

National Mission for Clean Ganga
Format for submission of Monthly Progress Report in the NGT Matter OA
No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)
For the State of Manipur as on 20th December 2020

Overall status of the State:

I. <u>Total Population:</u>	2011 Census	Projected as on 2020
Urban Population	8,34,154	10,47,135
Rural Population	17,36,236	21,79,541
Total	28,55,794	35,84,951

Estimated Sewage Generation (MLD) : 115.054 MLD

II. Details of Sewage Treatment Plant:

- Existing No. of STPs and Treatment Capacity : 1 (one) STP of 27 MLD operational
2 (two) STPs of 16 & 1 MLD under construction
- Capacity Utilization of existing STPs : 9 MLD
- MLD of sewage being treated through alternate technology : NIL
- Gap in Treatment Capacity in MLD : 18 MLD
- No. of Operational STPs : 1 (one) Detail of STP is at **Annexure - 1**
- No. of Complying STPs : 1 (one)
- No. of Non-complying STPs : Nil

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Lamphel, Imphal West	27 MLD	9 MLD	Operational (33%)	Complying

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Maibal Leikai, Imphal West	16 MLD	10%	NIL	31.03. 2022
2	Iroisemba., Imphal West	1 MLD	NIL	NIL	31.03. 2022

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Imphal	49 MLD	Revised DPR, Cleared PIB, submitted to DEA for External Aided Funding opportunities	---

III. Details of Industrial Pollution:

- No. of industries in the State : 989 Nos. (non polluting)
926 outside Industrial Estate
63 inside Industrial Estate
- No. of water polluting industries in the State : Nil
- Quantity of effluent generated from the industries in MLD : Nil
- Quantity of Hazardous Sludge generated from the Industries in TPD: Nil
- Number of industrial units having ETPs : Nil
- Number of industrial units connected to CETP : 5 (five)
- Number and total capacity of ETPs :

 - Details of existing : Nil
 - Under construction : Nil
 - Proposed : Nil
 - Compliance status of the ETPs : Nil

- Number and total capacity of CETPs : 1 (one) CETP (non functional)

 - Details of existing : 1 unit of 400 Kilo Liter / Day
 - Under construction : Nil
 - Proposed : Nil

Town	Existing ETP Capacity	CETP Proposed, if any	Status (DPR/ tendering/ under construction etc.)
Imphal	400 Kilo Liter / day	Nil	Nil

- Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Imphal	5 (five)	Nil	Nil	1 (one) CETP of 400 Kilo Liter / Day at Nilakuthi Industrial Estate, Imphal Status : Non-functional

IV. Solid Waste Management:

- Total Urban Local Bodies (ULBs) : 27 ULBs
- Population of ULBs : 6,17,108 (2011 Census)
: 7,74,671 (2020 projected population)
- Current Municipal Solid Waste Generation : 309.45 MT
(as on 2020 projected population)
- Waste Collected : 185 TPD
- Existing Management / treatment facility : 275.5 TPD
- Utilization of MSW processing : 113.3 TPD
- Segregated Waste landfilled / dumped : 77 TPD
- Number, installed capacity and utilization of existing MSW processing facilities in TPD bifurcated by type of processing e.g. Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio-methanation, MRF, etc.

SN	Name of MSW processing unit	Installed capacity (in TPD)	Utilization (in TPD)	Type of processing	Action plan to bridge Gap between utilization and installed facility
1	Municipal Solid waste Management Plant, Lamdeng, Imphal	200 TPD	30 TPD	Waste to energy and Composting (5-8% of input, now 3T / day in average)	Installed infrastructure for Waste to energy, now under Trial run commercial operation Targets : <ul style="list-style-type: none"> • 30 TPD by Nov 2020 • 60 TPD by Feb 2021, • 120 TPD by May 2021, • 180 TPD by Dec 2021
2	Jiribam MC	10 TPD	2.8 TPD	Composting	Out of total generated waste 3.23 TPD, 0.4 TPD is processed at the source. Hence, no gap.
3	Lamshang NP	3 TPD	3 TPD	Composting	
4	SamurouMC	6 TPD	2 TPD	Composting	More unit by June 2021
5	Sekmai NP	5.5 TPD	0.5 TPD	Composting	100% by Dec 2021
6	Thongkhong Laxmi MC	5 TPD	2 TPD	Composting	100% by Dec 2021
7	Heirok NP	1 TPD		Composting	100% by Dec 2021
8	Kakching MC	8 TPD	2 TPD	Composting	100% by Mar 2021
9	Kakching Khunou MC	4 TPD	3 TPD	Composting	100% by Mar 2021

