

# DISTRICT ADMINISTRATION , NALBARI.



# DISTRICT ENVIRONMENT PLAN.

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FOR NALBARI DISTRICT, 2023.

15/9/2023

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## INTRODUCTION

Hon'ble National Green Tribunal in O.A. No.360/2018 dated 26/09/2019 has ordered regarding constitution of District Committee (as a part of District Planning Committee under Article 243 ZD) under Articles 243 G, 243 W, 243 ZD read with Schedules 11 and 12 and Rule 15 of the Solid Waste Management Rules, 2016.

In the above said order, it is stated that among others: -

***'Chief Secretaries may personally monitor compliance of environmental norms (including BMW Rules) with the District Magistrate once every month. The District Magistrates may conduct such monitoring twice every month. We find it necessary to add that in view of Constitutional provisions under Articles 243 G, 243 W, 243 ZD read with Schedules 11 and 12 and Rule 15 of the Solid Waste Management Rules, 2016 it is necessary to have a District Environment Plan to be operated by a District committee (as a part of District Planning Committee under Article 243 ZD)***

In this regard, Special Secretary, Forest, Environment & Climate Change, Govt. of Assam vide memo No-FRM-184/2019/8 dtd.17/10/2019 instructed the Deputy Commissioners to prepare District Environmental Plan by constituting District Environment Committee (as a part of District Planning Committee ) with representatives from Panchayats, Local Bodies, Regional Officers, State PCB and a suitable officer representing the administration which may in turn be chaired and monitored by the District Magistrate/ Deputy Commissioner.

As per the directions, District Environment Committee in respect of Nalbari district was formed to evolve and execute District Environment Plan in the Nalbari District. (The District Environment Committee is attached as **Annexure- I** )

This Environment plan has been prepared in line with the model District Environment Plan (DEP) of CPCB and covers following thematic areas:

1. Waste Management Plan
  - Solid Waste Management Plan
  - Plastic Waste Management
  - C&D Waste Management
  - Biomedical Waste Management
  - Hazardous Waste Management
  - E-Waste Waste Management
2. Water Quality Management Plan
3. Domestic Sewage Management Plan
4. Industrial Wastewater Management Plan
5. Air Quality Management Plan
6. Mining Activity Management plan
7. Noise Pollution Management Plan

## **A Brief Profile of the District:**

Nalbari is an administrative district in the state of Assam. The district headquarter is located at Nalbari. The north and west side of the district is bounded by Baksa and Barpeta districts respectively. The southern and eastern side of the district is bounded by Kamrup district. The entire area of the district is situated at the plains of the Brahmaputra Valley. The district Head Quarter is situated approximately 73 KM away from the state Capital, Dispur.

## **History:**

Nalbari was declared a Sub division of undivided Kamrup District in 1967. The district was created on 14<sup>th</sup> August 1985 being split from Kamrup district. The size of the district got reduced upon the formation of Baksa district on 1<sup>st</sup> June 2004 as some parts of the northern side of the district included in the newly formed Baksa district.

## **Geography:**

At present Nalbari district occupies an area of 2,257 Square Kilometre (871Sq.mi). The latitude of Nalbari District is 26<sup>o</sup> North and 27<sup>o</sup> North and the longitude is 91<sup>o</sup> East and 97<sup>o</sup> East. The tributaries of the Brahmaputra, the Nona, Buradia, Pagaldia, Borolia and Tihu, which originates in the foothills of the Himalayan Range are wild in nature and make an enormous contributions to the agrarian economy of the district.

## **Climate:**

The district has a sub-tropical climate with semi dry hot summer and cold winter. During summer, generally during the months from May to August, heavy rainfall occurs for which the district experiences flood. The District experiences annual (average) rainfall of 1500 mm and its humidity hovers around 80%.

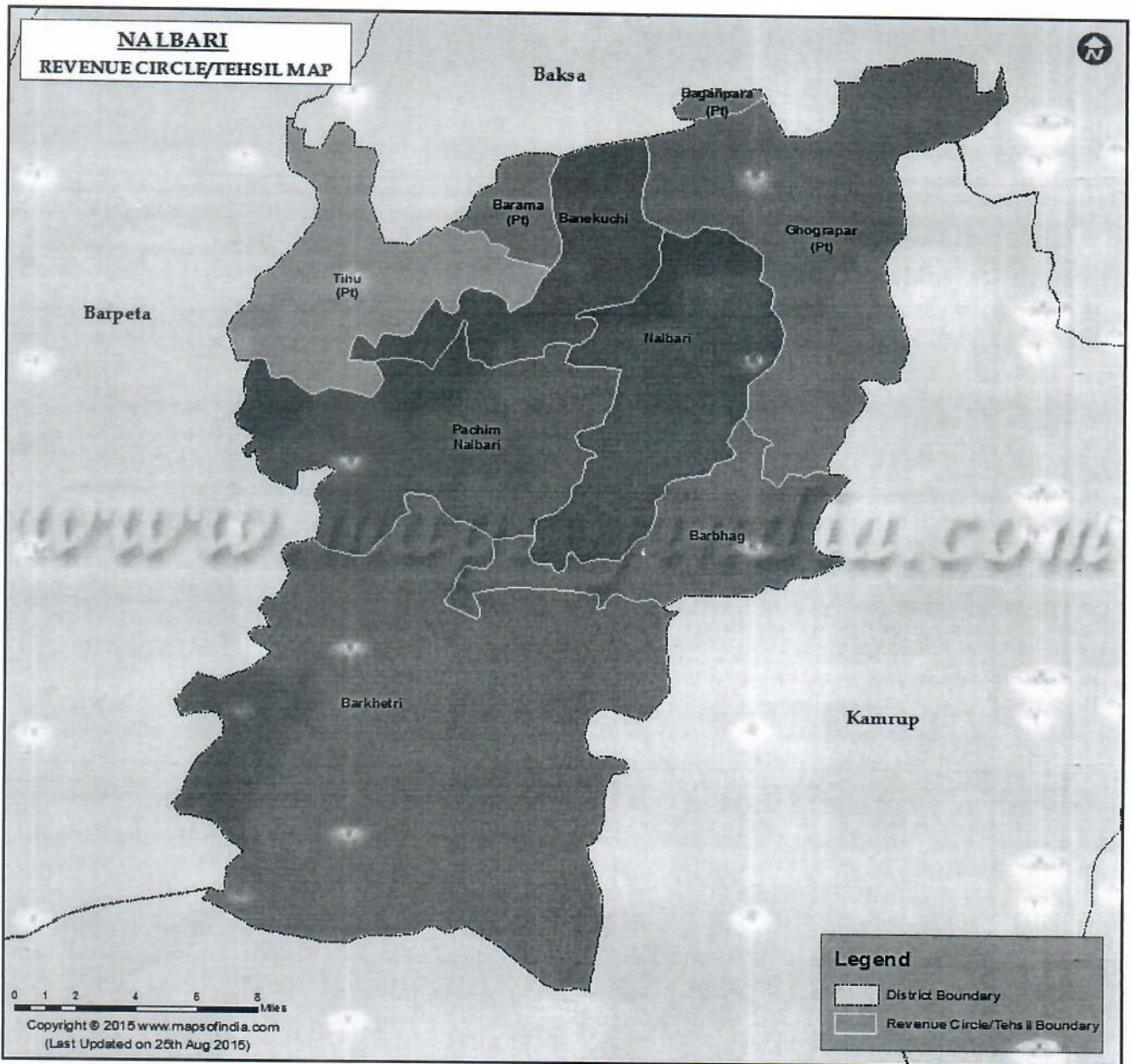
The soil condition of the district is a heterogeneous one. The soil of the northern part of the district is clayey and loamy whereas the middle part is loamy and sandy. The Soil of the southern part of the district is composed of sandy soil.

