

Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya

'ARDEN' Lumpyngngad, Shillong-793014

Website: <http://megspcb.gov.in>



No. MPCB/GEN-285/2019(PT-II)/ 8

Dated Shillong the 17/2/2020

To,

Shri Ruby Raju
National Mission for Clean Ganga
Ministry of Jal Shakti

Email: ruby.raju@nmcg.nic.in

Sub: Submission of Information by the State in the NGT matter OA No 673/2018

Ref: No. MPCB/GEN-285/2019(PT-II) /6 Dated Shillong the 12th Feb 2020

Sir

In continuation to the letter under reference ,enclosed please find herewith the prescribed Format where additional information were incorporated. This is for favour of your information & necessary action

Enclo : As stated

Yours faithfully


MEMBER SECRETARY
MSPCB, SHILLONG

Memo. No. MPCB/GEN-285/2019(PT-II)/

Dated Shillong the

Copy to:-

1. Shri. A. Sudhakar, DH, WQM-I, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 110032 for kind information. This has a reference to his Letter No F No-A-14011/OA 673/2020-WQM-I/12208 dated 04.02.2020(enclosed the Filled in Format) Email: asudhakar.cpcb@nic.in/jcb.cpcb@nic.in

MEMBER SECRETARY
MSPCB, SHILLONG

NATIONAL MISSION FOR CLEAN GANGA
FORMAT FOR SUBMISSION OF MONTHLY PROGRESS REPORT BY STATES/UTS
(HON'BLE NGT IN THE MATTER OF OA NO. 673/2018 DATED 06.12.2019)

Sl. No	Activity to be monitored	Time line	Submission of Progress by State/UT- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	Urban affairs Department awarded the Contract to M/S WAPCOS Ltd for preparation of DPR for setting up of STP
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	
5	Chief Secretaries may set up appropriate monitoring mechanism at State level - Specifying accountability of nodal authorities not below the Secretary level - Chief Secretaries may have an accountable person attached in their office for this purpose	22.01.2020 22.01.2020	
	Monitoring at State level must take place	Fortnightly Commencing 21.12.2019	
6	Progress report may be furnished by the States/UTs to - Secretary, Ministry of Jal Shakti - Member Secretary, CPCB	Monthly (preferably before 20 th of every month)	
6.1	<i>Progress Report may be comprised of details alongwith completion timelines on:</i>		
	(xiv) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in situ treatment		RRC has identified 20 drains in Umkhrah river and 12 drains in Umshyrpi river . DPR for Bio-remediation to prepared by Urban Affairs Department .List of drains enclosed as Annexure I (Umkhrah) & I(Umshyrpi)
	(xv) <u>Status of STPs, I & D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed alongwith completion		

(xvi)	<u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed alongwith completion timeline, No. of industries and complying status		List enclosed as Annexure II
(xvii)	<u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		For treatment of the bio-degradable waste, a 170 TPD Compost Plant is under Construction at Marten, Shillong which is proposed to be commissioned by 31 th March 2020. For Scientific disposal of waste a 6500 sqm sanitary landfill site has been developed at Marten, Shillong. An additional 15000 sqm sanitary landfill site is also completed
(xviii)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		List Enclosed as annexure III A to III C for Umkhrah & III A to IIIC for Umshyrpi
(xix)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing wastes processing, including waste generated from hotels, ashrams, etc.		1. The Shillong Municipal Board collects solid wastes at an average of 44.86 MT on a daily basis. Door-to-door collection has been introduced in all the wards so as to minimize littering. 2. For Bio-medical wastes deep burial is being carried till upgradation of existing treatment facilities is completed 3. The plastic Waste was collected as municipal waste into dry waste and

			wet waste. The plastic waste was segregated from the dry waste at the dumpsite and collected for compaction and bailing
	(xx) Ground water regulation		State Level Committee on Ground Water resource
	(xxi) Adopting good irrigation practices		
	(xxii) Protection and management of Flood Plain Zones (FPZ)		No declared flood Plain Zone
	(xxiii) Rain water harvesting		1. Rain water harvesting implemented for Schools and government buildings 2. Incorporated in building By-laws & implemented
	(xxiv) Maintaining minimum environmental flow of river		Perennial
	(xxv) Plantation on both sides of the river		Proposal send to the Government
	(xxvi) Setting up biodiversity parks on flood plains by removing encroachment		Matter of encroachment is pending in the Supreme Court.

