

KOLKATA

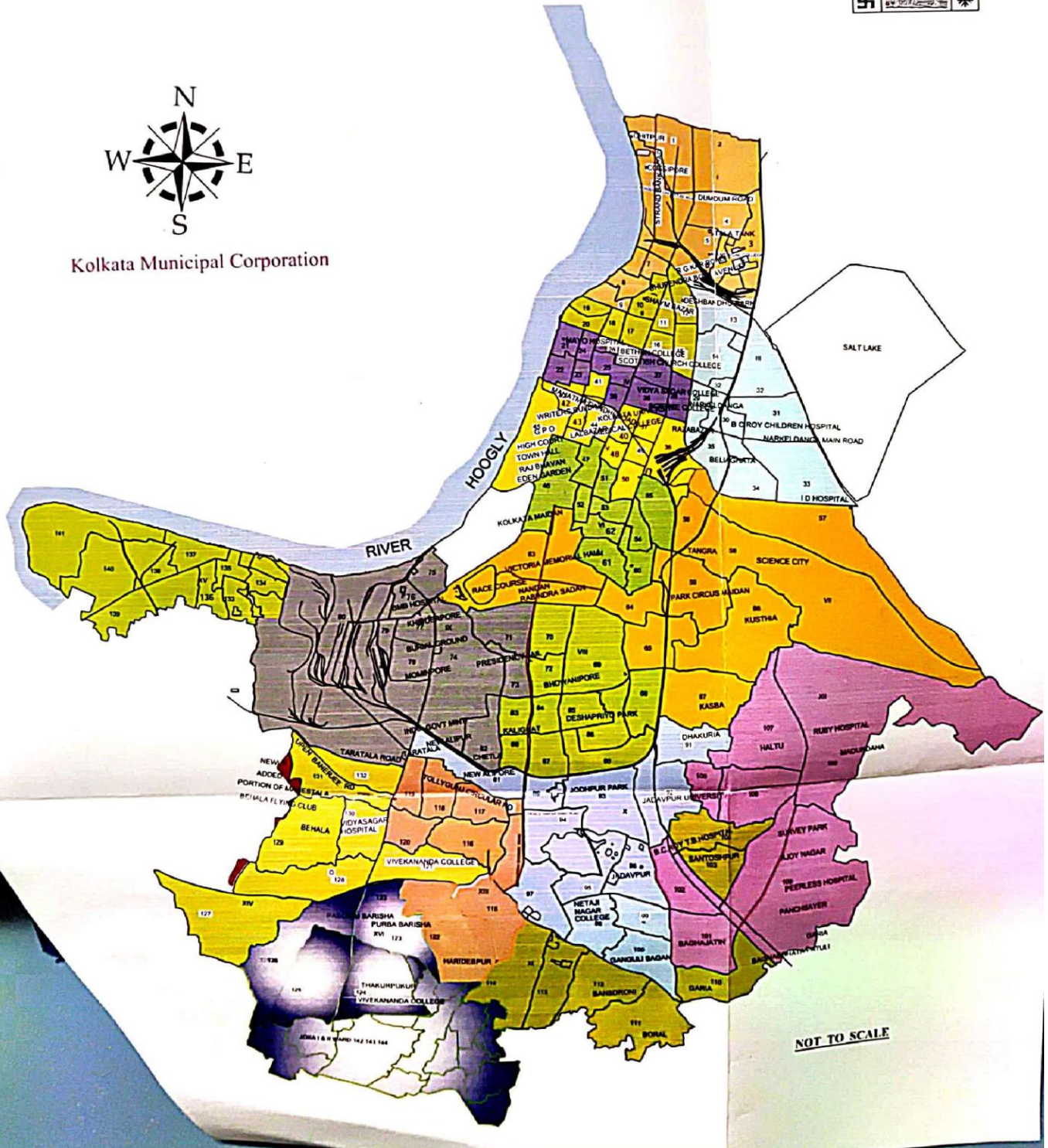


THE KOLKATA MUNICIPAL CORPORATION

MAP OF KOLKATA MUNICIPAL CORPORATION



Kolkata Municipal Corporation



NOT TO SCALE

PROFILE OF KOLKATA

GEOGRAPHICAL LOCATION: Kolkata located at 22°30' North latitude, 88°30' East longitude, is the main port entry in North Eastern India. It is 120KM from the Bay of Bengal and stands on the eastern bank of river Hooghly (Ganga).

AREA: 206.08 Sq. Km.

POPULATION: More than 4.5 million.

FLOATING POPULATION: 60,00,000 perday.

DENSITY: 24,252perSq.Km.

NO. OF BOROUGHES: 16

NO. OF WARDS: 144

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1. Indicative Gap Analysis and Action Plans for complying with Waste Management Rules

1.1. Solid Waste Management

a. Current status related to solid Waste management:

Sl. No.	Urban Local bodies	No of Wards	No of Households	Population	Solid Waste Generated Per day
1	Municipal corporation: Kolkata Municipal Corporation	144	1056351 (as Per 2011 census)	45,00,000	4500 MT/Day
2	Municipalities(Nagar Palikas):				
3	Local Bodies: Blocks	No of Village panchayats/Blocks	No of Households	Population	Solid Waste Generated per day

b. Identification of gaps and Action plan:

SL. No.	Action points for blocks / town municipalities / City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Segregation				
i)	Segregation of waste at source	Whether segregation at Source practiced by households and other waste generator? Yes, In all 144 Wards.	Partial segregation in all 144 wards and KMC's target to achieve 100% in all wards within 1 year	KMC & 16 nos. of contractual agencies covered 16 boroughs i.e. 144 wards	It is an ongoing process and needs to increase the efficiency in 144 wards.
2.	Sweeping				
i)	Manual Sweeping	In convention process. -% or length of Road not covered Regular sweeping -50% (service provided in those area alternates days in a week)	To render the sweeping services in the gap areas mainly in lanes and bye-lanes	KMC & 14 nos. of contractual agencies covered 16 boroughs i.e. 144 wards	It is an ongoing process and needs to increase the sweeping services in 144 wards.