## **Demography:**

According to the 2011 Census the population of Nalbari district is 771,639. This gives the district a ranking of 488<sup>th</sup> in India (out of a total of 640 ). The district has a population density of 763 inhabitants per Square Kilometre (1,980/Sq Km). Its population growth rate over the decade 2001-2011 was 11.74%. Nalbari has a sex ratio of 945 females for every 1000 males and a literacy rate of 79.89%. Scheduled Castes and Scheduled Tribes made up 7.80% and 3.03% of the population respectively.

## **Administrative set up:**

The Deputy Commissioner is the head of the district administration. The district has only one Sub-Division namely Nalbari (Sadar). The district has 7 (Seven) Revenue Circles and 7 (Seven) Development Blocks. In Nalbari district there are 2 (two) Municipal Boards i.e. Nalbari Municipal Board and Tihu Municipal Board. There are 65 nos. of Gaon Panchayats and 7 nos. of Zila Parishad Constituencies. There are 3 (three) Legislative Assembly Constituencies in the district.



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

## (i) Solid Waste Management:

### a) Current Status related to Solid Waste Management:

Urban Local Bodies	No. of Wards	No. of Households	Population	Solid Waste generated per day
Nalbari Municipal Board	17	13586	55025	10 MT/day. ( approx.)
Tihu Municipal Board	10	2671	17534	3 MT/day.

Local Bodies	No. of Gaon Panchayats (GP)	No. of Households	Population	Solid Waste generated per day
Nalbari Zilla Parishad	65	177990	739648 ( As per census 2011)	NA

### b) Identification of gaps and Action Plan:

Sl. No	Action points for villages/Blocks/town Municipalities/ City Corporations	Identification of gaps	Action Plan	Responsible Agencies	Timeline for completion of action plan
1.	<b>Segregation</b>	<p><u>For NMB:-</u></p> <p>Whether segregation is practiced in all the wards</p> <p><u>For TMB:-</u></p> <p>6 wards</p>	<p><u>For NMB:-</u></p> <ul style="list-style-type: none"> <li>❖ 100% door to door collection is going on in all the wards under Nalbari M.B.</li> <li>❖ Public awareness via meetings mikings, leaflets distribution was done.</li> </ul> <p><u>For TMB:-</u></p> <p>Waste Segregation is going on in 4 wards. Promoted waste segregation at source by providing separate bins for dry and wet waste. Awareness activities are going on in rest of the wards.</p>	Nalbari & Tihu Municipal Board	<p><u>For NMB:-</u></p> <ul style="list-style-type: none"> <li>❖ Door to door collection is going on in all 17 municipal wards.</li> <li>❖ 100 % source segregation will be completed within Jan/2024</li> </ul> <p><u>For TMB:-</u></p> <p>Rest of wards will be covered by Jan/2024.</p>
2.	<b>Sweeping</b>				
(i)	Manual Sweeping		<p><u>For NMB:-</u></p> <ul style="list-style-type: none"> <li>❖ Manual sweeping is practised in all the commercial areas of Nalbari MB. Manual sweeping is covered in 10 wards under Nalbari MB.</li> <li>❖ Hand gloves and face mask were provided to all the sweeping labourers.</li> </ul> <p><u>For TMB:-</u></p> <p>Yes all wards.</p>	Nalbari & Tihu Municipal Board	Dec/23.
(ii)	Mechanical Roads Sweeping & Collection	<p><u>For TMB:-</u></p> <p>Machinery not available.</p>	<p><u>For NMB:-</u></p> <ul style="list-style-type: none"> <li>❖ Mechanical road sweeping will be done covering all the wards under Nalbari MB.</li> <li>❖ Mechanical sweeping vehicle will be procured from NCAP.</li> </ul>	Nalbari & Tihu Municipal Board	Jan/24