IDENTIFIED DRAINS CONTRIBUTING TO POLLUTION OF UMKHRAH RIVER

1. Wah Demthring Stream
2. Lapalang Stream near Bridge
3. Lapalang Stream
4. Umpling Drain
5. Umpling Stream
6. Gora Line Stream
7. Wah Kdait Drain
8. Wah Thangsniang stream
9. Pomdngiem Stream
10. Oakland Drain
11. Lawmali Drain
12. Wahingdoh- Raimohan Drain
13. Riatsamthiah, Wahingdoh
14. Jaiaw Drain
15. Mawlai Drain
16. Mawlai Phudmuri Stream
17. Jaiaw Lumsyntiew Drain
18. Wah Disoi Drain
19. Polo Drain1
20. Polo Drain2

IDENTIFIED DRAINS CONTRIBUTING TO POLLUTION OF UMSHYRPI RIVER

1. Wah Dienglieng
2. Stream at Fish Dale
3. Drain Near Woodland Hospital
4. Wahkdait at Malki
5. Malki Stream (near Seven Set School)
6. Wah Risa Stream
7. Wah Kynrud stream
8. Umsokhlur Stream
9. Wah Mawlong Stream
10. Umjasai stream
11. Lummawbah Stream
12. Mawprem Drain

Industrial Effluent Gap for Umkhrach River:

Sl. No	Name of Industry	Category	Water Usage (KLD)	Quantum of Waste water (KLD)	Status of ETPs	Capacity of ETP (KLD)	Gap Analysis
1	Supercare Hospital, Demthring, East Khasi Hills District	Red category	50	40	ETP Installed	45	-
2	Bethany Hospital, Nongrim Hills, East Khasi Hills District	Red category	37.5	30	ETP Installed	30	-
3	The Children's Hospital, Pohkseih, East Khasi Hills District	Red category	31.25	25	ETP Installed	30	-
4	Frank Yamaha, Nongthymmai, Shillong, EKH	Water Polluting/Small Scale	10	8	ETP Installed	10	-
5	B. Kharmawphlang, Lower Nongrim Hills, Shillong, EKH	Water Polluting/Small Scale	0.625	0.5	ETP Installed	1	-
6	Servicing Centre, Jiengkieng, Nongrim Hills, Shillong, EKH	Water Polluting/Small Scale	1.25	1	ETP Installed	2	-
7	Yalana Hotel, Laitumkhrach, Shillong	Water Polluting/Small Scale	31.25	25	ETP Installed	30	-
8	Hotel Highway Inn, Laitumkhrach, Shillong	Water Polluting/Small Scale	12.5	10	ETP Installed	10	-
9	Prakash Hotel and Restaurant Laitumkhrach, Shillong	Water Polluting/Small Scale	10	8	ETP Installed	10	-
10	Bansara Eye Care Hospital, Laitumkhrach, East Khasi Hills	Red	6.25	5	ETP	6	-

	District	category			Installed		
11	Little Chef Bakery, Laitmukhrah Shillong, EKH	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
12	Iamon Servicing Centre, Laitmukhrah, Shillong, Ekh	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
13	M/s Volga Mistan Bhandar, Laitumkhrah Bazar, Shillong	Water Polluting/S mall Scale	2.5	2	ETP Installed	5	-
14	M/s Hotel Ponisuk, Laitumkhrah, Shillong	Water Polluting/S mall Scale	37.5	30	ETP Installed	35	-
15	M/s Neolith Restaurant, Motphran, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	6	-
16	M/S Splendid Restaurant, Iewduh, Shillong	Water Polluting/S mall Scale	2.5	2	ETP Installed	5	-
17	M/s Palace Restaurant Motphran, Shillong, East Khasi Hills	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
18	J.S Bakery & Confectionery, Jaiaw, Langsnin g, Shillong, EKH	Water Polluting/S mall Scale	3.75	3	ETP Installed	5	-
19	R. Car Wash, Mawlai Nongpdeng, Shillong, EKH	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
20	New Hope Restaurant(EKH), Barik, Shillong	Water Polluting/S mall Scale	2.5	2	ETP Installed	3	-
21	M/s WHITE ORCHID GUEST HOUSE, Upper Laachumiere	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-