		<p>-Gaps in manpower - About 2000 nos. -Gaps in availability of sweeping tools/ equipments - At present there is no gap -Availability of suitable PPEs -Yes. KMC Provides Apron, Mask, Gloves, Shoes etc.</p>			
ii)	Mechanical Road Sweeping & Collection	<p>Gaps if any in achieving targeted area or length of road identified for mechanical road sweeping. Yes, Sweeping may be covered by the mechanical sweepers. However due to Unauthorized parking the targeted areas are unable to achieve.</p>	Need support from Kolkata Police to fulfill the targeted areas of Street Sweeping.	KMC	Six Months
3.	Waste Collection				
i)	<p>100%collection Of solid waste Yes. 144 Wards are covered to door to door collection but about 5% is still not achieved in some areas within the Ward - 107, 108, 109, 142, 143 & 144</p>	<p>Whether 100% Collection achieved? Yes. 144wards Are covered for door to door collection but about 5% is still Not achieved in Some areas Within the Ward -107,108,109, 142,143&144 -Nos of mazdoor Required to collect the waste: About 14000 nos.</p>	<p>Action plan to improve Existing collection: Daily collection is not achieved due to shortage of manpower. However KMC provides services in those areas on alternate days in a week.</p>	KMC & 14 nos. contractual agencies covered 16 boroughs i.e. 144 wards	It is an ongoing process and needs to increase the collection efficiency in those 5% areas within one year.

ii)	Arrangement for Door to door collection Manpower Articles 10Ltbin, 0ltbin, 240ltbin 3. Primary collection equipment/ vehicle-Compartmentalized Tricycle, Handcart, Autotippers, BOHD	Arrangement for door to door provided: Partial door to Door collection Manpower-8000nos. 10ltbin-3087834 nos. 40ltbin-37764nos. 240lt. bin-18000nos. Compartmentalized Tricycle- 4720 nos. Handcart-8000 nos Autotippers-45 nos. 8.BOHD-1600nos.	If there is gap in action plan for door to door collection across the district: Yes. 1. Manpower- 500 nos. 2. Auto tipper- 200 nos. (yet to receive within 3 months)	KMC & Contractual Agencies	Day to day activity.
iii)	Waste Collection Trolleys with Separate compartments needed? 1. 4720 nos. of compartmentalized tricycle, 2. 245 nos. of Auto tippers 3. 1600 nos. of Battery operated Hydraulic Dumper	Check availability and adequacy and if it needs up gradation: Yes. Additional requirement of Auto tippers 200 nos.	Action plan for procurement if required: Procurement of different types vehicles, 200 nos. Auto tippers yet to receive within 3 months	KMC & Contractual Agencies	Day to day activity.
iv)	5 Mini Collection Trucks with separate Compartments Yes. 20 nos. of 5 CuM CNG driven tipper trucks	Check if adequate or Needs upgradation or not required: No requirement at present.	No.	KMC & Contractual Agencies	Already deployed in 16 boroughs
v)	Waste Deposition centres (for domestic Hazardous wastes Management for All ULBs.) 16 nos. of Domestic Hazardous Waste Centre are	Number of deposition centres required and nos. available: Available- 0 Required- 16 nos.	Project is under pipe line.	Contractual Agencies	It will be taken in a phased manner and expected to be completed within two years

	required.				
4.	Waste Transport				
i)	Review existing Infrastructure for waste Transport. Available 1. Tractors- 7 nos. 2. Non tipping truck- 8 nos. 3. Tipping truck- 302 nos. 4. 14 CuM Refuse collector- 95 nos. 5. 10.5 CuM portable Compactor containers- 275nos. 6. Pay loader/Backhoe loader- 8 nos 7. Carcass Van- 22 nos. 8. CNG driven Dumper Placer- 6 nos 9. Hook Loader- 90 nos	Requirement: 1. Tractors- Nil 2. Non tipping truck- Nil 3. Tipping truck- Nil 4. 14 CuM Refuse collector- 70 nos. (43 nos. delivered and 27 nos. yet to receive within 1 month) 5. 10.5 CuM portable Compactor containers- 114 nos. 6. Pay loader/Backhoe loader- 6 nos 7. Carcass Van- Nil 8. CNG driven Dumper Placer- Nil 9. Hook Loader- 35 nos	Action plan for short- comings identified: Tender completed. Work order to be issued shortly.	KMC & Contractual Agencies	Vehicles are already in running condition and additional requirement will be expected to receive within end of 2025.
ii)	Bulk Waste Trucks NA	[check adequacy] NA	[action plan Procurement NA	NA	NA
iii)	Waste Transfer Points Modern scientific compactor stations:136	[check whether available / adequacy] 15 nos. required	[action plan for installation if required] 10 nos tender completed 5 nos tender in process	Contractual Agencies	Six Months
5.	Waste Treatment and Disposal				
i)	Wet-waste Management: On-site composting by bulk waste Generators (Authority may decide on requirement as per	Whether number of bulk waste generators identified for installation: Yes, 744 Nos bulk waste ngenerator has been identified. By law already published	Action for getting Onsite composting Plants commissioned: List has been sent to UDMA department Govt. of W.B	UDMA & KMC	1 year