  
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			<u>For TMB:-</u>		
3.	<b>Waste Collection</b>		NA		
(i)	100% Collection of Solid Waste	<u>For TMB:-</u> wards.	<p><u>For NMB:-</u></p> <ul style="list-style-type: none"> <li>❖ 100% door to door collection is going on in all the wards under Nalbari M.B.</li> </ul> <p><u>For TMB:-</u></p> <p>Door to door garbage collection is going on in 7 wards. Awareness is going on in rest of the wards.</p>	Nalbari & Tihu Municipal Board	<p><u>For NMB:-</u></p> <p>Ongoing.</p> <p><u>For TMB:-</u></p> <p>Rest of wards will be done in Jan/2024.</p>
(ii)	Arrangement for door to door collection		<p><u>For NMB:-</u></p> <ul style="list-style-type: none"> <li>❖ Door to door collection is going on in all the wards under Nalbari M.B by NESAHR NGO engaged from Nalbari MB.</li> </ul> <p><u>For TMB:-</u></p> <p>TMB engaged extra labours for door to door collection. One auto tipper with two separate chambers added for door to door garbage collection for TMB.</p> <p><u>For Nalbari Zilla Parishad.</u></p> <p>Under Process.</p>	Nalbari & Tihu M.B./ Zilla Parishad, Nalbari	Ongoing
(iii)	Waste Collection trolleys with separate compartments		<p>For NMB:</p> <ul style="list-style-type: none"> <li>❖ 17 nos of segregated collection tricycle available under Nalbari MB.</li> <li>❖ 3 nos of segregated collection e-rickshaw available under Nalbari MB</li> </ul> <p><u>For TMB:-</u></p> <p>Yes, available.</p> <p><u>For Nalbari Zilla Parishad.</u></p> <p>130 nos Tri-cycle and 7 nos battery rickshaw is available under Nalbari Zilla Parishad.</p>	Nalbari & Tihu MB Zilla Parishad, Nalbari	.....
(iv)	Mini Collection Trucks with separate compartment		<p><u>For NMB:</u></p> <ul style="list-style-type: none"> <li>❖ 4 nos of mini collection trucks with separate compartments available for Nalbari MB.</li> <li>❖ Another 13 nos of Mini collection trucks will be procured subject to the financial allocation made by the Govt. In this regard for Nalbari MB.</li> </ul> <p><u>For TMB:</u></p> <ul style="list-style-type: none"> <li>❖ Yes, 2 nos. of mini collection trucks with separate compartments available for Tihu MB.</li> </ul>	Nalbari & Tihu Municipal Board/ Zilla Parishad, Nalbari	March/24
(v)	Waste Deposition Centres (for domestic hazardous waste)		<p><u>For NMB:</u></p> <ul style="list-style-type: none"> <li>❖ Waste deposition centres to be created for deposition of domestic hazardous risk.</li> </ul> <p><u>For TMB:-</u></p> <p>No waste deposition centres for domestic hazardous waste.</p>	Nalbari & Tihu Municipal Board/ Zilla Parishad, Nalbari	NA
4.	<b>Waste Transport</b>				
(i)	Review existing infrastructure for waste transport		<p><u>For NMB:-</u></p> <ul style="list-style-type: none"> <li>❖ 17 nos of segregated collection tri-cycle available under Nalbari MB.</li> <li>❖ 3 nos of segregated collection e-rickshaw available under Nalbari MB.</li> <li>❖ 4 nos of mini collection trucks with</li> </ul>	Nalbari & Tihu Municipal Board	

  
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			separate compartments available in Nalbari MB. <b>For TMB:-</b> Collection and transport to dumping ground by Tipper.		
(ii)	Bulk Waste Trucks		<b>For NMB:-</b> ❖ 2 nos of bulk waste collection trucks available in Nalbari MB. <b>For TMB:-</b> NA	Nalbari & Tihu Municipal Board/	
(iii)	Waste Transfer Points		<b>For NMB:-</b> ❖ 8 bighas of land available for solid waste management sited for Nalbari MB. ❖ Construction of boundary wall completed in the site. ❖ Preparation of DPR completed for sanitary landfill, MRF, Vermicomposting plant and submitted to the State Mission Directorate of SBM (U). <b>For TMB:-</b> NA <b>For Nalbari Zilla Parishad.</b> Work under process.	Nalbari & Tihu M.B./ Zilla Parishad, Nalbari	
<b>5.</b>	<b>Waste Treatment and Disposal</b>				
(i)	Wet Waste Management : On site composting by bulk waste generators		<b>For NMB:-</b> ❖ Central compost pit is constructed in Malikuchi ward no 2 Nalbari MB. <b>For TMB:-</b> No bulk waste Generator.	Nalbari & Tihu Municipal Board	
(ii)	Wet Waste Management : Facility for central Bio methanation/ Compositing of the wet waste		<b>For NMB:-</b> ❖ 30 nos of household vermicomposting plant is operational in Nalbari MB. <b>For TMB:-</b> NA	Nalbari & Tihu Municipal Board/ Zilla Parishad, Nalbari	
(iii)	Dry Waste Management : Material Recovery for dry-waste fraction		<b>For NMB:-</b> ❖ One MRF is available in Nalbari Municipal Office campus. ❖ Central MRF will be constructed in the solid waste management site. Tender Process is completed. <b>For TMB:-</b> Yes, One MRF centre for dry waste.	Nalbari & Tihu Municipal Board/ Zilla Parishad, Nalbari	
(iv)	Disposal of inert and non-recyclable wastes : Sanitary landfill		<b>For NMB:-</b> ❖ Preparation of DPR completed for sanitary landfill and submitted to the State Mission Directorate of SBM (U). <b>For TMB:-</b> No Sanitary landfill.	Nalbari & Tihu Municipal Board/	
(v)	Remediation of Historic/legacy dumpsite		<b>For NMB:-</b> ❖ Preparation of DPR completed and submitted to the Directorate of Municipal Administration, Assam for	Nalbari & Tihu Municipal Board	