SN	Name of MSW processing unit	Installed capacity (in TPD)	Utilization (in TPD)	Type of processing	Action plan to bridge Gap between utilization and installed facility
10	Sikhong Sekmai MC	4 TPD	0.65 TPD	Composting	100% by Dec 2021
11	Sugnu MC	2 TPD	1 TPD	Composting	100% by Mar 2021
12	Thoubal MC	25 TPD	4 TPD	Composting	100% by Mar 2021
13	Wangjing Laming MC	2 TPD	0.5 TPD	Composting	100% by Dec 2021
	Total	275.5 TPD	59.6 TPD		59.6 TPD at site 53.8 TPD at source

<ul style="list-style-type: none"> Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%) 	Planning for upgrade the installed capacity as per required by 2021-22
<ul style="list-style-type: none"> No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) 	No data
<ul style="list-style-type: none"> Total No. of wards 	305 Wards
<ul style="list-style-type: none"> No. of wards having door to door collection service 	14% (approx.) at 265 Wards
<ul style="list-style-type: none"> No. of wards practicing segregation at source 	10% (approx.) at 186 Wards

• Details of MSW treatment facilities **proposed and under construction** :

SN	Name of ULB or Processing unit	Capacity	Technology	Proposed / under Construction
1	Multi Segregation Shed at Chothe Village, Ward No. 12, Bishnupur MC	630.75 cum	Anaerobic	Under construction

<ul style="list-style-type: none"> No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills 	<ul style="list-style-type: none"> 1 (one) uncontrolled dumpsite of 2.5 acres at Bishnupur MC Information yet to be submitted by the rest ULBs
<ul style="list-style-type: none"> No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers 	Nil
<ul style="list-style-type: none"> No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers 	<ul style="list-style-type: none"> 3 (three) drains having floating racks / screen at Bishnupur MC Information yet to be submitted by the rest ULBs
<ul style="list-style-type: none"> Status of ULB wise Management of Solid waste 	At Annexure - 2

V. Bio-medical Waste Management:

Total Bio-medical generation	: 0.78 TPD	Remarks : <ul style="list-style-type: none"> • Deep burial practiced at remote rural areas. • DPR submitted to ministry for up-gradation of the existing CBMWTF • Action Plan submitted to the State Pollution Control Board by the Directorate Health Service for BMW management
No. of Hospitals and Health Care Facilities	: 528 Nos. [i/c 251 PHSCs]	
Status of Treatment Facility CBMWTF	: CBMWTF = 1 No Captive Facility = 2 No. Deep Burial = 391 Nos.	
Status of Treatment Facility RTPs	: 8 Nos.	

VI. Hazardous Waste Management:

Total Hazardous Waste generation	: 0.99 TPD
No. of Industries generating Hazardous waste	: 334 (automobile service centres mainly micro-scale units)
Treatment Capacity of all TSDFs	: Nil
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	: Nil
Details of on-going or proposed TSDF	: Under preparation of DPR, Final DPR by March 2021

VII. Plastic Waste Management:

Total Plastic Waste generation	: 22.7 TPD
Treatment / Measures adopted for reduction or management of plastic waste	: Plastic waste utilized for waste to energy plant, road construction and for recycling

VIII. Details of Alternate Treatment Technology being adopted by the State/UT	: Nil
IX. Identification of including drains contributing to river pollution and action as per NGT order on in-situ treatment	: Municipal Wastes (Liquid and solid) are the major polluting sources. <ul style="list-style-type: none"> • 100% door to door collection of solid wastes by March 2021 • Tapping , intercepting and