	Rules) List has been sent to UDMA Dept Govt. of West Bengal for decision making	in the KMC website for compliance.			
ii)	Wet-waste Management: Facility (ies) for central Bio methanation /Composting of Wet waste.	Whether facility exists /functional /needs up gradation? a)500TPD Windrow composting Facility exists and also needs up gradation. b)Also there are 6 no of OWC plant c)5 TPD Bio CNG plant at Dhapa	If not action plan for developing / upgradation of biomethanation Or composting facility: a)Augmentation of additional 500 TPD Compost plant at Dhapa. b)500 MT Bio CNG Plant at Dhapa c)600TPD in vessel composting plant	Contractual Agencies	2 year
iii)	Dry-Waste Management: Material Recovery for dry- waste fraction	Whether MRF facility exists? / is there any arrangement to sending the dry waste to any common MRF: a)2 TPD plastic waste processing plant at Dhapa. b)Work Order for the project “ Setting up Material Recovery Facility at Dhapa including Operation and Maintenance for the Kolkata City” has been given to M/s TrasCon Labs Private Limited. vide WO No: CME/SWM/L/N O-06/2024 Dated 14/03/2024. Plant setting up is going on and expected to be in operation in December’2024	Action plan for use of dry segregated waste in MRF Operation 1000 TPD Waste to Energy Plant at Dhapa. Project is under pipeline.	M/s Tras Con Labs Private Limited	Oct 2025

iv)	Disposal of inert and non recyclable wastes: Sanitary Landfill	Does the agency still Disposing waste in dumpsites? Yes Whether Sanitary Landfill available? No/Plan for constructing Sanitary landfill Or arrangement With	Action plan (i) to construct sanitary landfill If required (ii) Action plan to Minimize land filling 600 TPD Sanitary Landfill Site at Dhapa in 60 Acre land (from land to be recovered after Bio- Mining).	To be decided After Tender	June 2026
v)	Remediation of historic /legacy dumpsite	Whether existing old dumpsite if any required remediationas per rules? Yes	Action plan for remediation of legacy /historic dumpsite. 1) Bioremediation project on 12.14 hec land at Dhapa completed. 2) Biominning of LW at Dhapa of 40 lakh MT - ongoing stage 3) Bio minning of LW at Gardenreach of 1.5 lakh MT – ongoing stage	1)WBPCB 2) M/s D H Patel 3) M/s BVG India Ltd.	1)Work completed 2) June 2026 3) June 2025
vi)	Involvement of NGOs? N/A	Whether involvement Of NGOs envisaged Under Consideration	NGOs can be involved for management of solid waste campaign: Few NGOs showed interest and enlisted such NGOs for Awareness and IEC activities.		
vii)	EPR of Producers: Linkage With Producers/ Brand Owners N/A	As per rules, producers and brand-owners should facilitate in collection of packaging waste Mentioned in By-Laws N/A	Action plan for linkage of all producers/brand owners or their PROs For collection of Plastic waste Not yet Implemented But under Consideration N/A		

viii)	Authorization of Waste Pickers No	Yes/No NO	List of authorized waste pickers should be available Not yet Implemented		
ix)	Preparation of own bylaws to comply with SWM Rules 2016?	Yes/No Yes	If not prepared action plan for preparation of bylaws which may be applicable in cantonment Board jurisdiction Already enforced.	KMC	N/A

1.2. Plastic waste Management

a. Current status related to Plastic waste management

	Urban Local bodies	Estimated quantity of Plastic Waste Generated per day
1	Municipal corporation: Kolkata Municipal Corporation	217TPD
2	Municipalities (NagarPalikas)	
3.	Local Bodies: Blocks	Plastic Waste Generated per day

b. Identification of gaps and Action plan:

Sl. No.	Action points For village panchayats/ blocks/ municipalities /corporations	Identification of gap	Action plan	Agencies Responsible	Target time for Compliance
1.	Door to Door collection of dry waste including PW: YES	50%	1) To arrest the leakage from generation, and Storage point 2) Formalization of the informal waste pickers. 3) Intensive awareness is required in different markets so that single used plastic can be banned	KMC &WBPCB	Continuous process

2.	Facilitate organized Collection of PW at Waste transfer Point or Material YES	This infrastructure is linked to SWM management. May check gaps with respect to: N/A	Within the district Outline specific plans For Each village panchayat/block /municipality/ Nagar panchayat: N/A	Identify Agencies at Local and District level To implement and monitor: N/A	N/A
3.	Recovery Facility 2 TPD plastic Waste management plant has been taken up at Dhapa. 100 TPD MRF plant is in mobilization Period WO No CME/SWM/L/No-06/2024 dated: 14/03/2024	- Availability of transfer points and material recovery facility - Involvement of informal sector /NGO. - Registering waste pickers - Linkage with PW Recyclers Involvement of producers and brand owners At present there is no MRF plant, however 100 TPD MRF along with 10 TPD plastic plant may be commissioned on December 2024		KMC and contractual Agency	Dec 2024
4.	PW collection Centres: Yes, 39 nos. of dry waste collection centre.	Local Bodies may set- up own centres and also involve producers and brand-owners or their PROs to facilitate setting up of collection centres. KMC will use compactor	Existing Modern Compactor stations used for dry waste including plastic waste collection.	KMC and contractual Agency	KMC already has different collection centre for plastic waste

		stations for dry waste including plastic waste collection.			
5.	Awareness and education programs implementation Yes	Review existing gaps in creating awareness among public for minimizing and recycling PW: YES	Education through mass media, schools ,Producer/ brand owner campaigns and other channels 1) It has been done by KMC under guidance of mission nirmal bangla. It will be continued until people are aware. 2) A special drive was conducted by WBPCB and Environment & Heritage Dept. KMC and Market Dept. KMC from 4th april,2022 to 8th June 2023 for wide spread awareness on ban of single use plastic among traders and customers. 3)Initiative taken by Road Department , KMC Road Dept. have already done a trial mix of Hot Bituminous Asphalt modified with Waste plastic consisting of Polypropylene (PP) passing 2.36 mm and retained at 600 microns and had been laid at Netaji Subhas Road (Bakshi Bagan) in ward no. 130 under Br. XIV at crossing of Remount Road D.H. Road in ward no. 79 under BR IX.The Case study was done in accordance with the guidelines of IRC: SP: 98-2013 by Dry process as a Pilot Project. In a large	KMC and contractual Agency	N/A