22	M/s BEST HOLIDAY INN GUEST HOUSE, Upper Lachumiere, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
23	M/s ELDORADO GUEST HOUSE, Lummawrie, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
24	M/s WOODLAND GUEST HOUSE, Lachumiere, Shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
25	RB'S Bakery, Police Bazar, Shillong, EKH	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
26	Catherine Mynsong Motor Works, Keating Road Shillong, EKH	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
27	Goenka Engineering Works, Keating Road, Shillong, EKH	Water Polluting/S mall Scale	12.5	10	ETP Installed	12	-
28	M/s Eden Restaurant, Next to Star Plaza Shopping Complex Police Bazar Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
29	M/s Chennai Junction, Near Khyndailad Police Bazar, Shillong	Water Polluting/S mall Scale	3.75	3	ETP Installed	5	-
30	M/s Oriental Restaurant & Bar, Police Bazar, Shillong	Water Polluting/S mall Scale	3.75	3	ETP Installed	5	-
31	M/s Regal Restaurant, D'Mar Shopping Complex Police bazar, Shillong.	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
32	M/s Palace Centre Point, Police Bazar, Centre Point Building, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
33	M/s Hotel Suruchi, Police Bazar, Shillong	Water Polluting/S	12.5	10	ETP Installed	10	-

		mall Scale					
34	M/S City Hut Family Dhaba, Oakland, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
35	M/S Bamboo Hut Restaurant, Kachari Road, Raps Mansion, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
36	M/s Barbeque Chinese Restaurant, Starline Complex, G.S Road, Police Bazar, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	6	-
37	M/s sharma Tea Stall, Umsohsun Road, Shillong	Water Polluting/S mall Scale	3.75	3	ETP Installed	5	-
38	M/s Sharma Bhojanalaya, Umsohsun Road, Shillong	Water Polluting/S mall Scale	3.75	3	ETP Installed	5	-
39	Great Wall Restaurant, Heri Complex, Thana Road, Police Bazar, Shillong	Water Polluting/S mall Scale	2.5	2	ETP Installed	3	-
40	M/s Rice Bowl Restaurant, Glory's Plaza, Police Bazar, Shillong	Water Polluting/S mall Scale	1.25	1	ETP Installed	1	-
41	M/s Anupama Restaurant, Police Bazar, Shillong	Water Polluting/S mall Scale	2.5	2	ETP Installed	3	-
42	M/s Annapurna Restaurant, Police Bazar, Thana Road Shillong	Water Polluting/S mall Scale	2.5	2	ETP Installed	3	-
43	M/s Vaishali Restaurant, Thana Road, Shillong	Water Polluting/S mall Scale	2.5	2	ETP Installed	3	-
44	M/s Subhujan Restaurant, Quinton Road, Police Bazar,	Water Polluting/S	3.75	3	ETP	3	-

	Shillong	mall Scale			Installed		
45	Kaochen Restaurant, Umsohsun,GS Road, Shillong	Water Polluting/S mall Scale	2.5	2	ETP Installed	2	-
46	MAA KALI HOTEL, Police Bazar,Shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
47	Hong Kong Restaurant Police Bazar, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
48	- AMM CEE CAFÉ FAST FOOD, Jail Road,Shillong	Water Polluting/S mall Scale	1.25	1	ETP Installed	2	-
49	TIBET KITCHEN RESTAURANT,Police Bazar,Shillong	Water Polluting/S mall Scale	2.5	2	ETP Installed	2	-
50	Delhi Mistan Bhandar (EKH), Police Bazar, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	8	-
51	EEE CEE Restaurant Police Bazar Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	12	-
52	M/s HOTEL INDIANA,Police Bazar,Shillong(Proprietor Kubir Singh	Water Polluting/S mall Scale	3.75	3	ETP Installed	5	-
53	M/s GOLDEN EARTH HOTEL INDIA LTD, Thana Road, Police Bazar, Shillong	Water Polluting/S mall Scale	5	4	ETP Installed	5	-
54	M/s THE ZARA RESIDENCY,Keating Road, Police Bazar, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
55	M/s HOTEL HERITAGE,Police Bazar, EKHD	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-

