BIHAR STATE POLLUTION CONTROL BOARD
Parivesh Bhawan, Patliputra Industrial Area, P.O. Sadakat Ashram, Patna–800010
EPABX-0612-2261250/2262265, Fax-0612-2261050

Patna, dated- 06/02/23

Ref. No. 379

From,
S. Chandrasekar, IFS,
Member Secretary.

To,
The Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
Delhi-110032.

Sub:-**Submission of monthly progress report for the month of December, 2022 by State as per orders of the Hon'ble NGT dated- 24.09.2020 in O.A. No.673/2018.**

Sir,

Please find herewith the monthly progress report for the month of December, 2022 in compliance with the order of the Hon'ble NGT dated-24.09.2020 in O.A. No.673/2018 for needful action.

Encl: As above.

Yours faithfully,
Sd/-
(S. Chandrasekar)
Member Secretary.

Patna, dated-
Memo No.
Copy to Sri D.P. Mathuria, Executive Director (Tech.), National Mission for Clean Ganga (NMCG), First Floor, Major Dhyan Chad National Stadium, India Gate, New Delhi-110002 for information and necessary action.

Sd/-
(S. Chandrasekar)
Member Secretary.

Patna, dated-
Memo No.
Copy to the Secretary, Urban Development & Housing Department, Govt. of Bihar for information and necessary action.

Sd/-
(S. Chandrasekar)
Member Secretary.

Patna, dated-
Memo No.
Copy to the Principal Secretary, Department of Environment, Forest & Climate Change, Govt. of Bihar for information and necessary action.

06/2/23
(S. Chandrasekar)
Member Secretary.

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 Bihar

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately: **104,099,452**

(Urban Population: 1,17,58,016 (11.29%) & Rural Population : 9,23,41,436 (88.71%) as per the census 2011).

I. Estimated Sewage Generation (MLD): **1100 MLD (Approx.) from urban areas.**

II. **Details of Sewage Treatment Plant:**

- Existing no. of STPs and Treatment Capacity (in MLD): **07 STPs - Total 224.5 MLD: (Beur STP (43 MLD), Karmalichak STP (37 MLD), Saidpur STP (60 MLD), Phari STP (60 MLD), Barh I&D and STP (11 MLD), Sonepur I&D and STP (3.5 MLD) & Sultanganj I&D and STP (10 MLD)).**
- Capacity Utilization of existing STPs: **Total 73.83 MLD: (Beur STP (13.38 MLD), Karmalichak STP (26.67 MLD), Saidpur STP (19.48 MLD), Phari STP (5 MLD), Barh I&D and STP (3 MLD), Sonepur I&D and STP (1 MLD) & Sultanganj I&D and STP (5.3 MLD)).**
- MLD of sewage being treated through Alternate technology: **Till not started after rainy season.**
- Gap in Treatment Capacity in MLD: **1100 – 73.83 treatment through STPs = 1026.17 MLD.**
- No. of Operational STPs: **07.**
- No. of Complying STPs: **03, another 04, sampling will start from January 2023.**
- No. of Non-complying STPs: **00.**
- **06 projects have been completed with more than 90% work.**

Details of each existing STP in the State

No.	Location	Geo-Location	Installed STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	**Beur STP (New)**	**25.574714 85.097250**	**43 MLD**	**13.38 MLD**	**Operational**	Yes
2	**Karmalichak STP(New)**	**25.572441 85.232034**	**37 MLD**	**26.67 MLD**	**Operational**	Yes
3	**Saidpur STP(New)**	**25.611506 85.164618**	**60 MLD**	**19.48 MLD**	**Operational**	Yes
4	**Phari STP**		**60 MLD**	**5 MLD**	**Operational**	
5	**Barh I&D and STP**		**11 MLD**	**3 MLD**	**Operational**	
6	**Sonepur I&D and STP**		**3.5 MLD**	**1 MLD**	**Operational**	
7	**Sultanganj I&D and STP**		**10 MLD**	**5.3 MLD**	**Operational**	
		Total	**224.5 MLD**	**73.83 MLD**		

