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 28th October 2020

Overall status of the State:

I. Total Population:

	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)
- No. of Complying STPs : Nil
- No. of Non-complying STPs : Status of STP of the state is at **Annexure - 1**

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
	Imphal	49 MLD	Prepared DPR, Cleared PIB, communicated 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 : 191 TPD
- Utilization of MSW processing : 93 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	125 TPD	30 TPD	Composting (5-8% of input, now 3T / day in average)	Installed infrastructure for Waste to energy, now under Trial run commercial operation **Targets :** • 30 TPD by Nov 2020 • 60 TPD by Feb 2021, • 120 TPD by May 2021, • 180 TPD by Dec 2021

• Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	Planning for upgrade the installed capacity at 200 TPD by 2021-22
• No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	No data
• Total No. of wards	305
• No. of wards having door to door collection service	275
• No. of wards practicing segregation at source	157

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

SN	Name of ULB or Processing unit	Capacity	Technology	Proposed / under Construction
	Nil	Nil	Nil	Nil

• No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	Inventirization is going on
• No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	Nil
• No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	Inventirization is going on
• Status of ULB wise Management of Solid waste	At **Annexure - 2**

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V. Bio-medical Waste Management:

Total Bio-medical generation	:	0.78 TPD	**Remarks :** • 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 Dec. 2020

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. • 100% door to door collection of solid wastes by Dec 2020 • Tapping , intercepting and diverting all the polluting drains to the STP by April 2022 • In-situ treatment along the drain through Bio-remediation / Phyto-remediation
X.	Details of Nodal Officer appointed by Chief Secretary in the State / UT	:	i. Shri M.H. Khan Additional Chief Secretary Forest and Environment Govt. of Manipur as Chairman, State level Monitoring Mechanism (**Annexure – 3**) 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 (**Annexure – 4**) iii. Dr. W. Roshan Singh Asst. Environment Engineer Manipur Pollution Control Board
XI.	Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT	:	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	:	At **Annexure – 5**
XIII.	Ground water regulation	:	Nil
XIV.	Good irrigation practices being adopted by the State	:	Not adopting any good irrigation practices, except from river or rain water harvesting
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	:	Nambul River (Priority – II) Targeted Action for achieving the bathing quality standards as at **Annexure - 6**
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	:	

Annexure - 1

A. Total Status of STPs in Imphal

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	3,200			3,200
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	16.75 MLD under preparation of DPR for in-situ treatment through Bio-remediation, Faecal Sludge and Septage Management (FSSM)
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 Bio Bed Reactor)

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

Sl. No.	City / Town	No. of STP	Location of STP	Coordinates of STP	STP Commissioned in (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 (In mg/ Lit except pH)			
											pH	TSS	COD	BOD
1	Imphal	1	Lamphel	24◦49"45'N 93◦54"58'E	2020	Operational	27	9	ASP		6.9	1.3		6

Annexure - 2

MUNICIPAL SOLID WASTES GENERATION AND MANAGEMENT

SN	Name of ULB	Population 2011	Projected Population in 2020	Solid Waste Generated (MTD) based on projected population in 2020	Waste Collected (MTD)	Management / Treatment Facilities (MTD)	Utilized / Managed at present (MTD)	Total No. of Wards	No. of wards having door to door collection	No. of Wards practicing segregation at source	Remarks
1	Bishnupur MC	12,167	15,274	5.35	3		3	12	12	12	• Constructed Segregation and composting unit, functioning by Dec 2020 • 80% door to door collection as on date, targeted for 100% by Mar 2021 • 25% segregation at the source as on date • 100% segregation by Jul 2021
2	Kumbi MC	9,546	11,983	4.19	1.3		2	9	7	0	• Door to door collection at 7 wards
3	Kwakta MC	8,579	10,769	3.77	0.75		1.8	9	9	0	• Waste segregation shed & transfer station of 8 MTD under construction
4	Moirang MC	19,893	24,972	8.74	3			12	12	0	•
5	Ningthoukhong MC	13,078	16,417	5.75	2.5		3	14	14	6	•
6	Oinam MC	7,161	8,989	3.15	1.4		2	9	9	0	•
7	Andro NP	8,744	10,977	3.84	2.1	3	2	12	12	12	• 100% door to door collection of wastes (12 wards) • 1.1 TPD as home yard compost • 0.3 TPD plastic waste through recycler • 0.7 TPD segregated waste at dump site
8	Imphal MC	265,573	333,381	155.00	125	125	30	27	27	5	• Waste generated estimated including Floating population • Installed infrastructure for Waste to Energy Plant, compost, RDF, etc. • Status : Trial run • 30 TPD by Nov 2020 • 60 TPD by Feb 2021, 120 TPD by May 202, 180 TPD by Dec 2021
9	Lamlai MC	4,601	5,776	2.02	0.8		1	9	9	0	• Segregation Shed of 2 TPD by Jan 2021 • Composting Pits of 3 TPD by Dec 2020 • Compressor Machine of 15 T by Jan 2021 • Electric Indicator of 20 kg/day by Dec 2020
10	Jiribam MC	7,343	9,218	3.23	2.99	4.53		10	10	10	•
11	Lamshang NP	8,130	10,206	3.57	3		0.34	9	9	9	• Waste segregation shed and composting unit constructed • 100% door to door collection • 0.34 TPD as home yard composting
12	Lilong IW NP	12,427	15,600	5.46	1	1	3	9	9	9	• Waste segregation, composting shed under construction (70% completed) • 100% segregation at source of wastes by 31.03.2021
13	Mayang Imphal MC	24,239	30,428	10.65	4		4	13	9	9	• Segregation shed (13 No.) & community bins by Nov 2020
14	Nambol MC	22,512	28,260	9.89	4.1		5	18	11	0	• Segregation shed by Dec 2010