56	M/S HOTEL RAJTILAK , JAIL ROAD, SHILLONG	Water Polluting/S mall Scale	3.75	3	ETP Installed	5	-
57	M/S SWASTIK HOTEL, M.T.C. BUILDING, JAILROAD SHILLONG	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
58	M/S HOTEL UTSAV, POLICE BAZAR	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
59	M/S HOTEL MEGHALAYA, Police Bazar	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
60	M/S HOTEL NATRAJ	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
61	M/S AMIT SINGHANIA	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
62	M/S HOTEL GOLDEN PEAK, "The Quad"	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
63	M/S ATITHI GUEST HOUSE	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
64	M/S CITY VIEW INN	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
65	M/S HOTEL J.K. INTERNATIONAL	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
66	M/S DELHI HOTEL	Water Polluting/S mall Scale	2.5	2	ETP Installed	3	-
67	M/S HOTEL EMBASSY, Mr. S.S.DIDDAN	Water Polluting/S	18.7 5	15	ETP Installed	15	-

		mall Scale					
68	M/S HOTEL ELGIN , Mr. B.N.S. DIDDAN	Water Polluting/S mall Scale	25	20	ETP Installed	20	-
69	M/S RAJHANS HOTEL,Upper Jail Road	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
70	M/S HOTEL SERENE, MD. HABIB	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
71	M/S SHAURYA INN, POLICE BAZAR	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
72	M/S HOTEL MONSOON, R.H.LONGANI,	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
73	M/S NEW STAY IN GUEST HOUSE, Keating Road,Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
74	EEE CEE HOTEL, Khyndailad, Police Bazaar, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
75	M/s HOTEL SAPPHIRE, Keating Road, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
76	M/s LADY BIRD LODGE, Umsohsun,Shillong	Water Polluting/S mall Scale	18.7 5	15	ETP Installed	20	-
77	M/S AVISAAR, D.DAS & Associates, 1st Floor MTC Bldg.	Water Polluting/S mall Scale	3.75	3	ETP Installed	5	-
78	M/s Hotel Alpine Continental, Thana Road, Shillong	Water Polluting/S mall Scale	25	20	ETP Installed	20	-

79	M/s Hotel Hill Star, Police Bazar, Near Dreamland Cinema Hall, Shillong	Water Polluting/S mall Scale	18.75	15	ETP Installed	20	-
80	M/s Greenland Hotel, Police Bazar, Shillong,	Water Polluting/S mall Scale	12.5	10	ETP Installed	12	-
81	M/S Hotel Seven Sisters, Police Bazar, Shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
82	M/S Hotel Broadway, G.S.Road, Police Bazar, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
83	M/s Baba Tourist Lodge, Police Bazar, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
84	M/S Hotel Centre Point, Police Bazar, shillong	Water Polluting/S mall Scale	50	40	ETP Installed	45	-
85	M/S Hotel Rainbow above Lila Bros, Police Bazar, shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
86	The Earle Holiday Home, Oakland, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
87	M/S Anand Hotel, Quinton Road Shillong.	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
88	M/s Garden Hotel, Quinton Road, Police Bazar, Shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
89	M/s Godwin Hotel, Police Bazar, Shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
90	M/s Hotel Lotus, Police Bazar, G.S Road, Shillong	Water Polluting/S	7.5	6	ETP Installed	10	-

		mall Scale					
91	M/s Hotel Shubham, Police Bazar, G.S Road, Shillong	Water Polluting/S mall Scale	5	4	ETP Installed	5	-
92	PAYAL TOURIST HOTEL, Thana Road, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
93	Stay Inn Guest House, Keating Road, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
94	Assembly Hotel and Restaurant, Police Bazar, Shillong	Water Polluting/S mall Scale	18.75	15	ETP Installed	20	-
95	Hotel Grace, Jail Road, Shillong	Water Polluting/S mall Scale	18.75	15	ETP Installed	15	-
96	Ambassador Hotel Police Bazar, Shillong, East Khasi Hills	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
97	HOTEL BLUEPINE, Gulista Market, G.S.Road, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
98	Hotel Lake View Inn, Police Bazar, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
99	HOTEL ANURADHA, Thana Road, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
100	HOTEL BRIWEL, Quinton Road, Shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
101	Ashutosh Inn-HOTEL, Mirrulah Building, Police Bazar, Shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-