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			remediation of Historic/ legacy dumpsite. <b>For TMB:-</b> No legacy waste.		
V (vi)	Involvement of NGOs		<b>For NMB:-</b> ❖ Door to Door collection is going on in all he wards under Nalbari MB by NESHAR NGO Engaged from NMB. <b>For TMB:-</b> No	Nalbari & Tihu Municipal Board/ Zilla Parishad, Nalbari	Ongoing.
(vii)	EPR of producers : Linkage with producers/ Brand owners		<b>For NMB:-</b> ❖ To prepare action plan for linkage of all producers/brand owners or their PROs for collection of plastic waste. <b>For TMB:-</b> NA	Nalbari & Tihu Municipal Board	Not yet done
(viii)	Authorization of Waste pickers		<b>For NMB:-</b> ❖ Waste pickers to be authorized. <b>For TMB:-</b> 2 informal waste pickers identified for TMB.	Nalbari & Tihu Municipal Board	December/2023
(ix)	Preparation of own by-laws to comply with SWM Rules 2016		<b>For NMB:-</b> ❖ SWM Rules 2016 Bye-laws are submitted for Nalbari MB. <b>For TMB:-</b> Yes, already prepared.	Nalbari & Tihu Municipal Board	Completed.

## (II) Plastic Waste Management.

### a) Current Status related to Plastic Waste Management:

Urban Local Bodies	
Nalbari Municipal Board	0.5 TPD
Tihu Municipal Board	Plastic waste generated 0.5 TPD

### b) Identification of gaps and Action Plan:

Sl. No	Action points for Gaon Panchayats /Blocks/Municipalities/Corporations	Identification of gaps	Action Plan	Responsible Agencies	Target time for compliance
1.	Door to door collection of dry waste including PW		<b>For NMB:-</b> ❖ Door to door collection of dry waste including PW going on in Nalbari MB. ❖ Informal waste pickers will be registered under Nalbari MB. <b>For TMB:-</b> Yes, once collected the dry plastic waste is transported to a material Recovery Facility (MRF)	Nalbari & Tihu Municipal Board	December/2023
2.	Facilitate organised collection of PW at waste transfer		<b>For NMB:-</b> ❖ 3 nos of plastic banks available in Nalbari MB. ❖ One MRF is available in Nalbari Municipal Office campus. ❖ Central MRF will be constructed in the	Nalbari & Tihu Municipal Board	December/2023

  
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	point of Material Recovery facility		<p>Solid Waste management site. Tender process is completed.</p> <p>❖ Informal waste pickers will be registered under Nalbari MB.</p> <p><b>For TMB:-</b> Yes</p>		
3	PW collection Centres		<p><b>For NMB:-</b> ❖ One MRF and 3 plastic banks are available under Nalbari MB for plastic Waste Collection.</p> <p><b>For TMB:-</b> Yes, one MRF and one RRR centre in TMB.</p>	Nalbari & Tihu Municipal Board/	
4	Awareness and Education Programme implementation	<p><b>For IS, Nib.</b> The awareness regarding plastic pollution is yet to be up-to-the marked. So mass awareness is needed in this regards.</p>	<p><b>For NMB:-</b> ❖ Awareness meetings, mikings, placing of hoardings and banners, distribution of leaflets, street plays were performed.</p> <p><b>For TMB:-</b> Yes, awareness activities going on in schools.</p> <p><b>For Nalbari Zilla Parishad.</b> Yes</p> <p><b>For IS, Nib.</b> Issued necessary instruction to the school for arranging awareness program vide office letter no. IS/NDC/Misc/For/2023/5156-A Dtd: 11.09.2023.</p>	Nalbari & Tihu Municipal Board/ Zilla Parishad, Nalbari/ Inspector of Schools, Nalbari	
5	Access to Plastic Waste Disposal Facilities		<p><b>For NMB:-</b> ❖ Nalbari district has presently no access to PW recycling or disposal facilities.</p> <p><b>For TMB:-</b> NA</p>	Nalbari & Tihu Municipal Board	

### (iii) C & D Waste Management

#### a) Current Status related to C&D Waste Management:

<u>Details of Date Requirement</u>	<u>Present Status</u>	
	<u>For NMB</u>	<u>For TMB</u>
<u>Total C&amp;D waste generation in MT per day (As per data from MB)</u>	0.7	0.012 TPD
<u>Does the district have access to C&amp;D waste recycling facility?</u>	No	NA

#### b) Identification of gaps and Action Plan:

Sl. No	Action points for Blocks/Municipalities/Corporations	Identification of gaps	Action Plan	Responsible Agencies	Target time for compliance
1.	Arrangement for separate collection of C&D waste to C&D waste Disposition point		<p>❖ No separate collection of C &amp; D waste Disposition point available in Nalbari MB.</p>	Nalbari & Tihu Municipal Board	March/2024

  
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2	Whether local authority have fixed user fee on C&D Waste and in traduced permission system for bulk waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month?		❖ NA NA	<u>For NMB:-</u> <u>For TMB:-</u>	Nalbari & Tihu Municipal Board	March/2024
3	C&D recycling facility		❖ Not available.	<u>For NMB:-</u> <u>For TMB:-</u> No recycling facility. Collected C & D waste is put it on the low lying areas and a lot of people use them in their own residence.	Nalbari & Tihu Municipal Board	March/2024
4	Usage of recycled C&D waste in non-structural concrete, paving blocks. Lower layers of road pavements, colony and rural roads		❖ NA NA	<u>For NMB:-</u> <u>For TMB:-</u>	Nalbari & Tihu Municipal Board	March/2024
5	ICE on C& D waste management		❖ Awareness meetings were conducted.	<u>For NMB:-</u> <u>For TMB:-</u> Yes, Awareness activities is going on.	Nalbari & Tihu Municipal Board	Dec/2023

#### (iv) Biomedical Waste Management

##### (a) Current Status related to BW Waste Management:

Inventory of BMW in the district	Quantity
Total no. of bedded Healthcare Facilities	54
Total no. of non-bedded HCF	7
No. of HCFs authorised by SPCPs/PCCs	54
No. of common Biomedical Waste Treatment and Disposal Facilities (CBWTFs)	54
Capacity of CBWTFs	13
No. of Deep burials for BMW if any	No