		<p>diverting all the polluting drains to the STP by March 2022</p> <ul style="list-style-type: none"> • In-situ treatment along the drain through Bio-remediation / Phyto-remediation by March 2022
X.	Details of Nodal Officer appointed by Chief Secretary in the State / UT	<p>:</p> <ul style="list-style-type: none"> i. Shri M.H. Khan Additional Chief Secretary Forest and Environment Govt. of Manipur as Chairman, State level Monitoring Mechanism ii. Dr. T. Brajakumar Singh Deputy Director, Directorate of Environment and Climate Change as Nodal Officer for appearing / VC / submission / compiling of reports before NGT/CPCB/CMC iii. Dr. W. Roshan Singh Asst. Environment Engineer Manipur Pollution Control Board
XI.	Details of meetings carried under the in the State/UT	<p>:</p> <ul style="list-style-type: none"> • Last meeting under Chairmanship Chief of Secretary, Govt. of Manipur was held on 20th Nov 2020 • Once or twice in every month by Chief Secretary of Addl. Chief Secretary (Forest and Environment), Govt. of Manipur
XII.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	<p>:</p> <p>At Annexure – 3</p>
XIII.	Ground water regulation	<p>:</p> <p>Nil</p>
XIV.	Good irrigation practices being adopted by the State	<p>:</p> <p>Not adopting any good irrigation practices, except from river or rain water harvesting</p>

XV. Rain Water Harvesting	:	Nil
XVI. Demarcation of Floodplain and removal of illegal encroachments	:	Demarcation is yet to be started Removal of illegal encroachments
XVII. Maintaining minimum e-flow of river	:	Afforestation at degraded catchment
XVIII. Plantation activities along the rivers	:	Continuing from time to time
XIX. Development of biodiversity park	:	Nil
XX. Reuse of Treated Water	:	Nil
XXI. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards	:	Nambal River (Priority – II) Targeted Action for achieving the bathing quality standards as at Annexure - 4
XXII. Status of Preparation of Action Plan by the 13 Coastal States	:	NA
XXIII. Regulation of Mining Activities in the State/UT	:	Under preparation of District Survey Report for Mining Plan of the State
XXIV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring	:	Nil

Annexure - 1

A. Total Status of STPs in Imphal (as on 20th December 2020)

Particular	Unit	Phase I	Phase II (To be proposed under EAP)	Ongoing NRCD Project	Total
Capacity of STP	MLD	27	49	17	93
Total Sewer Pipe	RM	69,429	277,289		346,718
Primary (Main Pipe)	RM	25,291			25,291
Secondary (Sub-main Pipe)	RM	44,138			44,138
Interception & Diversion Pipelines	RM			14,545	14,545
No. of urban drains to be collected	Drain			72	72
Targeted Connection septic tank	Unit	12,000			12,000
Connected septic tank	Unit	4,500			4,500
Lift Station	Unit	5	21	14	40
Population	Lakh	1.73	4.33		6.06
Covered Municipal Ward	Wards	11	16	14	
Area covered	Sq. Km.		35		
Covered Polluted River		Nambul P-II	Nambul P-II	Nambul P-II	
Method of Treatment		ASP	SBR	MBBR	

B. In-situ Bio-remediation and others :

	Name of the Polluted River (P-V)	Total Length of the River	Length of the Polluted stretches	BOD Range (mg/l)	Population at polluted zone	Status / Proposed for Treatment
1	Imphal	89.24 km	19.98 km	3.4 – 6.4	84,857	DPR submitted to NRCD for in-situ treatment through Bio-remediation of 16.75 MLD, <u>Fecal Sludge and Septage Management (FSSM)</u> of 50 KLD
2	Iril	156.50 km	18.12 km	3.2	1,714	
3	Khuga	79.25 km	10.92 km	3.1 – 3.6	857	
4	Khujairok	10.06 km	4.21 km	4.3	4,286	
5	Lokchao/ Thongjarok	17.04 km	5.31 km	4.5	1,143	
6	Manipur	261.00 km	35.00 km	3.6 – 4.3	7,143	
7	Thoubal	142.80 km	24.61 km	3.5	30,286	
8	Wangjing	35.08 km	3.70 km	4.1 – 4.3	7,143	

Note :

ASP (Activated Sludge Process),

EAP (Extended Aeration Process),

SBR (Sequencing Batch Reactor)

MBBR (Moving Bed Biofilm Reactor)

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE (December 2020)

Sl. No.	City / Town	No. of STP	Location of STP	Coordinates of STP	STP Commissioned year	Status (operational/ Non Operational/ Under Construction)	STP Installed Capacity (In MLD)	Actual Utilization of installed capacity (In MLD)	Technology UASB / ASP / OP / SBR / MBBR / FAB etc.	Consent status	Compliance Status (Source : Manipur Pollution Control Board)			
											pH	TSS mg/l	COD mg/l	BOD mg/l
1	Imphal	1	Lamphel	24°49'45"N 93°54'58"E	2020	Operational	27	9	ASP		6.6	2.6	5.3	2.2