10 2	PEGASUS Crown (EKH), Police Bazar, Shillong	Water Polluting/S mall Scale	18.7 5	15	ETP Installed	15	-
10 3	Hotel Santineketan (EKH), Police Bazar, Shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
10 4	Hotel Magnum(EKH), Police Bazar, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
10 5	Hotel Pine Borough, Police Bazar	Water Polluting/S mall Scale	18.7 5	15	ETP Installed	15	-
10 6	M/s Hotel Hariom, Quinton Road, Police Bazar, Shillong	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
10 7	M/s R.K.'s CITY HUB HOTEL - Keating Road,Shillong,East Khasi Hills	Water Polluting/S mall Scale	10	8	ETP Installed	10	-
10 8	M/S SILK ROUTE HOTEL AND RESORT PVT. LTD.,Keating Road,Shillong,East Khasi Hills	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
10 9	M/s TRAVELLER'S BED & BREAKFAST,Buddhist Temple Road, Polo, Shillong	Water Polluting/S mall Scale	6.25	5	ETP Installed	5	-
11 0	M/S Majestic Hotel,R.H.Loungani , Polo Market	Water Polluting/S mall Scale	18.7 5	15	ETP Installed	15	-
11 1	The Shillong Club, M.G Road, Shillong	Water Polluting/S mall Scale	18.7 5	15	ETP Installed	15	-
11 2	M/S HOTEL ORCHID ANNEX, POLO ROAD, Shillong	Water Polluting/S mall Scale	12.5	10	ETP Installed	10	-
11	M/s PINWOOD HOTEL	Water	62.5	50	ETP	55	-

[illegible]

ANNEXURE-II

Industrial Effluent Gap for Umshyrpi River

Industrial Effluent Gap for Umshyrpi River							
Sl No	Name of Industry	Category	Water Usage (KLD)	Quantum of Waste water (KLD)	Status of ETPs	Capacity of ETP (KLD)	Gap Analysis
1	Nodrowell & Daughter, Bakers & Confectioners, Malki, Shillong, EKH	Water Polluting/Small Scale		5	ETP Installed	5	-
2	M/s Palomino Restaurant, Opp. St.Edmund School NH 44, Shillong	Water Polluting/Small Scale		5	ETP Installed	5	-
3	M/S SUNRISE GUEST HOUSE, LABAN	Water Polluting/Small Scale		15	ETP Installed	15	-
4	M/s BONNIE GUEST HOUSE, Laban, Shillong	Water Polluting/Small Scale		20	ETP Installed	25	-
5	M/s ROYAL HERITAGE TRIPURA CASTLE,Cleve Colony, Shillong	Water Polluting/Small Scale		40	ETP Installed	45	-
6	M/s HIGHWINDS GUEST HOUSE,Pine Mount Ridge, Barik, Shillong	Water Polluting/Small Scale		15	ETP Installed	20	-
7	M/s R.DOWN HILL CITY GUEST HOUSE,Laban, Shillong	Water Polluting/Small Scale		15	ETP Installed	20	-
8	R.P. Chest Hospital, Jhalupara, Shillong	Red category		90	ETP not installed	98 (proposed)	90 KLD
9	Civil Hospital, Shillong	Red category		250	ETP Installed	270	-
Total Gap							90 KLD

WATER QUALITY DATA OF UMKHRAH RIVER, SHILLONG – JANUARY 2020

Parameters	Umkhrah River at Demthring	Umkhrah River at Umkaliar	Umkhrah River near Slaughter House	Umkhrah River at Mawpdang Mawlai
<i>pH</i>	7.0	7.4	7.3	7.3
<i>DO mg/L</i>	3.0	5.9	2.9	3.1
<i>BOD mg/L</i>	31.0	15.0	35.0	28.0
<i>Faecal Coliform MPN/100ml</i>	25000	9400	33000	27000
<i>Total Coliform MPN/100ml</i>	49000	24000	94000	84000
<i>Fecal Streptococci MPN/100ml</i>	4800	4200	12000	12000