  
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## b) Identification of gaps and Action Plan:

Sl. No	Action Points	Identification Gaps	Action Plan	Responsible Agencies	Timeline for completion of action plan
1.	Inventory and identification of Healthcare Facilities	Transportation from SC level is poor.	Action Plan for completing/updating of inventory and authorization of HCFs by SPCBs.	Jt. DHS, Nalbari/PCBA	March/24
2	Adequacy of facilities to treat biomedical waste	No adequate CBWTF is available in the district for disposal of BMW.	1) To set up CBWTF or providing access to CBWTF with 75 km from places of waste generation. 2) To identify site for setting up such facility. 3) To prepare action plan for management of BMW through captive facilities.	Jt. DHS, Nalbari/PCBA	March/24
3	Tracking of Biomedical Waste	Check whether bar code system is implemented by all HCFs and CBWTFs?	To implement bar code system by all HCFs and CBWTFs in the district.	Jt. DHS, Nalbari	March/24
4	Awareness and education of healthcare staff	Training has been organized for all stakeholders in a regular manner.	To organize awareness programs and training to healthcare staff and MB officials.	Jt. DHS, Nalbari	March/24
5	Adequacy of Funds	No fund is allocated to the Govt. Health care facilities for biomedical waste management by State Govt.	To pursue Health & Family Welfare Department, Govt. Of Assam, for adequate funds to Government health care facilities for bio-medical waste.	Jt. DHS, Nalbari	March/24
6	Compliance to rules by HCFs and CBWTFs	Partial	To prepare action Plan to monitor compliance of HCFs and CBWTFs through SPCBs/PCCs.	Jt. DHS, Nalbari	March/24
7	District Level Monitoring Committee	District Level Monitoring Committee has been constituted and meetings are being organized.	DLMC is existing.	Jt. DHS, Nalbari	March/24
8	Wastewater Treatment	HCFs are required to install ETPs for waste water generated	To prepare action plan for installation of ETPs by HCFs where applicable.	Jt. DHS, Nalbari	March/24

(v) Hazardous Waste Management

## a) Current Status related to Hazardous Waste Management:

Details of Data Requirement		Present Status
No. of Industries generating HW	3 Nos.	
	1) M/S Berger Paints India Ltd ( British Paint Division ) Nathkuchi, Tihu	ETP: Waste water is discharged in ETP and after treatment used for gardening and keep in underground tank for firefighting. Solid waste is being kept in separate room safety in Plastic Barracks with proper labelling. Waste vendor is to be authorized by PCB for disposal. Hazardous generation and accumulation in different categories available with plant which is issued by PCB.
	2) M/S Kamrup Aluminium Works, Industrial Estate, Nalbari.	a) For waste water the unit is using effluent treatment plant for cleaning the same. b) For smoke the unit is using scrubber. c) For solid waste: Sludge from Waste Water Treatment (ETP) and Sludge from Scrubber is stored in separate dedicated store room with marking as HW on the store room gate. Due to absence of Common Hazardous Waste Treatment, Storage & Disposal Facility (TSDF) in Assam, the hazardous waste could not be transported to TSDF operator for landfill/incinerate.

  
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	3) Ahinsha Chemicals Ltd, Vill:-Pub Sariahtoli, Milanpur, Nalbari.	a) Waste Water is treated in ETP and treated water used for plant & floor wash works as and when required. Waste water treatment plant also called Effluent that can be safely discharged in to the environment or that is usable for a certain reuse purpose like cultivation, gardening etc. b) Solid decaffeinated Tea Waste is decomposed in open ground/ land to get converted to manure as per guidance of Tocklai Research Centre and supply to different tea gardens as organic manure.
Quantity of HW in the district	1.0616 MT/Annum	
(i) Quantity of incinerable HW	Nil	
(ii) Quantity of land fallible HW		
(iii) Quantity of Recyclable / Utilizable HW	0.0816	
No. of Captive/ Common TSDF	There is no TSDF in Nalbari District.	
Contaminated sites or portable contaminated sites	Nil	

## b) Identification of gaps and Action Plan:

Sl. No	Action Points	Identification of Gaps	Action Plan	Responsible Agencies	Timeline for completion of action plan	Remarks
1	Regulation of Industries and facilities generating HW	Check whether all hazardous waste industries are identified and authorised SPCBs/PCCs.	SPCB/PCC should ensure that all hazardous waste industries are authorized and system of safe disposal is in place.	PCBA & GM DIC, NALBARI	One month.	GM, DIC will provide the list of industries. PCBA will identify the identity of the hazardous industries among them and should ensure that they comply with the pollution control norms.
2	Establishment of Collection Centres	Check district has collection centres for hazardous waste with linkage to common TSDF./Recyclers	Local authority should ensure that adequate number of collections centres should be established and are linked to Common TSDFs.	PCBA	One month.	Presently the 3 no. Of unit has treated hazardous waste water through ETP and solid hazardous wasted are stored in separate room with proper labelling. Since there is no TSDF in Nalbari district therefore, PCBA may submit an action plan for collection centre or nominate vendor for discharge of solid hazardous waste.
3	Training of Workers involved in	Identify facilities/ industries	Action plan to train the workers on safety aspects through	PCBA & GM DIC, NALBARI	15 days.	PCBA is technically sound and authorised

  
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	handling/recycling	engaged in recycling/ pre-processing/ disposal of hazardous waste in the district.	Department of Industries as per provisions under HOWM Rules, 2016			about various practices needed for handling/recycling/disposal of hazardous waste, hence PCBA will provide the training in association with GM, DICC.
4	Availability /Linkage with common TSDf or disposal facility	Check if the generators of HW have access to common TSDf in the state.	Action plan to ensure all generators are linked to TSDf/ Action Plan in case there is no TSDf in the District or state-in such case evaluate existing storage and captive disposal facilities through SPCBs/PCCs.	PCBA & GM DICC, NALBARI	1 month.	PCBA may submit action plan to set up one TSDf so that all solid hazardous waste generated by industries may be disposed to TSDf or nominate vendor for discharge of solid hazardous waste.
5	Contaminated Sites	Are there any cities where soils/sediments/ groundwater contaminated due to dumping of industrial waste.	Action plan for identification of probable contaminated site, incidents of HW dumping, responsible parties for contaminated site etc and to remediate contaminated sites.	PCBA & GM DICC, NALBARI	1 month.	PCBA may temporarily identify the contaminated sites.