			scale Road Dept. will soon take up projects in Bulk production of waste plastic Modified Road by Dry and Wet process from both Palmerbazar and Goragacha plant.		
6.	Access to Plastic Waste Disposal Facilities YES	Check if District has access to PW recycling/ utilization or disposal facilities. 2 TPD plastic Waste management plant has been taken up at Dhapa. 100 TPD MRF plant is in mobilization period WO No CME/SWM/L/No -06/2024 dated: 14/03/2024	Check if PW recycling facilities available at reasonable distance; Channel for sending PW collected to cement plants for processing; Availability of waste plastic oilproducing facilities; Linkage withPWD for usage of PW in road making. Action plan at district should involve Urban and Rural Local bodies 1) Agreement has been executed between D H Patel and Dalmia for processing of RDF after Bio mining of legacy waste. 2) 2 TPD plastic waste management plant has been taken up at Dhapa. 100 TPD MRF plant is in mobilization Period WO No CME/SWM/L/No-06/2024 dated: 14/03/2024	Starlite Eco friendly Pvt Ltd.	N/A

1.3. C&D Waste Management

a. Current status related to C&D Waste:

Details of Data Requirement	Present Status
Total C&D waste generation in MT per day(As per data from Municipal Corporations / Municipalities)	800TPD
Does the District has access to C&D waste recycling facility?	C&D plant under construction.

b. Identification of gaps and Action plan:

SL. No.	Action points for blocks / town municipalities / City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Arrangement for separate collection of C&D waste to C&D waste deposition point. Yes. Design, Installation and Commissioning of Construction& Demolition[C&D] Waste Processing plant of 500 TPD including Operation and Maintenance for a Period of 10years Work order has been Issued on 08.06.2021	Check gaps w.r.t: Separate collection point of C&D Waste Identification of common C&D waste deposition points KMC has separate arrangement for collection of silt, rubbish & C&D waste from different boroughs to Be used As sub-grade material of road. C&D was deposition point 104 No.	Action plan For every local body in district. District may identify common C&D Waste deposition points. Requesting to the adjoining ULBs to send their C&D waste at patharghata plant Letter is sued to Kolkata police to stop illegal dumping of C&D waste in low lying areas Building department of KMC is responsible for taking charges from the developers at the time of building sanction plan and the developer will get Completion certificate if they are able to show the C&D receipt from the patharghata	M/s. Hyderabad Integrated MSWLTD	Plant is in operation from 27.04.2023

			plant.		
2..	Whether local authority have fixed user fee on C&D waste and introduced permission System for bulk waste generators who generate more than 20 tons or more in oneday or 300 tons per projection a month? Yes KMC has already fixed user fee on C&D waste and published in the KMC’s website.	Check gaps with respect to: - Localby-lawsto Payuserfee - Implementationo f a system topermit bulk generators (>20 tons in one day or 300 tons per project) Dealt by Building Dept. KMC	Dealt by Building Dept. KMC	KMC	Ongoing
3.	C&D Recycle Facility Yes Sand and Aggregates are used.	Checkwhether District Waste recycling has any C&D facility After commencing the plant the recyclable materials to be used as the covering materialof roads and the subgrade materials of road. In future the materials will be used for paver block, tiles, kerb channels etc.	N/A	M/s. Hyderabad Integrated MSW LTD.	Plant is in operation

4.		Is there any policy on usage or promotion on usage of C&D waste? KMC follows the C&D Rules 2016	Design, installation and commissioning of construction and demolition (C&D) waste processing plant of capacity 500 TPD including operation and maintenance for a period of 10 years. After completion of installation of plant recycled material will be used.	M/s. Hyderabad Integrated MSW LTD.	Plant is in operation from 27.04.23
5.	ICE on C&D waste management	Is there any sustained system of relating awareness created among local communities. Yes Awareness is done as & when required.	Action plan for awareness and education It is a continuous process. KMC will give more emphasis on awareness.	KMC & the agencies.	Ongoing

1.4. Biomedical Waste Management

Previously it was done by KMC now it sent to Howrah.

a. Current Status related to biomedical waste:

From 1st April 2004 Bio-medical waste is separately collected by the private agencies M/s SEMBRAMKY (MEDICA INCIN) under the guidance of WBPCB.

Inventory of BMW in the District	Quantity
Total no. of Bedded Healthcare Facilities	03
Total no. of non-bedded HCF	164
No. of HCFs authorized by SPCBs/PCCs	64 (consent to Establish) 21 (consent to Operate)
No of Common Biomedical Waste Treatment and Disposal Facilities (CBWTFs)	
Capacity of CBWTFs	
No. of Deep burials for BMW if any	

Quantity of biomedical waste generated per day	
Quantity of biomedical waste treated per day	

b. Identification of gaps and Action plan:

S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of Action plan
1				Medicare Environmental Management Pvt. Ltd.	

1.5. Hazardous Waste Management

The responsibility of KMC is to handle Municipal Solid Waste only.

a. Current Status related to Hazardous Waste Management

Major source of hazardous waste (HW) is industries and facilities located in the districts, who are required to be regulated under Water (P&CP) Act 174, Air (P&CP) Act 1981 and E(P) Act, 1986 and the Rules notified thereof. Many commercial establishments like automobile repair shops, paint workshops, stores, etc. may also generate small quantities of hazardous waste. The district administration should beware of the type of hazardous waste generation in their district and adequacy of facilities for safe handling and disposal within or outside District. Linkage of district administration with common TSDFs in the State is necessary to establish system for safe disposal of domestic hazardous waste.