Details of Completed Project

1	Phari Zone IV A Sewage Network	**Completed in November 2021**

Ongoing Projects: -

Sl. No.	Project Name	Physical Progress till 04 April 2022 (%)	Physical Progress till 06 June 2022 (%)	Physical Progress till 06 July 2022 (%)	Physical Progress till 06 August 2022 (%)	Physical Progress till 05 September 2022 (%)	Physical Progress till 04 November 2022 (%)	Physical Progress till 03 December 2022 (%)	Physical Progress till 04 January 2023 (%)	Incremental Physical Progress in last month (%)	Revised Timeline (as per BUIDCo)
1.	Beur Sewage Network	97.6	99.1	99.3	99.3	99.7	99.98	99.98	99.98	--	**31.10.2022**

Sl. No.	Project Name	Physical Progress till 04 April 2022 (%)	Physical Progress till 06 June 2022 (%)	Physical Progress till 06 July 2022 (%)	Physical Progress till 06 August 2022 (%)	Physical Progress till 05 September 2022 (%)	Physical Progress till 04 November 2022 (%)	Physical Progress till 03 December 2022 (%)	Physical Progress till 04 January 2023 (%)	Incremental Physical Progress in last month (%)	Revised Timeline (as per BUIDCo)
2.	Saidpur Sewage Network	94.6	98.2	98.5	98.5	99.1	99.6	99.7	99.8	**0.1**	**31.10.2022**
3.	Karmali Chak Sewage Network	89.03	91.22	93.20	94.04	94.75	95.63	97.07	97.56	**0.49**	**31.03.2022**
4.	Phari Zone V Sewage Network	80.44	90.92	92.99	94.03	95.23	95.6	96.94	98.19	**1.25**	**31.10.2022**
5.	Naughachia I&D and STP	95.8	97.12	99.02	99.32	99.7	99.80	99.90	99.9	**--**	**30.09.2022**
6.	Mokama I&D and STP	89.5	90.5	91	91	91	91.0	91.5	92.5	**1.0**	**30.09.2022**
7.	Baktiyarpur I&D and STP	57.5	68.5	71.5	71.95	77.5	84.0	85.0	85.5	**0.5**	**31.10.2022**
8.	Maner I&D and STP	30.14	35.15	38.85	39.85	41.3	41.78	41.78	41.85	**0.07**	--
9.	Digha Zone STP & Sewer Network	6.85	8.77	9.13	10.35	10.53	11.77	12.74	14.49	**1.75**	**30.04.2023**
10.	Kankarbagh Zone STP & Sewer Network	3.54	3.54	4.75	7.69	7.69	7.69	7.69	7.77	**0.08**	**30.04.2023**
11.	Begusarai STP & STP Network	49.3	54.2	58.8	62.2	65.8	67.88	68.4	71.2	**2.8**	**31.03.2023**
12.	Chhapra I&D and STP	74.3	76.5	78	80.2	83.2	89.80	90.0	90.2	**0.2**	**16.11.2022**
13.	Hajipur STP &	42.5	58.79	62.99	64	67.35	68.90	--	70.35	**--**	**02.07.2023**

Sl. No.	Project Name	Physical Progress till 04 April 2022 (%)	Physical Progress till 06 June 2022 (%)	Physical Progress till 06 July 2022 (%)	Physical Progress till 06 August 2022 (%)	Physical Progress till 05 September 2022 (%)	Physical Progress till 04 November 2022 (%)	Physical Progress till 03 December 2022 (%)	Physical Progress till 04 January 2023 (%)	Incremental Physical Progress in last month (%)	Revised Timeline (as per BUIDCo)
	STP Network										
14.	Fatua I&D and STP	--	--	--	--	--	2.20	16.5	18.89	**2.39**	**23.11.2022**
15.	Danapur I&D and STP	22.25	52.7	54.40	58	60	63.5	65.0	68.77	**3.77**	**23.11.2022**
16.	Phoolwarisarif I&D and STP	--	15.7	17	35	35	51.32	53.0	58.65	**5.65**	**23.11.2022**
17.	Bhagalpur I&D and STP	--	--	--	4.51	4.58	4.58	4.58	11.52	**6.94**	**06.11.2023**
18.	Munger I&D and STP	21	27	30.80	33.15	39.15	45.15	50.43	56.50	**6.07**	**17.10.2023**