SN	Name of ULB	Population 2011	Projected Population in 2020	Solid Waste Generated (MTD) based on projected population in 2020	Waste Collected (MTD)	Management / Treatment Facilities (MTD)	Utilized / Managed at present (MTD)	Total No. of Wards	No. of wards having door to door collection	No. of Wards practicing segregation at source	Remarks
											• Composting unit by Feb 2021
15	Samurou MC	16,582	20,816	7.29	1.98	6	1.98	11	7	3	• Segregation and composting unit of 6MTD completed • 0.66 TPD as home yard composting • 0.10 TPD of plastic waste to recyclers • 1.22 TPD transferred to Waste to Energy
16	Sekmai NP	5,065	6,358	2.23	1.6	6	3	9	9	0	• 6 MTD waste segregation and transfer station completed • Composting pit of 7 MT by Dec 2020
17	Thongkhong Laxmi MC	14,878	18,677	6.54	1.78	5	1.78	11	6	2	• Segregation & composting unit of 5MTD constructed • 0.6 TPD of MSW as home yard • 0.10 TPD of plastic waste to recycler • 1.08 TPD transferred to Waste to Energy
18	Wangoi MC	9,106	11,431	4.00	1.1		1	9	5	5	•
19	Heirok NP	2,974	3,733	1.31	0.53		1	9	9	0	• Waste segregation and transferring unit constructed • 100% door to door collection
20	Kakching MC	32,138	40,344	14.12	6.21		6	12	12	12	• Composting unit of 4 TPD by Oct 2020 • DPR for waste management submitted • Collected plastic wastes by private party
21	Kakching Khunou MC	11,379	14,284	5.00	3	4	3	9	9	9	• 2 TPD of MSW as home yard composting • 0.5 TPD of plastic waste to recycler
22	Lilong TBL	24,900	31,258	10.94	1.5	1.5	5	9	9	9	• Segregated waste of 1.5 TPD is dumped at Thoubal Khunou under Cluster B approach • Segregation and Composting unit by Mar 2021
23	Sikhong Sekmai MC	7,390	9,277	3.25	0.44	4	1.8	9	9	9	• 100% door to door collection at 9 ward • Waste segregation shed is operational • 1.76 TPD as home yard compost
24	Sugnu MC	5,132	6,442	2.25	1	2	1	9	9	9	• 100% door to door collection at 9 ward • 0.5 TPD as home yard compost • 0.2 TPD of plastic waste to recycler • 0.3 TPD of segregated waste transferred to the processing unit
25	Thoubal MC	45,947	57,678	20.19	7.5	25	6	18	18	18	•
26	Wangjing Lamding MC	8,055	10,112	3.54	1.75		2	9	9	9	• Constructed waste segregation and transferring station • 100% door to door collection at 9 wards and processed by 31.03.2021
27	Yairipok MC	9,569	12,012	4.20	2	4	2	9	5	0	• 100% Door to door collection
Total		617,108	774,671	309.45	185	191	93	305	275	157	

Annexure – 3

GOVERNMENT OF MANIPUR
SECRETARIAT: FOREST & ENVIRONMENT DEPARTMENT

ORDERS BY THE GOVERNOR: MANIPUR
Imphal, the 14th October, 2020

No. 8/151/2019-MPCB: In pursuance of the direction issued by the Hon'ble National Green Tribunal in O.A. No. 673 of 2018 on 06-12-2019, the Governor of Manipur is pleased to constitute a State level Monitoring Mechanism comprising of the following Members for ensuring compliance of the direction of the NGT for 100% treatment of sewage to the extent of in-situ remediation before 31-03-2020 along with work on setting up of Sewage Treatment Plant and connection all the drains & other sources of generation of sewage to the STPs with immediate effect.

(i)	Addl. Chief Secretary (For. &Envt.), Govt. of Manipur	- Chairman
(ii)	Commissioner (PHED), Govt. of Manipur	- Member
(iii)	Chief Engineer (PHED), Manipur	- Member
(iv)	Chief Engineer (Water Resources), Manipur	- Member
(v)	Director (Trade, Commerce & Industries), Manipur	- Member
(vi)	Director (MAHUD), Manipur	- Member
(vii)	Director (Health), Manipur	- Member
(viii)	Director (Environment & Climate Change), Manipur	- Member
(ix)	Member Secretary (MPCB), Manipur	- Member Secretary
(x)	DFO (Central), Govt. of Manipur	- Member

2. The Monitoring Mechanism is also to ensure the timeline for completing all steps of action plans in the matter including completion of setting up STPs and their commissioning till 31-03-2021.