## (vi) E- Waste Management

### a) Current Status related to E- Waste Management:

Details of Data Requirement	Present Status	
	Nalbari MB	Tihu MB
Inventory of E-Waste in MT/year	80 MT/Year ( approx.)	NA
Collection centers established by ULBs in the District	2 nos	No
Collection centers established by Producers or their PROs	0	No
No authorized E-Waste recyclers / Dismantler	0	No

### b) Identification of gaps and Action Plan:

Sl. No	Action Points	Identification of Gaps	Action Plan	Responsible Agencies	Timeline for completion of action plan
1	<u>Inventory / Generation of E-Waste / Bulk-waste generators</u>	<u>Check whether SPCB/PCC has completed inventory of E-Waste in the District. Inventory of bulk waste generators</u>	<u>Completion of inventory</u>	<u>Nalbari &amp; Tihu Municipal Board</u>	<u>For NMB:-</u> <u>For recycling e-waste authorized collection will be communicated.</u> <u>For TMB:-</u>
2	<u>E-Waste collection points</u>	<u>Availability of E-Waste collection points / call centres / kiosks in villages - Blocks / /towns / cities</u>	<u>Identification / registering E-Waste collection centre in association with Producers - their PROs or Recyclers</u>	<u>Nalbari &amp; Tihu Municipal Board</u>	<u>For NMB:-</u> <u>2 nos of Ewaste collection centres available in Nalbari MB.</u>
3	<u>Linkage among Stakeholders to channelize E-Waste</u>	<u>Check whether District administration has information on collection centres established by Producers / PROs?</u>	<u>Action plan to establish linkages between ULBs / Collection Centre of</u>	<u>Nalbari &amp; Tihu Municipal Board</u>	<u>For NMB:-</u> <u>Will be implemented</u>

  
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		<u>Administration should also identify authorized E-Waste recyclers in the district or in State to channelize E-waste collected in District.</u>	<u>Producers and PROs / SPCBs / Bulk waste generators / Recyclers / SPCBs / District Administration / Public</u>		
4	<u>Regulation of Illegal E-Waste recycling / dismantling</u>	<u>Prevalence of informal trading, dismantling, and recycling of E-waste is in District</u>	<u>Action plan in coordination with SPCBs/PCCs and District Administration to check this activity.</u>	<u>Nalbari &amp; Tihu Municipal Board</u>	<u>For NMB:- Will be implemented</u>
5	<u>Integration of informal sector</u>	<u>Whether mechanism exists for bringing informal sector into main stream in collection and recycling of E-Waste</u>	<u>Evolve mechanism by involving producers / PROs</u>	<u>Nalbari &amp; Tihu Municipal Board</u>	<u>For NMB:- Will be implemented</u>
6	<u>Awareness and Education</u>	<u>Are there any programs at district level for awareness about Ewaste management?</u>	<u>Plan special workshops and awareness campaigns through Producers / PROs</u>	<u>Nalbari &amp; Tihu Municipal Board</u>	<u>For NMB:- Yes, awareness meetings were conducted.</u>

### 3.0 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	For NMB:- 1
Number of manual monitoring States operated by SPCBs	For NMB:- 2
Name of towns / cities which are failing to comply with national ambient air quality stations	Nalbari Town.
No of air pollution industries	13 nos. ( Brick Industry)
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	<ul style="list-style-type: none"> <li>❖ Brick Klin-13 nos</li> <li>❖ Industrial Estate, Gopal Bazar-1 nos.</li> <li>❖ North East Mega Food Park, Tihu- 1 nos.</li> <li>❖ Industrial Infrastructure Development Centre, Nathkuchi-1 nos.</li> <li>❖ Industrial Estate, Nathkuchi-1 nos.</li> </ul>

#### b) Identification of gaps and action plan:

Sl. No	Action Points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan & Remarks.	Remarks
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. Regular monitoring carried out	PCBA & GM, DICC	30 days.	GM, DICC will submit a list of 13 nos of Brick Industries. PCBA will identify the industry among them which are not complying with pollution norms and action taken thereof.
2	Ambient Air Quality Data	The data of Ambient Air Quality monitoring stations are available in the boards as well as CPCB web site.	PCBA	2029	..... .....
3	Setting up of Continuous Air Quality Monitoring Station	CAAQM station is already installed The CAAQMS data on real time basis in the station will be displayed through Electronic Board and also be transmitted to CPCB server through which public could be able to access the real time data.	PCBA		
4	District Level	Regular monitoring.	PCBA		

  
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	Action Plan for Air Pollution				
5	Hotspots of air pollution in District		District Administration & NMB		
6	Awareness on Air Quality	Conducted by PCBA from time to time.	PCBA		