TABLE A : MUNICIPAL SOLID WASTES GENERATION AND MANAGEMENT (AS ON DECEMBER 2020)

No.	Name of ULB	Population		Solid Waste Generated (MTD)	Waste Collected (MTD)	Gap between Generated and Collected + Managed (at source)	Managed/Treated (in MTD)					Plan to mitigate the gap between generation of wastes Vs collection, managed / treated and Remarks
		2011 Census	2021 Projected				Facilities	Managed / Treated	processed at source	Total	Gap	
1	Bishnupur MC	12,167	15,274	5.35	3	1.5	0	3	0.8	3.8	29%	<ul style="list-style-type: none"> • 80% D2D (present) and 100% D2D by March 2021 • Exists 10 TPD capacity of sanitary landfill
2	Kumbi MC	9,546	11,983	4.19	1.5	0.2	0	1.5	2.5	4.0	5%	<ul style="list-style-type: none"> • Now 70% D2D and 100% D2D by June 2021 • Land Available 0.23 Acre, • Composting plant by Dec 2021
3	Kwakta MC	8,579	10,769	3.77	0.75	1.7	0	0	1.35	1.4	64%	<ul style="list-style-type: none"> • 100% D2D by Dec 2021 • Composting unit, by July 2021
4	Moirang MC	19,893	24,972	8.74	3	4.5	0		1.2	1.2	86%	<ul style="list-style-type: none"> • Additional 6 vehicle for waste transport by March 2021 • Composting plant by Dec 2021
5	Ningthoukhong MC	13,078	16,417	5.75	2.5	2.1	0	0.25	1.10	1.4	77%	<ul style="list-style-type: none"> • 100% D2D by Dec 2021 • Composting unit, by August 2021
6	Oinam MC	7,161	8,989	3.15	2	0.8	0	0	0.3	0.3	90%	<ul style="list-style-type: none"> • Composting plant by August 2021
7	Andro NP	8,744	10,977	3.84	1	1.7	0	0	1.1	1.1	71%	<ul style="list-style-type: none"> • 100% D2D by July 2021 • Composting unit by July 2021
8	Imphal MC*	265,573	350,050	157.52	125	16.8	200	30	15.8	45.8	71%	<ul style="list-style-type: none"> • 100% D2D by March 2021 • Waste to Energy by March 2021
9	Lamlai MC	4,601	5,776	2.02	0.8	0.2	0		1.0	1.0	51%	<ul style="list-style-type: none"> • 100% D2D by June 2021 • Composting unit by Mar 2021
10	Jiribam MC*	7,343	9,218	3.23	2.83	0.0	10	2.83	0.4	3.23	0%	<ul style="list-style-type: none"> • 100% D2D collection covered and 100% managed
11	Lamshang NP	8,130	11,226	3.93	3	0.0	3	3	0.9	3.9	0%	<ul style="list-style-type: none"> • 100% D2D collection covered and 100% managed
12	Lilong IW NP	12,427	15,600	5.46	2	0.5	0	2	3.00	5.0	8%	<ul style="list-style-type: none"> • Distribution home composting bins, more vehicles and manpower by 31st July 2021 • Cluster basis facilities at Lamdeng SWM Plant
13	Mayang Imphal MC	24,239	30,428	10.65	2	7.6	0		1.0	1.0	91%	<ul style="list-style-type: none"> • 100% D2D and composting unit under construction, completing by June 2021
14	Nambol MC	22,512	28,260	9.89	4	4.9	0		1.0	1.0	90%	<ul style="list-style-type: none"> • 100% D2D by Dec 2021 • Composting plant targeted by April 2021 • Segregation shed to be operational by Jan 2021.
15	Samurou MC	16,582	20,816	7.29	1.5	5.1	6	2	0.7	2.7	63%	<ul style="list-style-type: none"> • 100% D2D by Dec 2021 • New composting unit by June 2021