Details of Data Requirement	Present Status
No of Industries generating HW	
Quantity of HW in the district	
Quantity of Incinerable HW	10,800 TPA
Quantity of land-fillable HW	60,000 TPA
Quantity of Recyclable / utilizable HW	Inventory data available in the following link: https://www.wbpcb.gov.in/hazardous-waste-management
No of captive/common TSDF	01
Contaminated Sites or probable contaminated sites	At present there are more than nine hundred (900) nos. hazardous waste generating units in the State.

b. Identification of gaps and action plan:

Sl. No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Regulation of industries and facilities generating Hazardous Waste	Check whether all hazardous waste industries are identified and authorised by SPCBs/PCCs	<p>The Board has been empowered to grant Authorisation to all persons engaged in generation, collection, treatment, storage, transportation, use/processing or disposal of hazardous wastes in the State.</p> <p>The Board has a limited role in controlling the import and export of hazardous wastes through ports located in the State. The nodal authority in this case is the Ministry of Environment, Forests and Climate Change, GoI (MoEF). All importers and exporters of hazardous and other wastes listed in Parts A, B and C of Schedule III of the Rules are required to apply for and obtain formal clearance from the MoEF before undertaking any such activity. A copy of the application is required to be submitted to the Board and in case the Board has any views or objections, the same is communicated to the MoEF.</p>	WBPCB	N/A
2.	Establishment collection centres	Check district has collection centres for hazardous wastes with linkage to common	Details available in the following link: https://www.wbpcb.gov.in/hazardous-waste-management	WBPCB	N/A

		TSDFs /recyclers			
3.	Training of workers involved in handling / recycling/ disposal of HW	Identify facilities / industries engaged in recycling/pre-processing / disposal of hazardous waste in the district.	Details available in the following link: https://www.wbpcb.gov.in/hazardous-waste-management	WBPCB	N/A
4.	Availability / Linkage with common TSD For disposal facility	Check if the generators of HW have access to common TSD in the State?	Details available in the following link: https://www.wbpcb.gov.in/hazardous-waste-management	WBPCB	N/A
5.	Contaminated Sites	Are there any sites where soils / sediments/ groundwater contaminated due to dumping of industrial wastes	Details available in the following link: https://www.wbpcb.gov.in/hazardous-waste-management	WBPCB	N/A

1.6. E-Waste Management

a. Current Status related to E-Waste Management

Details of Data Requirement	Present Status
Inventory of E-Waste in MT/year	1.613 MT(01/04/2021-31/03/2022) 3.415MT (01/04/2022-31/03/2023)
Collection centers established by ULBs in the District	Collected centrally mainly at Information Technology Department, 48 Market Street From Different KMC departments and handed over to Dismantler M/s P U Steel & Electro Process PVT Ltd , Gora Pada Sarkar Lane, Kolkata-700067, Mob- 9830747433, Email- prosenjit@gmail.com
Collection centers established by Producers or their PROs	Not Applicable

No authorized E-Waste recyclers / Dismantler	1
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b. Identification of gaps and action plan:

Sl. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory / Generation of E- Waste /Bulk-waste generators	Check whether SPCB/PCC has completed inventory of E-Waste in the District. Inventory of bulk waste generators	Completion of the Inventory	SPCB/PCC	
2	E-Waste collection points	Availability of E-Waste collection points / call centres / kiosks in villages - Blocks / towns/cities	Identification / registering E-Waste collection centres in association with Producers - their PROs or Recyclers :	ULBs and possible private agency	We have installed e-waste drop boxes at three locations: Borough I, Borough IX, and Borough XVI, allowing citizens to conveniently deposit their e-waste. This initiative was launched in February 2023. Furthermore, our Hon'ble Mayor announced on September 7, 2024, that the process of setting up e-waste drop boxes in every borough has commenced. The e-waste collected will be processed in collaboration with WEBEL, and a fixed price will

					be given to citizens who deposit their e-waste
3	Linkage among Stakeholders to Channelize E-Waste	Check whether District Administration has Information on Collection centres Established by Producers/PROs ? Administration Should also identify Authorized E-Waste Recyclers in the District or in State to channelize E-waste collected in District.	Action plan to establish linkages between ULBs / Collection Centres of Producers and PROs / SPCBs / Bulk waste generators / Recyclers /SPCBs / District Administration/ Public		
4	Regulation of Illegal E Waste recycling / dismantling	Prevalence of informal trading, dismantling, and recycling of E-Waste is in District: Not initiated	Action planning coordination with SPCBs/PCCs and District Administration to Check this activity.		
5	Integration of informal sector	Whether mechanism exists for bringing informal sector into main stream in collection and recycling of E-Waste:	Evolve mechanism by involving producers/ PROs:	ULBs with other relevant stakeholders	
6	Awareness and Education	Are there any programs at district level for Awareness about E- waste management?	Plan special workshops and awareness campaigns through Producers/PROs:		

1.7. Air Quality Management

a. Current Status related to Air Quality Management:

Details of Data Requirement	Present Status
Number of Automatic Air Quality monitoring stations in the district. Operated by SPCB / State Govt. / Central govt./ PSU agency: Operated by Industry:	5Nos.
Number of manual monitoring States operated by SPCBs	13 Nos.
Name of towns / cities which are failing to comply with national ambient air quality stations	N/A
No of air pollution industries	N/A
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads]/ [Burning of Waste Stubble]/ [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	Road Dust

b. Identification of gaps and action plan:

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
1.	Identification of prominent air polluting sources?	Carry out inventory of air pollution sources in District including hotspots or areas of concern pertaining to air pollution in association with SPCBs/PCCs may	Source apportionment study is being carried out by WBPCB by engaging NEERI	Almost Completed.
2.	Ambient Air quality data?	Plan to get access to available air quality monitoring stations in the District operated by both Public and private agencies.	Air Quality data is available in both WBPCB and KMC Website which is in public domain.	Completed.