#### 4.0 Water Quality Management

##### 4.1 Water Quality Monitoring

##### a. Current Status related to Water Quality Management

Details of Data Requirement	Present Status
<u>Rivers</u>	The tributaries of the Brahmaputra e.g- Nona, Buradia, Pagaldia, Borolia and Tihu.
<u>Length of Coastline (if any)</u>	Nil
<u>Nalas/ Drains/Creeks meeting Rivers</u>	One drain.
<u>Lakes / Ponds</u>	Hatkholo Pukhuri Tinikonio Pukhuri Sonpur Rajohua Pukhuri Gandhi Park Pukhuri Gordon Pukhuri Japarkuchi Pukhuri ( 2nos) Kharjara Ashram Pukhuri (2 nos)
<u>Total Quantity of sewage from towns and cities in District</u>	7.83 MLD
<u>Quantity of industrial wastewater</u>	NA
<u>Percentage of untreated sewage</u>	NA
<u>Details of bore wells and number of permissions given for extraction of groundwater</u>	647 Nos. PWSS ( 271 Nos. under Nalbari PHE Division & 376 nos under Belsor PHE Div.)
<u>Groundwater polluted areas if any</u> Polluted river stretches if any	Name of River: Pagaldia. River stretch: The length of polluted stretch of Pagaldia river is approximately 4 km with an area of 16 sq.km. The stretch identified as polluted is from Balakuchi to Khurda Sankara. The area is covered by five villages namely:- 1. Namdonga Balakuchi. 2. Khudra Sankara. 3. Balilecha. 4. Sandha. 5. Terechia. IIT, Guwahati has prepared one DPR for "Treatment of Polluted Pagaldia River Under Nalbari Zilla Parishad for an amount of Rs 321.72.134.00

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

Sl. No	Action Points	Gaps & Action Plan		Responsible agency	Timeline for completion of action plan	Remarks
1	<u>Inventory of water bodies</u>	<u>An environmental monitoring cell shall maintain data of all water bodies (rivers / canals / natural drains / creeks / estuaries / groundwater / ponds / lakes / etc.) in district including its water quality</u>	NA	<u>Nalbari &amp; Tihu Municipal Board/ Zilla Parishad, Nalbari</u>		
2	<u>Quality of water bodies in the district</u>	<u>Check availability of data on water bodies. Create a district level monitoring cell for periodic monitoring of water bodies for specific parameters in</u>	Quality of water bodies are not tested in our laboratory. However, quality of ground water samples has been	<u>Nalbari &amp; Tihu Municipal Board/ Zilla</u>		There are 4 ( four) surface water based PWSS namely Paschim Dharmapur, PWSS,

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		<u>association with SPCBs. It is also necessary to disseminate information pertaining to water quality in the form of hoardings on river banks, official websites, etc</u>	checked monthly at District Level Laboratory, Nalbari and Sub-Divisional Level Laboratory, Belsor and reported in MIS.	<u>Parishad, Nalbari/ PHE, Nalbari</u>		Pub-Dharmapur PWSS, Uttar Dharmapur PWSS and Loharkatha PWSS under Belsor PHE Division. The water quality report of the 4 ( four) surface water based PWSS has been enclosed herewith.
3	<u>Hotspots of water contamination on</u>	<u>Check trends of water quality and identify hotspot of surface water and ground water. Establish a system or separate cell to monitor water quality. Implement action points for restoration of water quality in association with SPCBs and department of environment.</u>	The water sample of Khat Katra PWSS of Khat Katra village under 1 no. Khata G.P of Pub Nalbari Dev. Block fund Arsenic level beyond permissible limit at DLL Nalbari. The water sample has been sent to SRL for confirmatory test for arsenic.	<u>Nalbari &amp; Tihu Municipal Board/ Zilla Parishad, Nalbari/ PHE, Nalbari</u>		The matter has been informed to higher authority for necessary action.
4	<u>Protection of river / lake water front</u>	<u>Action plan should be prepared for control river side open defecation, dumping of Solid waste on river banks, for idol immersion etc</u>				
5	<u>Inventory of sources of water pollution</u>	<u>Check whether inventory of all sewage and wastewater discharge points into water bodies in the district. Action plan to complete inventory.</u>				
6	<u>Oil spill disaster management (for coastal districts)</u>	<u>Whether district oil spill crisis management group and District Oil Spill Disaster Contingency Plan has been created? If not, create District Oil Spill Crisis Management Group and District Oil Spill Disaster Contingency Plan for the district.</u>			Not related to Nalbari district.	
7	<u>Protection of flood plains</u>	<u>Check whether there is regulation for protection of flood plain encroachment? Action plan should be prepared for protection flood plain and prevention of encroachment.</u>	During flood season, temporary measures are adopted to prevent river bank/embankment erosion and after recession of flood, detail survey of eroded reach is carried out and accordingly Detailed Project Report is prepared and submitted to the higher authorities for necessary approval and following all formalities, works are taken up at those eroded reaches of embankments. Regarding encroachment of flood plain action will be taken after identification of encroachment in flood plain area and prevention of the same with the help of District Administration. Adequate cross drainage structures like bridges and culverts have been	Soil Conservation Department/ Water Resource / ULBs/Forest Department/ Tourism Department/ PWD Assam/ District Administration	Concerned Department take necessary action as per requirement	

			constructed for smooth passes of water avoiding any flood plain disturbance.			
8	<u>Rejuvenation of groundwater</u>	<u>Check availability of groundwater and if required prepare action plan to rejuvenate ground water in selected areas. Action plan should be prepared for Rain water harvesting</u>				
9	<u>Complaints redressal system</u>	<u>Check whether there is any complaint redressing system based on Mobile App / Online, is available? If not, a complaint redressing system based on Mobile App / Online should be available at district level</u>				

#### 4.2 Domestic Sewage

##### a) Current Status related to treatment of domestic sewage

<u>Details of Data Requirement</u>	<u>Present Status</u>
<u>No of Class-II towns and above [Nos]</u>	NA
<u>No of Class-I towns and above [Nos]</u>	NA
<u>No of Towns STPs installed [Nos]</u>	NA
<u>No of Towns needing STPs [Nos]</u>	NA
<u>No of ULBs having partial underground sewerage network [Nos]</u>	NA
<u>No of towns not having sewerage network [Nos]</u>	NA
<u>No of towns not having sewerage network [Nos]</u>	NA
<u>Total Quantity of Sewage generated in District from Class II cities and above [MLD]</u>	For NMB:-5.94 MLD For TMB:- 1.89 MLD
<u>Quantity of treated sewage flowing into Rivers (directly or indirectly) [MLD]</u>	NA
<u>Quantity of untreated or partially treated sewage (directly or indirectly) [MLD]</u>	NA
<u>Quantity of sewage flowing into lakes [MLD]</u>	NA