WATER QUALITY DATA OF DRAINS DISCHARGING INTO THE UMKHRAH RIVER – JANUARY 2020

Parameters→ Stream/Drain ↓	pH	Dissolved oxygen (mg/l)	BOD (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	Zn (mg/l)	Cr (mg/l)	Ni (mg/l)	Cu (mg/l)	As (mg/l)
<i>Wah Demthring Source - Demthring, Nongthymmai, Madanriting</i>	7.0	3.0	9.9	12000	8000	BDL	BDL	BDL	BDL	BDL
<i>Lapalang stream -Lapalang</i>	5.9	4.2	8.5	8000	5400	BDL	BDL	BDL	BDL	BDL
<i>Umpling Drain</i>	6.9	4.6	8.5	7000	4600	BDL	BDL	BDL	BDL	BDL
<i>Umpling stream</i>	7.0	4.5	8.8	5000	2400	BDL	BDL	BDL	BDL	BDL
<i>Goraline Stream (Laitumkhrah, Nongrim Hills)</i>	6.8	2.0	19.5	35000	22000	BDL	BDL	BDL	BDL	BDL
<i>Wah Kdait Drain Mawpat, Nongmynsong</i>	7.2	5.0	7.7	8900	5200	BDL	BDL	BDL	BDL	BDL
<i>Wah Thangsniang Stream Lawjynriew, Lumpyngngad, Jingkieng, Nongthymmai, Nongrim Hills, MES, Nongrimbah, Nongrimmaw, Demsieniong</i>	7.0	2.5	15.8	30000	24000	BDL	BDL	BDL	BDL	BDL
<i>Pomdngiew stream Laitumkhrah Lower Lachumiere, Laitumkhrah</i>	6.8	2.2	18.0	22000	18000	BDL	BDL	BDL	BDL	BDL
<i>Oakland Drain Botanical Garden, Ward's Lake, Oakland, Jail Road Bazar</i>	7.0	2.0	25.0	38000	26000	BDL	BDL	BDL	BDL	BDL
<i>Wahingdoh Raimohan Drain Keating Road, Mawlonghat, Bara Bazar (Motphran), Mawkhar,</i>	7.2	1.0	45.0	78000	42000	BDL	BDL	BDL	BDL	BDL

GROUND WATER QUALITY IN THE CATCHMENT OF UMKHRAH RIVER, SHILLONG – JANUARY 2020

Sampling Locations→ Parameters ↓	Drinking Water Norms as per IS 10500:2012	Borewell Wahingdoh	Deep Tube Well Dong Kamon, Nongmynsong	Well Forest Rest House, Forest Colony, Polo
pH	6.5-8.5	6.2	6.3	6.0
Conductivity (mg/l)	-	150.0	45.0	47.0
Turbidity (NTU)	1.0	1.0	1.0	1.0
Chloride (mg/l)	250.0	27.0	10.0	10.0
Alkalinity (mg/l)	200.0	28.0	18.0	16.0
Total Hardness (mg/l)	200.0	50.0	16.0	20.0
Nitrate-N (mg/l)	45.0	1.15	2.85	8.34
Iron (mg/l)	0.3	4.6	0.36	0.32
Total Coliform (MPN/100ml)	Shall not be detectable	6.2	<1.8	540
Faecal Coliform (MPN/100ml)	Shall not be detectable	Not Detected	<1.8	280
Zn (mg/l)	5.0 mg/l	BDL	BDL	BDL
Cr (mg/l)	0.05	BDL	BDL	BDL
Ni (mg/l)	0.02	BDL	BDL	BDL
Cu (mg/l)	0.05	BDL	BDL	BDL
As (mg/l)	0.01	BDL	BDL	BDL
Lead (mg/l)	0.01	BDL	BDL	BDL
Nickel (mg/l)	0.02	BDL	BDL	BDL
Cadmium(mg/l)	0.003	BDL	BDL	BDL
Manganese(mg/l)	0.1	BDL	BDL	BDL