3. Functions of the Monitoring Mechanism shall be under the overall supervision and co-ordination of the Chief Secretary, Govt. of Manipur, and that monitoring must take place on fortnightly basis.

4. This is issued in supersession of the earlier Order of Constitution of a State level Monitoring Mechanism dt. 23-01-2020 of even No. in view of the decision taken in the Meeting chaired by Chief Secretary, Govt. of Manipur on 16-07-2020 to discuss various issues related to NGT Cases.

By Orders & in the name of the Governor,

(M. H. Khan)
Addl. Chief Secretary to the Government of Manipur

Copy to:

(i) Secretary to the Chief Minister, Manipur
(ii) PPS to Minister (For. &Envt.), Manipur
(iii) Staff Officer to Chief Secretary, Govt. of Manipur
(iv) Addl. Chief Secretary (For. &Envt.), Govt. of Manipur
(v) Addl. Chief Secretary (Trade, Commerce & Industries), Govt. of Manipur
(vi) PCCF &HoFF, Manipur
(vii) Principal Secretary (Health), Govt. of Manipur
(viii) Commissioner (PHED), Govt. of Manipur
(ix) Commissioner (MAHUD), Govt. of Manipur
(x) Secretary (Water Resource), Govt. of Manipur
(xi) Chief Engineer (PHED), Manipur
(xii) Chief Engineer (Water Resources), Manipur
(xiii) Director (Trade, Commerce & Industries), Manipur
(xiv) Director (MAHUD), Manipur
(xv) Director (Health), Manipur
(xvi) Director (Environment & Climate Change), Manipur
(xvii) Member Secretary (MPCB), Manipur
(xviii) DFO (Central), Govt. of Manipur
(xix) Guard File
(xx) GAD Central Dispatch

Annexure – 4

GOVERNMENT OF MANIPUR
SECRETARIAT : FORESTS & ENVIRONMENT DEPARTMENT

ORDERS BY THE GOVERNOR : MANIPUR
Imphal, the 27th August, 2020

No.21/4/2020- For.(E & CC) : The Governor of Manipur is pleased to accord approval to the nomination of Dr. T. Brajakumar Singh, Deputy Director of Directorate of Environment & Climate Change, Manipur as Nodal Officer for appearing/ VC/ submission/ compiling of reports before National Green Tribunal/Central Pollution Control Board/Central Monitoring Committee etc.

By Orders & in the name of the Governor,

(A. Heera Singh
Under Secretary (For. & Envt.)
Government of Manipur

Copy to :-

1. P.S. to the Addl. Chief Secretary (For. & Envt.), Govt. of Manipur
2. Director/Environment & CC, Manipur
3. Officer concerned
4. Guard file

Annexure – 5

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 OCTOER 2020

1. Status of Water Quality of Imphal River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Koirengei	7.5	7.4	2.7	3.7	40
Minutrhong	7.5	7.4	2.7	8.1	40
Mahabali	7.4	7.5	2.8	5.6	35

2. Status of Water Quality of Iril River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Kangla Siphai	7.6	7.65	2.5	7.8	10
Porompat	7.6	7.5	2.5	7.8	20
Lilong	7.5	7.6	2.6	7.9	45

3. Status of Water Quality of Manipur River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Yairipok	7.4	7.4	2.6	7.6	50
Sekmaijing	7.4	7.4	2.7	8.2	55
Ithai	7.5	7.6	2.8	9.8	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	7.6	2.4	7.9	---(Nil)

5. Status of Water Quality of Wangjing River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Heirok	7.1	7.4	2.6	7.9	20
Wangjing	7.2	7.5	2.7	7.9	30

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	7.4	7.6	2.8	8.7	60
Khuga Dam	7.6	7.5	2.5	7.8	Nil

7. Status of Water Quality of Khujairok River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Khujairok	7.6	7.1	2.8	8.9	85

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	7.7	7.6	2.6	7.9	10

9. Status of Water Quality of Nambul River

Location	DO	pH	BOD Mg/L	COD Mg/L	Fical Coliform (MPN/100ml)
Samushang	7.1	7.1	2.9	8.5	110
Naoremthong	7.3	7.2	2.7	8.8	100
Hump Bridge	6.2	7.2	3.5	10.8	160
Heirangoithong	6.3	7.2	3.2	10.9	145
Singda	7.7	7.4	2.6	7.2	Nil

10. Swage Treatment Plant at Outlet.

Location	pH	TSS Mg/L	BOD Mg/L	COD Mg/L
Langol	6.5	2.5	2.1	5.2

Annexure – 6

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	
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	
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	