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

Sl. No	Action Points	Gaps & Action Plan	Responsible agency	Timeline for completion of action plan	Remarks
1	Sewage Treatment Plants (STPs)	Check whether existing capacity of STPs is adequate for treatment of sewage? If no, action plan for additional treatment capacity required should be prepared in association with ULBs / department of UD	Nalbari & Tihu Municipal Board/ Zilla Parishad, Nalbari/	Dec/24	For NMB: For STP preparation of DPR completed for Nalbari MB.
2	Underground sewerage network	Check available sewerage network and prepare Action plan for laying of sewerage network in town and cities. The project may be executed through ULBs and Department of UD	NA	NA	For NMB:- STP preparation of DPR completed for Nalbari MB

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## 5.0 Industrial wastewater management

### a) Current Status related to Industrial Wastewater Management:

Number of Red, Orange, Green and White industries in the District	Red-2 nos Orange-20 nos. Green-334 nos. White -1794 nos. ( Tentative)
No of Industries discharging wastewater	39 nos (as per report of PCBA)
Total Quantity of industrial wastewater generated	180 KLD (APPROX) (as per report of PCBA)
Quantity of treated industrial wastewater discharged into Nalas / Rivers	180 KLD (APPROX) (as per report of PCBA)
Common Effluent Treatment Facilities	1 NOS (as per report of PCBA)
No of Industries meeting Standards	39 (as per report of PCBA)
No of Industries not meeting discharge Standards	As per records, no discrepancies found in maintaining the discharge parameters. (as per report of PCBA)

### b) Identification of gaps and action plan for treatment of Industrial waste water:

Sl. No	Action Points	Gaps & Action Plan	Responsible agency	Timeline for completion of action plan	Remarks
1	Compliance to discharge norms by Industries	Identify gaps w.r.t industries not meeting the standards. Necessary action be initiated through SPCBs against the industries not meeting the standards	PCBA (GM, DICC, Nalbari will submit the list of Industries to the PCBA and PCBA will identify the industries which is not complying the Pollution control norms)	30 days	<p><b>1. Effluent Treatment Plan.</b></p> <p>The following industries are discharging their waste water through own ETP.</p> <p>I.M/S Berger Paint India Ltd., I/E, Tihu, Nalbari.            II.M/S, Kamrup Aluminum Works, I/E, Gopal Bazar.            III. Ahinsha Chemicals Ltd. Milanpur , Nalbari.            IV.Bajaj Agro Foods, Khudrakatlabarkuchi, Nalbari.            V. L. R. Rice Mill, Tihu, Nalbari.</p> <p><b>2. Common ETP.</b></p> <p>There is one common ETP in North East Mega Food Park, Tihu. The following industries are discharging their waste water to the common ETP.</p> <p>I. M/S Sona Gold Agrochem.            II.M/S Graintech Food ( Namkeen)            III.M/S Graintech Food ( Snacks)            IV. Hygen Beverages Pvt.Ltd.            V. Dhansiri Nutrients Foods LLP.</p>
2	Complaint redressal system	Check if there is any complaint redressing system based on Mobile App / Online, is available? If not, a complaint redressing system based on Mobile App / Online portal may be prepared at district level.	District Administration		

## 6.0 Mining Activity Management plan

### a) Current Status related to Mining Activity Management



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Details of Data Requirement	Present Status
Type of Mining Activity	Nil
No of licensed Mining operations in the District	Nil
% Area covered under mining in the District	Nil
Area of Sand Mining	Nil
Area of sand Mining	Nil

## b) Identification of gaps and action plan:

Sl. No	Action Points	Gaps & Action Plan	Responsible agency	Timeline for completion of action plan	Remarks
1	Monitoring of Mining activity	A district level task may be identified to identify mining activity and to monitor status with respect to environmental compliance.	Forest & District Revenue Authority	NA	Since no license Mining Operation is going on, so this may be treated as NIL.
2	Inventory of illegal mining if any mining	<b>Action plan to identify illegal sand and other mining activity in the District through surveillance, patrolling and enforcement. District Level Task force may be constituted for control of illegal mining activity.</b>	Forest & District Revenue Authority		Do
3	Environment compliance by Mining industry	State Environment Impact Assessment Authority (SEIAA) will conduct periodic verification of compliance to environmental conditions stipulated by SPCBs/PCC, MoEF & CC department of mines etc. SPCBs/PCC may be involved in this activity.	State Environment Impact Assessment Authority (SEIAA)		Do

## 7.0 Noise Pollution Management plan

## a) Current Status related to Noise Pollution Management

Details of Data Requirement	Measurable Outcome
No. of noise measuring devices available with various agencies in district	R.O, Guwahati-2 of Pollution Control Board, Assam has one noise level meter available.

## b) Identification of gaps and action plan:

Sl. No	Action Points	Gaps & Action Plan	Responsible agency	Timeline for completion of action plan
1	Availability of Sound/Noise Level Meters	Available at Central Lab PCBA as well as RO, Kamrup	NMB, SHOs, Traffic Police and PCBA	
2	Ambient Noise Level monitoring.	Available	PCBA	
3	Signboards in Noise zones	District Administration is ensuring that adequate numbers of sign boards are installed in sensitive zones of Nalbari Town viz. Hospitals, O/O-The District Commissioner, in front of D.C, Office, Near Educational Institutes & Near Religious places.	DTO Nalbari and District Administration	
4	Complaint redressing system	<b>At present public can lodge complaint through official email at <a href="mailto:membersecretary@pcbassam.org">membersecretary@pcbassam.org</a>. Complainer has been informed after redressed of the same. Also, public can lodge their complaints to the District Administration directly.</b>	PCBA / District Administration	

  
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