WATER QUALITY DATA OF RIVER UMSHYRPI, SHILLONG – DECEMBER 2020

Parameters	River Umshyrpi near Law college at Dhankheti	River Umshyrpi near Umshyrpi bridge
<i>pH</i>	7.5	7.3
<i>DO mg/L</i>	3.1	5.8
<i>BOD mg/L</i>	24.0	17.0
<i>Feacal Coliform MPN/100ml</i>	27000	17000
<i>Total Coliform MPN/100ml</i>	79000	44000

WATER QUALITY DATA OF DRAINS/STREAMS DISCHARGING INTO THE UMSHYRPI RIVER- JANUARY 2020

Parameters→ Stream/Drain ↓	pH	Dissolved oxygen (mg/l)	BOD (mg/l)	Total Coliform (MPN/100ml)	Feecal Coliform (MPN/100ml)	Zn (mg/l)	Cr (mg/l)	Ni (mg/l)	Cu (mg/l)	As (mg/l)
<i>Stream at Fish Dale(Drain from Fire Brigade & Streamlet behind Fishery Office -Fruit Garden)</i>	6.6	6.2	13.2	5200	2000	BDL	BDL	BDL	BDL	BDL
<i>Woodland Hospital drain from Laitumkhrah</i>	6.8	3.0	50.0	85000	35000	BDL	BDL	BDL	BDL	BDL
<i>Wahkdait at Malki</i>	6.5	5.0	10.5	10000	4800	BDL	BDL	BDL	BDL	BDL
<i>Malki stream near Seven Set school (from RF-Malki Mission – Nongshilliang)</i>	6.8	5.0	10.2	25000	12000	BDL	BDL	BDL	BDL	BDL
<i>Um Risa stream from RF-Nongmalki-Crinoline Falls</i>	7.0	7.8	2.4	4200	2000	BDL	BDL	BDL	BDL	BDL
<i>Umkynrud stream from Lumparing village</i>	6.8	5.6	8.8	12000	5500	BDL	BDL	BDL	BDL	BDL
<i>Umsohkhur stream from Kench's Trace-Raid Laban</i>	6.8	4.5	30.0	35000	17000	BDL	BDL	BDL	BDL	BDL
<i>Ummawlong stream from Lawsohtun-Sericulture farm</i>	7.0	5.2	15.0	15000	8000	BDL	BDL	BDL	BDL	BDL
<i>Umjasai stream from Lawsohtun -Mahadev Khola (Defence land)</i>	6.5	5.4	15.6	18000	8500	BDL	BDL	BDL	BDL	BDL
<i>Stream from Lummawbah & Upper Shillong)</i>	6.8	2.8	30.0	22000	10000	BDL	BDL	BDL	BDL	BDL
<i>Mawprem Drain(Mawbah drain, Barapathar - Reid Chest Hospital</i>	6.5	2.2	40.5	75000	35000	BDL	BDL	BDL	BDL	BDL

GROUND WATER QUAKITY IN THE CATCHMENT OF UMSHYRPI RIVER AT, SHILLONG – JANUARY 2020

Sampling Locations→ Parameters ↓	<i>Drinking Water Norms as per IS 10500:2012</i>	Laban, Shillong Borewell	Deep Tube Well at Last Stop, Laban, Shillong
<i>pH</i>	6.5-8.5	5.9	4.4
<i>Conductivity (mg/l)</i>	-	114.0	49.0
<i>Turbidity (NTU)</i>	1.0	3.2	1.0
<i>Chloride (mg/l)</i>	250.0	7.0	12.0
<i>Alkalinity (mg/l)</i>	200.0	14.0	8.0
<i>Total Hardness (mg/l)</i>	200.0	26.0	16.0
<i>Nitrate-N (mg/l)</i>	45.0	3.7	1.5
<i>Iron (mg/l)</i>	0.3	1.0	0.54
<i>Total Coliform (MPN/100ml)</i>	Shall not be detectable	2	<1.8
<i>Faecal Coliform (MPN/100ml)</i>	Shall not be detectable	Not Detected	<1.8
<i>Zn (mg/l)</i>	5.0 mg/l	BDL	BDL
<i>Cr (mg/l)</i>	0.05	BDL	BDL
<i>Ni (mg/l)</i>	0.02	BDL	BDL
<i>Cu (mg/l)</i>	0.05	BDL	BDL
<i>As (mg/l)</i>	0.01	BDL	BDL
<i>Lead (mg/l)</i>	0.01	BDL	BDL
<i>Nickel (mg/l)</i>	0.02	BDL	BDL
<i>Cadmium(mg/l)</i>	0.003	BDL	BDL
<i>Manganese(mg/l)</i>	0.1	BDL	BDL