No.	Name of ULB	Population		Solid Waste Generated (MTD)	Waste Collected (MTD)	Gap between Generated and (Collected + Managed at source)	Managed/Treated (in MTD)					Plan to mitigate the gap between generation of wastes Vs collection, managed / treated and Remarks
		2011 Census	2021 Projected				Facilities	Managed / Treated	processed at source	Total	Gap	
16	Sekmai NP	5,065	6,358	2.23	1	0.6	5.5	0.5	0.6	1.1	51%	<ul style="list-style-type: none"> • 100% D2D by December 2021 • Two more Vermicomposting units under construction • Segregated dry waste to be transferred at Lamdeng
17	Thongkhong Laxmi MC	14,878	18,677	6.54	1.5	4.4	5	2	0.6	2.6	60%	<ul style="list-style-type: none"> • 100% D2D by Dec 2021
18	Wangoi MC	9,106	11,431	4.00	1.1	1.4	0		1.5	1.5	63%	<ul style="list-style-type: none"> •
19	Heirolk NP	2,974	3,733	1.31	0.5	0.5	1	0	0.26	0.3	80%	<ul style="list-style-type: none"> • 100% D2D by Dec 2021 • Increasing composting unit by Dec 2021
20	Kakching MC	32,138	40,344	14.12	6.21	6.1	8	2	1.8	3.8	73%	<ul style="list-style-type: none"> • 100% D2D by Mar 2021 • Segregation machine at management unit
21	Kakching Khunou MC	11,379	14,284	5.00	1.4	2.0	4	3	1.6	4.6	8%	<ul style="list-style-type: none"> • 100% D2D by Mar 2021
22	Lilong TBL	24,900	31,258	10.94	1.5	3.2	0	1.5	6.20	7.7	30%	<ul style="list-style-type: none"> • 100% D2D by Dec. 2021 • Transfer station by Dec, 2021 • Treatment facilities at Thoubal cluster
23	Sikhong Sekmai MC	7,390	9,277	3.25	0.5	0.1	4	0.5	2.60	3.1	5%	<ul style="list-style-type: none"> • 100% D2D by Dec 2021
24	Sugnu MC	5,132	6,442	2.25	0.5	0.8	2	1	1.0	2.0	11%	<ul style="list-style-type: none"> • 100% D2D by Mar 2021
25	Thoubal MC	45,947	57,678	20.19	7.5	8.7	25	4	4.0	8.0	60%	<ul style="list-style-type: none"> • 100% D2D by Mar 2021
26	Wangjing Lamding MC	8,055	10,112	3.54	1.5	1.3	2	0.5	0.70	1.2	66%	<ul style="list-style-type: none"> • 100% D2D and more composting unit by Dec 2021
27	Yairipok MC	9,569	12,012	4.20	2	1.4	0	0	0.80	0.8	81%	<ul style="list-style-type: none"> • 100% D2D and by Dec 2021 • Segregation shed & composting unit by Dec 2021
Total		617,108	792,361	312.3	180.1	78.5	275.5	59.6	53.8	113.3	64%	
PC to the generated wastes					58%		88%	19%	17%	36%		

Note :

Taking r=2.3 as annual Population growth rate [Ref : MoUD, GoI]

* Waste generated is estimated including floating population @10%

TABLE B : SOLID WASTES GENERATION, COLLECTION AND MANAGEMENT – WARDWISE OF ULBs IN MANIPUR, DECEMBER 2020

Sl. No.	Name of ULB	Total Wards	Door to Door (D2D) collection		Segregated at source		Land Available in Acre	Type of Processing unit	Plan to mitigate the gap generation and Management
			No. of Wards	in %	No. of Wards	in %			
1	Bishnupur MC	12	12	80%	12	25%	5	Sanitary Landfill	Composting plant at 2.5 Acre
2	Kumbi MC	9	7		7	35%		Composting	
3	Kwakta MC	9	9	15%	4	15%	0.625	Composting	Composting unit by July 2021
4	Moirang MC	12	12	84%	0		0	Composting	
5	Ningthoukhong MC	14	14	43%	6	42%		Composting & sent back for re-cycling	Composting unit by August 2021
6	Oinam MC	9	9	70%	0		0	Composting	100% by Dec 2021
7	Andro NP	12	12	70%	12	60%	0	Composting	100% by July 2021
8	Imphal MC	27	27		27	10%		Waste to Energy and Composting	100% by Dec 2021
9	Lamlai MC	9	9	30%	9	30%	0	Composting	By March 2021
10	Jiribam MC	10	10	100%	10	100%	5	Composting Send back for recycling	Nil
11	Lamshang NP	9	9		9	100%		At Lamdeng	
12	Lilong IW NP	9	9	80%	7	80%		Transfer station	Completing by July 2021
13	Mayang Imphal MC	13	9	50%	9	50%	1.24	Composting	
14	Nambol MC	18	11	50%	Nil		3.5	Composting	
15	Samurou MC	11	7	25%	3	10%	0	Composting	
16	Sekmai NP	9	4	40%	2	15%	0	Composting	Capacity building of manpower
17	Thongkhong Laxmi MC	11	6	20%	2	10%	0	Composting	
18	Wangoi MC	9	5	50%	5	50%		composting	
19	Heirolk NP	9	9	50%	0			Composting	More composting unit by Dec 2021
20	Kakching MC	12	12	85%	12	85%		Composting	
21	Kakching Khunou MC	9	9	80%	9	80%		Composting	

