	RAMESWARPUR ROAD	511331800045	I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND, GARDEN REACH NO.1
2	J-149	PAHARPUR ROAD	511331703015	I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND, GARDEN REACH NO.2
3	J-124/1	RAMNAGAR LANE (WEST)	511332200311	I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND, GARDEN REACH NO. 3
4		RAMNAGAR LANE (WEST)		I	BURIAL AND CREMATION		MUSLIM BURIAL GROUND, GARDEN REACH NO. 4, JADID SOLOANA (SUNNI)
WARD : 135							
1	P-34	GARDEN REACH ROAD	511350501440	I	RELIGIOUS / MOSQUE		SIBTAINABAD IMAMBARA
2		IRON GATE LANE		I	RELIGIOUS / MOSQUE	POPULARLY KNOWN AS B-16, IRONGATE LANE	SHAHI MOSQUE, IRONGATE, METAIBURZ
MAIDAN AREA							
1		STRAND ROAD		I	RIVERFRONT STRUCTURE		PRINSEP GHAT
2		STRAND ROAD		I	RIVERFRONT STRUCTURE		GWALIOR MONUMENT
3		STRAND ROAD		I	RIVERFRONT STRUCTURE		WATER GATE-FORT WILLILAM
4		STRAND ROAD		I	RIVERFRONT STRUCTURE		LASKAR MEMORIAL