WATER QUALITY DATA OF DRAINS DISCHARGING INTO THE UMKHRAH RIVER – JANUARY 2020

Parameters→ Stream/Drain ↓	pH	Dissolved oxygen (mg/l)	BOD (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	Zn (mg/l)	Cr (mg/l)	Ni (mg/l)	Cu (mg/l)	As (mg/l)
<i>Wah Demthring Source - Demthring, Nongthymmai, Madanriting</i>	7.0	3.0	9.9	12000	8000	BDL	BDL	BDL	BDL	BDL
<i>Lapalang stream -Lapalang</i>	5.9	4.2	8.5	8000	5400	BDL	BDL	BDL	BDL	BDL
<i>Umpling Drain</i>	6.9	4.6	8.5	7000	4600	BDL	BDL	BDL	BDL	BDL
<i>Umpling stream</i>	7.0	4.5	8.8	5000	2400	BDL	BDL	BDL	BDL	BDL
<i>Goraline Stream (Laitumkhrah, Nongrim Hills)</i>	6.8	2.0	19.5	35000	22000	BDL	BDL	BDL	BDL	BDL
<i>Wah Kdait Drain Mawpat, Nongmynsong</i>	7.2	5.0	7.7	8900	5200	BDL	BDL	BDL	BDL	BDL
<i>Wah Thangsniang Stream Lawjynriew, Lumpyngngad, Jingkieng, Nongthymmai, Nongrim Hills, MES, Nongrimbah, Nongrimmaw, Demsieniong</i>	7.0	2.5	15.8	30000	24000	BDL	BDL	BDL	BDL	BDL
<i>Pomdngiew stream Laitumkhrah Lower Lachumiere, Laitumkhrah</i>	6.8	2.2	18.0	22000	18000	BDL	BDL	BDL	BDL	BDL
<i>Oakland Drain Botanical Garden, Ward's Lake, Oakland, Jail Road Bazar</i>	7.0	2.0	25.0	38000	26000	BDL	BDL	BDL	BDL	BDL
<i>Wahingdoh Raimohan Drain Keating Road, Mawlonghat, Bara Bazar (Motphran), Mawkhar,</i>	7.2	1.0	45.0	78000	42000	BDL	BDL	BDL	BDL	BDL

<i>Police Bazar, Umsohsun, Jail Road, Wahiingdoh</i>										
<i>Lawmali Drain Ganesh Das Hospital, Pasteur Institute</i>	7.1	2.6	22.0	28000	17400	BDL	BDL	BDL	BDL	BDL
<i>Raitsamthiah Wahiingdoh Drain</i>	6.8	1.2	40.0	45000	25000	BDL	BDL	BDL	BDL	BDL
<i>Jaiaw Drain Raitsamthiah</i>	6.9	1.5	33.0	44000	22000	BDL	BDL	BDL	BDL	BDL
<i>Mawlai Stream Mawlai Phudmawri, Nongmali</i>	7.1	1.9	29.0	18000	11000	BDL	BDL	BDL	BDL	BDL
<i>Mawlai Phudmawri Drain- Mawlai Phudmawri, Slaughter House Areas wastes and</i>	6.6	0.5	50.0	62000	37000	BDL	BDL	BDL	BDL	BDL
<i>Jaiaw lumsyntiew drain K.J.P Synod Hospital, Jaiaw</i>	6.9	1.9	28.0	24000	15000	BDL	BDL	BDL	BDL	BDL
<i>Wah Disoi Drain Mawprem, Garikhana, Lama Villa, Jaiaw Langsning, Slaughter House Area, Naspatighari</i>	7.2	1.7	32.0	38000	20000	BDL	BDL	BDL	BDL	BDL
<i>Polo Drain 1</i>	6.8	1.0	50.0	99000	48000	BDL	BDL	BDL	BDL	BDL
<i>Polo drain 2</i>	7.3	1.1	48.0	80000	40000	BDL	BDL	BDL	BDL	BDL