Sl. No.	Name of ULB	Total Wards	Door to Door (D2D) collection		Segregated at source		Land Available in Acre	Type of Processing unit	Plan to mitigate the gap generation and Management
			No. of Wards	in %	No. of Wards	in %			
22	Lilong TBL	9	4	60%	5	40%	0	Composting	More composting unit by Dec, 2021 Plastic shredders machine, engagement of recyclers by Dec, 2021
23	Sikhong Sekmai MC	9	9	68%	9	68%		Segregated plastic waste sent to recycler	Composting unit by Dec 2021
24	Sugnu MC	9	9	60%	9	60%		Composting	
25	Thoubal MC	18	18	70%	9	20%	6.7	Composting	
26	Wangjing Lamding MC	9	9	80%	9	20%		Composting	More composting unit by Dec 2021
27	Yairipok MC	9	5	60%				Composting	Segregation shed & composting unit by Dec 2021
Total		305	265	14%	186	10%	22		

TABLE C : SOLID WASTES PROCESSING AND MANAGEMENT – WARDWISE OF ULBs IN MANIPUR, DECEMBER 2020

SI. No.	Name of ULB	Name of Processing unit	Capacity	Technology	Status	Uncontrolled dumpsite / sanitary landfill		Area of legacy waste within 1 km buffer of the river	Drains falling into river having floating racks / screen
						No.	Area		
1	Bishnupur MC	Multi Segregation Shed at Chothe Village (Ward No. 12)	630.75 cum	Anaerobic	Under Construction	1	2.5 acre	Nil	3 Drains
2	Kumbi MC	Yet to be submitted							
3	Kwakta MC	Yet to be submitted							
4	Moirang MC	Yet to be submitted							
5	Ningthoukhong MC	Yet to be submitted							
6	Oinam MC	Yet to be submitted							
7	Andro NP	Yet to be submitted							
8	Imphal MC	Yet to be submitted							
9	Lamlai MC	Yet to be submitted							
10	Jiribam MC	Yet to be submitted							
11	Lamshang NP	Yet to be submitted							
12	Lilong IW NP	Yet to be submitted							
13	Mayang Imphal MC	Yet to be submitted							
14	Nambol MC	Yet to be submitted							
15	Samurou MC	Yet to be submitted							
16	Sekmai NP	Yet to be submitted							
17	Thongkhong Laxmi MC	Yet to be submitted							
18	Wangoi MC	Yet to be submitted							
19	Heirolk NP	Yet to be submitted							
20	Kakching MC	Yet to be submitted							
21	Kakching Khunou MC	Yet to be submitted							
22	Lilong TBL	Yet to be submitted							
23	Sikhong Sekmai MC	Yet to be submitted							
24	Sugnu MC	Yet to be submitted							
25	Thoubal MC	Yet to be submitted							
26	Wangjing Lamding MC	Yet to be submitted							
27	Yairipok MC	Yet to be submitted							

**STATUS OF WATER QUALITY OF IMPHAL RIVER, IRIL RIVER, MANIPUR RIVER, THOUBAL RIVER, WANGJING RIVER, KHUGA RIVER, KHUJAIROK RIVER, LOKCHAO RIVER AND NAMBUL RIVER
FOR THE MONTH OF DECEMBER, 2020**

1. Status of Water Quality of Imphal River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Koirengei	7.6	7.2	2.9	6.4	40
Minutrhong	7.1	7.1	3.1	8.7	50
Mahabali	6.7	7.1	2.8	6.8	45

2. Status of Water Quality of Iril River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Kangla Siphai	7.3	7.2	3.1	7.9	40
Porompat	7.4	7.2	2.9	8.0	35
Lilong	7.3	7.1	3.0	8.2	40

3. Status of Water Quality of Manipur River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Yairipok	7.2	7.2	3.4	7.9	40
Sekmajing	7.3	7.1	3.2	8.2	45
Ithai	7.4	7.4	3.1	10.0	40