3.	Setting up of Continuous Ambient Air Quality Monitoring Station	Like weather station, District may also have ambient air quality monitoring at major urban settlements or populated areas. Action plan may propose setting up at least one CAAQMS in District. Also access data generated by CAAQM stations installed by other pvt/public agencies. District authority in association with local office of SPCB/ PCC should also ensure that at least one manual Air Quality monitoring station is available in each city. [District admin may set-up its own network of CAAQMS or manual stations]	WBPCB	Already set up. Some additional stations will be set up as per requirements in due course.
4.	District Level Action Plan for Air Pollution	Action plan should be prepared for both improvement of existing air quality as well as for non- attainment days to national ambient air quality standards. [Measures may include multi sectoral approach for air pollution control such as promotion of public transport, use of green fuels, E-mobility, LPG based cooking, carpeting open areas/ kerbs, etc. Action plans envisaged in NCAP project initiated by MoEF&CC may be referred]	KMC	Micro Plan Prepared and submitted before CPCB.
5.	Hotspots of air pollution	Hotspot with respect to air pollution (such as	KMC and WBPCB	Some dumping sites and large

	in District	stubble burning, illegal waste burning, unauthorized operations, cluster activities, forest fires etc.) should be identified and localized action plan for mitigation of the same should be prepared.		construction sites will Be selected As hotspots shortly.
6.	Awareness on Air Quality	Plan for dissemination of information on local air quality in towns and cities located in District. May consider developing Mobile App / Online Portal for dissemination of Air quality as well as to take complaints on local Air pollution.	KMC and WBPCB	Done

1.8. Water Quality Management

1.8.1. Water Quality Monitoring

a. Current Status related to Water Quality Management

Details of Data Requirement	Present Status
Rivers	Hooghly River (Source of drinking water supply for KMC)
Length of Coastline (if any) [in Km]	
Nalas/Drains/Creeks meeting Rivers	03Nos.
Lakes/Ponds	3777Nos.(as per departmental tank list)
Total Quantity of sewage from towns and cities in District	1400[MLD]
Quantity of industrial waste water [MLD]	
Percentage of untreated sewage	22.21%
Details of bore wells and number of permissions given for extraction of groundwater	5706Nos.
Ground water polluted are as if any	NIL
Pollute driver stretches if any [Length in Km]	

b. Identification of gaps and action plan for water quality monitoring:

S. No.	Action points	Gaps and Action Plan	Timeline for completion of action plan
1.	Inventory of water bodies	KMC is having its inventory of water bodies (departmental tank list as prepared on 1993 and NRSA (Aerial) Map prepared on 2004. Water bodies are protected under provision of West Bengal Inland Fisheries Act 1993 (Amended). Notice u/s 53 The West Bengal Town and Country (Planning and Development) Act, 1979 issued and FIR lodged with concerned Police Station in case of illegal filling of water body. Rejuvenation of privately owned water body is made on taking management control invoking 17A West Bengal Inland Fisheries Act 1993 (Amended) Privately owned water body is cleaned to prevent spreading of mosquito borne disease if notice u/s 496A KMC act 1980 is issued. No sewage water is allowed to fall into the water body.	Continuous process.
2.	Quality of water bodies in the district		
3.	Hotspots of water contamination		
4.	Protection of river/ lake water front		
5.	Inventory of sources of water pollution		
7.	Protection of flood plains		
8.	Rejuvenation of groundwater		

1.9. Domestic Sewage**a. Current Status related to Domestic Sewage**

Details of Data Requirement	Present Status
No of Class-II towns and above	N/A
No of Class-I towns and above	N/A
No of Towns STPs installed	N/A
No of Towns needing STPs	N/A
No of ULBs having partial underground sewerage network	N/A
No of towns not having sewerage network	N/A

Total Quantity of Sewage generated in District from Class II cities and above	1400MLD
Quantity of treated sewage flowing into Rivers (directly or indirectly)	910 MLD in EKW fisheries+ 179 MLD in existing 5 nos. STPs= Total 1089MLD
Quantity of untreated or partially treated sewage (directly or indirectly)	311MLD
Quantity of sewage flowing into lakes	00
Total available Treatment Capacity	910 MLD in EKW fisheries+ 179 MLD in existing 5 nos. STPs = Total 1089 MLD

b. Identification of gaps and action plan for treatment of domestic sewage:

Sl. No.	Action points	Gaps and Action Plan Responsible agency	Timeline for completion of action plan
1.	Sewage Treatment (STPs) Plants & Underground sewerage network	KMC	

Total Sewage Generation (A)	Sewage treated naturally in fisheries of EKW (B)	Sewage treated in existing 5 nos. STPs (C)	Total treatment capacity of upcoming STPs					Gap in capacity (E) = A - (B+C+D)	Remarks
			STPs Under Construction	STPs for which Tender Invited		Proposed STPs			
			Under KEIP- (45+40)	Under KEIP	Under Tollys Nurallah	Under KEIP	Under Municipal Waste Water Project		

1400 MLD	910 MLD	179 MLD	85 MLD	23 MLD	26.06 MLD	70 MLD *	76 MLD	30.94 MLD	*under KEIIP Tranche-3, STP of approx 70 MLD is under consideratio n for Ward108, 109 (part) and 110.
Total=280.06MLD								Say,31 MLD	

1. Details of each existing STP

No ·	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
A	B	C	D	E	F
1	Bangur (22.60561, 88.41498)	52	26	Operational	Complied as per design standards
2	Garden Reach (22.52186, 88.28669)	57	53.68	Operational (Under Rejuvenation)	Complied as per design standards
3	Keorapukur (22.46849, 88.33192)	45	36	Operational	Complied as per design standards
4	Baghajatin (22.48072, 88.39004)	15	14.25	Operational	Complied as per design standards
5	Hatisur (22.51866, 88.39340)	10	8	Operational	Complied as per design standards

2. Details of upcoming STPs

DETAILS OF STPS			Capacity (ML)	STATUS OF WORK	TIMELINE
STP UNDER CONSTRUCTION	UNDER KEIIP	Near WBSETCL, Joka (22.4496, 88.2982)	45	Work in progress	January, 2025
		At Bank Plot, M.G Road (22.4583, 88.3130)	40	Work in progress	January, 2025
STP FOR WHICH	UNDER KEIIP	Rajpur, Sonarpur, Rania (22.4492, 88.3504)	23	Almost completed	September, 2024
	UNDER TP&DD	Bansdrani STP	11.6	KMC has floated the International Competitive Bidding of this work on 29.08.2023 in the e-Procurement System of Government of West Bengal vide Tender reference no. KMC/D.G.(TNP)/61/2023-2024. The bid has been opened on 15.01.2024 and it has been found that, three (3) nos. of bidder has participated on response to this tender. On basis of the submitted bids, KMC has examined the technical bid and as per observation of the Bid Evaluation Committee, the Final Revised copy of Technical Bid Evaluation Report (TBER) has been	36 months from the date of issuance of work order.
		STP Near Golf Garden, Sukhapukur (22.49851, 88.35096)	3.5		
		Birji Road STP near Sahid Khudiram Metro (22.46576, 88.38884)	10.0		

				submitted to World Bank and NMCG through WB-SPMG on for further direction in this regard and permission to open the Financial Bid.	
		New Garden Reach STP	65.0	<p>The AA&ES for the project approved in the 44th EC Meeting held on 17/08/2022, Agenda Item No. 44.18.</p> <p>Estimated amount of Rs 289.02 Crores (including cost of O & M for 15 years -Rs 149.11 Crores) under HAM mode.</p> <p>Tendering Completed. Letter of Award (LoA) issued. Formal WO to be issued in due course.</p> <p>The Concession Agreement has been signed on dated 15.03.2024 between NMCG, KMC and the Concessionaire i.e. Ms GR Sewage Treatment Plant Limited formed by the successful agency M/s Traders & Engineers Pvt. Ltd. M/s Fichtner Consulting Engineers India Pvt. Ltd. has also been engaged as Project Engineer by NMCG, Govt. of India. Further, IIT Kharagpur has been engaged as proof checker for this instant HAM project. At site, presently the mobilization of man-</p>	24 months from the date of issuance of work order.

				power, materials and machineries have been engaged by the Agency. Soil testing work is completed and load testing on test pile is in progress. Accordingly, the basic engineering package, design and drawings have been submitted and under review by the appointed Project Engineer.	
PROPOSED STPS	UNDER KEIIP	Proposed STP for Borough-XII[Wd- 108, 109(part),110]	70	To be finalized based on implementation of future loan or from own resources of KMC	Not yet finalized.
	UNDER MWWP	STP Near L.S 10 (22.51841, 88.32479)	16	DPR submitted to NMCG and accepted. AA&ES not yet issued.	52 months from the date of issuance of work order.
		STP Near Surinaam Ghat, Dhankheti Nikashi (22.55041, 88.29222)	25		
		STP Near Bhanga Khal, Gardenreach area (22.54118, 88.25155)	35		
UNDER TP&DD	Additional capacity at existing Keorapukur STP	5.0	AA&ES approved in the 45th EC Meeting held on 30/09/2022, Agenda Item No. 45.3. “DPR for Rehabilitation of existing 50 MLD STP at Keorapukur and other allied works at Kolkata, West Bengal” EC approved the proposal at an estimated amount of Rs 67.06 Cr. (including	24 months from the date of issuance of work order.	

				<p>cost of O & M for 15 years – Rs 38.99 Cr.) under DBOT mode. 1st time Tendering done. Tender Publish date: 28/03/2023, Bid opening extended up to date: 14/09/2023. Since, after opening of technical bid, it has been found that, Single Bidder has participated in the said tender, NMCG has directed to go for 2nd time e-tender. After incorporating the observation points as obtained during 2nd time pre-tender meeting, the revised DPR of Keorapukur STP has been submitted to WBSPMG via. Official mail dated- 30.05.24 & the same has been forwarded to Director General of NMCG by Program Director of WBSPMG vide memo no.- 5792-NGRBA/SPMG/DPR-178/2015(P-I)/2019 Dt.-03.06.24. for necessary approval and getting revised AE&FS for the same.</p>	
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DETAILS OF STPS			Capacity (ML)	STATUS OF WORK	TIMELINE
STP UNDER CONSTRUCTION	UNDER KEIIP	Near WBSETCL, Joka(22.4496,88.2982)	45	Work in progress	January,2025
		At Bank Plot,M.G Road (22.4583,88.3130)	40	Work in progress	January,2025
STP FOR WHICH	UNDER KEIIP	Rajpur, Sonarpur,Rania (22.4492,88.3504)	23	Almost completed	September, 2024
	UNDER TP&DD	Bansdroni STP	11.6	KMC has floated the International Competitive Bidding of this work on 29.08.2023 in the e-Procurement System of Government of West Bengal vide Tender reference no. KMC/D.G.(TNP)/61/2023-2024. The bid has been opened on 15.01.2024 and it has been found that, three (3) nos. of bidder has participated on response to this tender. On basis of the submitted bids, KMC has examined the technical bid and as per observation of the Bid Evaluation Committee, the Final Revised copy of Technical Bid Evaluation Report (TBER) has been submitted to World Bank and NMCG through WB-SPMG on	36 months from the date of issuance of work order.
		STP Near Golf Garden, Sukhapukur (22.49851, 88.35096)	3.5		
		Birji Road STP near Sahid Khudiram Metro (22.46576, 88.38884)	10.0		