4. Status of Water Quality of Thoubal River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Litan	7.4	7.3	2.9	7.8	5

5. Status of Water Quality of Wangjing River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Heirok	7.4	7.2	3.0	7.6	30
Wangjing	7.5	7.2	3.4	9.0	35

6. Status of Water Quality of Khuga River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform

					(MPN/100ml)
Khuga River Churachandpur Bazar	7.3	7.1	3.0	8.9	40
Khuga Dam	7.4	7.3	3.2	7.6	5

7. Status of Water Quality of Khujairok River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Khujairok	7.3	7.1	3.1	10.1	110

8. Status of (Bishnupur) Water Quality of Lokchao River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Near Bishnupur Bazar at Bishnupur Lokchao Bridge	7.3	7.3	3.0	7.9	15

9. Status of Water Quality of Nambul River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Samushang	6.1	6.6	3.8	10.0	125
Naoremthong	6.6	6.8	3.7	9.5	90
Hump Bridge	5.2	6.4	3.5	14.8	130
Heirangoithong	5.3	6.6	3.4	14.9	130
Singda	7.7	7.4	2.4	7.2	Nil

10. Swage Treatment Plant at Outlet.

Location	pH	TSS Mg/L	BOD Mg/L	COD Mg/L
Langol	6.6	2.6	2.2	5.3

Action Plan of the model river in Manipur

Action	Target Action	Priority – II : Nambul River		
		Target Quantity	Time Line	Status
Action 1	Solid Waste Management			
1.1	Identification of garbage vulnerable point	12 Municipal Wards	Oct 2019	Completed
1.2	Door to Door Collection, identify & register of missed out house hold, punitive action against litterer along the River	12 Municipal Wards	Oct 2019	Completed
1.3	Formation of Tasks Force for proper implementation of waste management		Oct 2019	Constituted
1.4	Providing of household waste bins	19,863 bins	Oct 2020	60% completed
1.5	High rise fencing of grilling and netting at vulnerable zones of both the river banks to protect throwing of solid wastes into the river	5 km	Apr 2021	Covered 1 km
1.6	Renovation of existing crematoria along the river stretch	56 No.	Apr 2021	Completed 10 units
1.7	Installation of secondary waste collection bins / community bins / dumper placer containers / transfer bins / littering bins at suitable places	37 Nos.	Oct 2020	Completed 10 Nos.
1.8	Construction of Public toilets at vulnerable points	35 Nos. by IMC 20 Nos. under NRCD	Apr 2021	2 No. Completed
1.9	IEC / Public Awareness Activities	14 No. (one each in every ward)	Every month	Conducted regularly
Action 2	Channelization, treatment, utilization and disposal of treated domestic sewage			
2.1	Identification of location and estimation of liquid waste generation at Imphal town		Oct 2019	Completed
2.2	Interception and diversion of the urban drains / outfalls to the Nambul River by laying pipes of 14,545 meters at both the banks of River at 12 Municipal Wards viz. 6, 7, 8, 9, 11, 12, 13, 14,15, 16, 24 and 27		Apr 2022	
2.3	Treatment option and capacity : Installation of 2 (two) Sewage Treatment Plants (STPs) of 16 MLD and 1 MLD		Apr 2022	
2.4	Commissioning of the Imphal Sewerage Project Phase-I of 27 MLD		Dec 2019	Commissioned
2.5	Commissioning of the Imphal Sewerage Project Phase-II of 41 MLD		Apr 2022	
Action 3	Protection of catchment area			
3.1	In-situ augmentation of medicinal plants and economic plantation at catchment			Completed
Action 4	Protection and prevention of Flood Plain Zone			
4.1	Protection and Improvement of River Bunds. 1,500 m for Nambul River 16,860 m in Imphal River 2,670 m in Kongba River 2,403 m in Thoubal River 317 m in Wangjing River 11,711 m in Manipur River		Before 2021	

Action	Target Action	Priority – II : Nambul River		
		Target Quantity	Time Line	Status
4.2	Re-Sectioning of Rivers and Streams. 82,091 m in Imphal River. 15,480 m in Kongba River 89,100 m in Nambul and its tributaries. 1,900 m in Chakpi River		Before 2021	
4.3	CC/RCC Retaining Walls with and without piles to be provided at the most eroded and vulnerable river banks.		Before 2021	