				for further direction in this regard and permission to open the Financial Bid.	
		New Garden Reach STP	65.0	<p>The AA&ES for the project approved in the 44th EC Meeting held on 17/08/2022, Agenda Item No. 44.18.</p> <p>Estimated amount of Rs 289.02 Crores (including cost of O & M for 15 years -Rs 149.11 Crores) under HAM mode.</p> <p>Tendering Completed. Letter of Award (LoA) issued. Formal WO to be issued in due course.</p> <p>The Concession Agreement has been signed on dated 15.03.2024 between NMCG, KMC and the Concessionaire i.e. Ms GR Sewage Treatment Plant Limited formed by the successful agency M/s Traders & Engineers Pvt. Ltd. M/s Fichtner Consulting Engineers India Pvt. Ltd. has also been engaged as Project Engineer by NMCG, Govt. of India. Further, IIT Kharagpur has been engaged as proof checker for this instant HAM project. At site, presently the mobilization of man-power, materials and machineries have been engaged by the</p>	24 months from the date of issuance of work order.

				Agency. Soil testing work is completed and load testing on test pile is in progress. Accordingly, the basic engineering package, design and drawings have been submitted and under review by the appointed Project Engineer.	
PROPOSED STPS	UNDER KEIIP	Proposed STP for Borough-XII [Wd- 108, 109(part), 110]	70	To be finalized based on implementation of future loan or from own resources of KMC	Not yet finalized.
	UNDER MWWP	STP Near L.S 10 (22.51841, 88.32479)	16	DPR submitted to NMCG and accepted. AA&ES not yet issued.	52 months from the date of issuance of work order.
		STP Near Surinaam Ghat, Dhankheti Nikashi (22.55041, 88.29222)	25		
		STP Near Bhangra Khal, Gardenreach area (22.54118, 88.25155)	35		
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				<p>1st time Tendering done. Tender Publish date: 28/03/2023, Bid opening extended up to date: 14/09/2023. Since, after opening of technical bid, it has been found that, Single Bidder has participated in the said tender, NMCG has directed to go for 2nd time e-tender. After incorporating the observation points as obtained during 2nd time pre-tender meeting, the revised DPR of Keorapukur STP has been submitted to WBSPMG via. Official mail dated- 30.05.24 & the same has been forwarded to Director General of NMCG by Program Director of WBSPMG vide memo no.- 5792-NGRBA/SPMG/DPR-178/2015(P-I)/2019 Dt.-03.06.24. for necessary approval and getting revised AE&FS for the same.</p>	
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1.10. Industrial waste water management

a. Current Status related to Industrial Waste Water Management

Number of Red, Orange, Green and White industries in the District	
No of Industries discharging wastewater	

Total Quantity of industrial wastewater generated	
Quantity of treated industrial wastewater discharged into Nalas / Rivers	
Common Effluent Treatment Facilities	
No of Industries meeting Standards	
No of Industries not meeting discharge Standards	

b. Identification of gaps and action plan for industrial waste water:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
			WBPCB	

1.11. Mining Activity Management plan

It is not applicable for Kolkata

1.13. Noise Pollution Management plan

a. Current Status related to Noise Pollution Management

Details of Data Requirement	Measurable Outcome
85 Sound Level Meters with calibrators have been provided to Kolkata Police authorities by WBPCB.	Kolkata Police is now equipped to measure noise.
1 set of Noise Limiter has been distributed to each of the Police Stations within Kolkata district.	Kolkata Police is now equipped to measure noise.

b. Identification of gaps and action plan:

Sl. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Installation of ambient noise monitoring stations in Kolkata	Eight (08) nos. Of Real Time Ambient Noise monitoring stations are being operated in Kolkata city with CPCB collaboration. More Fifteen (15) nos. of Noise Monitoring Stations have been set up by WBPCB only. Total Twenty three	WBPCB	

		(23) nos. of Noise Monitoring Stations exist in Kolkata.		
2.	Complaint redressal system of WBPCB ONLY.	<p>WBPCB has enabled the general public to register their grievances in a hassle free manner utilizing the varied modes of communication available today {through WBPCB app called “Paribesh”, Social Media (facebook & twitter), Physical Letters, E- mail, helpline etc}.</p> <p>The Public Grievance Cell of the Board is functioning since 1994 to address complaints against environmental problems and to minimize the same.</p> <p>Public hearing is a quasi- judicial method adopted by the West Bengal Pollution Control Board (WBPCB) for resolving the above stated environmental complaints. The hearing authority is composed of are tired Judicial Magistrate and other legal and technical officers of the Board. After careful consideration of the representations from both the sides, necessary directions are issued. If the directions are complied with Within a time schedule, the case is disposed off. Otherwise, legal actions are taken against the errant unit during subsequent hearings. In the ultimate case, closure order is issued until the unit adopts an adequate precautionary arrangement for control of pollution. In case the complaint is found to be beyond the legal jurisdiction of the Board, necessary suggestion letter or letter of direction is immediately sent to the concerned authorities.</p>		
3.	Training	Training is provided to the police department by WBPCB.		