Tendered Projects

Sl. No.	Project Name	Capacity	Progress
1.	Barahiya I&D and STP	6 MLD	3 bidders participated in the retender. Technical evaluation is in process.
2.	Kahalgaon I&D and STP	6 MLD	As per direction of NMCG, Estimate on current SOR was prepared for amount of Rs 67.70 Cr. and has been sent to SPMG for approval on 14.07.22. NMCG given direction on 30.11.2022 for bidding of Kahalgaon I&D and STP scheme with an estimated cost of Rs 46 Cr. The AA&ES will be issued after price discovery and bidding process is completed.
3.	Dehri I&D and STP	21 MLD	Financial bid open on 30.09.2022. Financial bid evaluation is under process
4.	Suupaul I&D and STP	12.1 MLD	Bid Document preparation and approval from State Govt. are under process.
5.	Ramnagar I&D	9 MLD	NIT floated, last date of bid submission is 16.12.2022

Sl. No.	Project Name	Capacity	Progress
	and STP		
6.	Narkatiyaganj I&D and STP	7 MLD	NIT floated, last date of bid submission is 23.12.2022

Details of proposed STPs in the State

Status of DPR as on 31.12.2022

Sl. No.	Name of Scheme	Population	STP Capacity	SOR	Amount (in Cr)	Land Status	Status
1	2	3	4	5	6	7	8
1	Fecal Sludge Septage Management Dighwara	32741	24 kl	2022	2.97		Observation received by TPA which sent to REPL for compliances
2	Fecal Sludge Septage Management Manihari	26629	18 kl	2022	5.5		Observation received by TPA which sent to REPL for compliances
3	Fecal Sludge Septage Management Teghara	56234	26 kl	2022	4.11		Compliances sent to TPA IIT Roorkee on 05.12.2022
4	I&D Works and STP Arwal	51849	3.5 MLD	2020	50.19		DPR has been submitted to NMCG.NMCG sent this DPR to NIT Patna for TPA.
5	I&D Works and STP Daudnagar	52364	10.1 MLD	2022	35.06		DPR has been sanctioned in last EC meeting
6	I&D Works and STP Darbhanga	296039	22.6 & 1.7 MLD	2022	101.41		DPR has been submitted to NMCG
7	I&D Works and STP Kishanganj	105782	10.5, 3.43, 2.94 & 3.1 MLD	2022	109.46		Observation received by TPA IIT Patna which sent to NEERI for compliances.NEERI has committed to provide compliance till 05.01.2023

8	I&D Works and STP Raxaul	55536	2.5, 2.5, 3.5 & 3.5 MLD	2020	87.62		DPR has been submitted to NMCG.NMCG sent this DPR to IIT, Roorkee for TPA.
9	I&D Works and STP Saharsha	156540	17.4 & 13.05 MLD	2022	110.76		Compliances sent to TPA NIT Patna on 09.12.2022
10	I&D Works and STP Madhepura	54472	10.73 MLD	2022	47.28		NEERI has committed to provide compliance till 05.01.2023
11	I&D Works and STP Motihari	126158	4.6,6.3, 5.8 & 6.3 MLD	2022	164.31		DPR has been sanctioned in last EC meeting
12	I&D Works and STP Jamui	87357	6.8 & 9.5 MLD	2022	56.58		Compliances sent to TPA NIT Patna on 02.01.2023
13	I&D Works and STP Lakhisarai	99979	21 MLD	2022	88.55		DPR May be considered in Coming EC meeting
14	I&D Works and STP Bagaha	112634	11 MLD	2022	85.41		DPR may be sent for TPA
15	I&D Works and STP Gopalganj		11 MLD	2022	134.21		DPR may be sent for TPA
16	I&D Works and STP Samastipur		6 MLD	2022	61.71		DPR may be sent for TPA
DPR under preparation							
17	I&D and STP Ara						DPR under preparation.
18	I&D and STP Betia						DPR under preparation.
19	Gaya sewerage Network and STP project						DPR has been submitted to NMCG on 02.12.2022
20	I&D Works and STP Katihar						DPR under preparation.
21	I&D Works and STP Jogbani						DPR under preparation.
22	I&D and STP Jamalpur						As discussed with SPMG,NMCG wants to make a FSTP in Jamalpur town as a Model in Bihar
23	I&D and STP Buxar						Revised estimate sent to TPA IIT Roorkee on 16.12.2022
24	I&D and STP Purnia						Last date of bid submission is 03.01.2023 for preparation of DPR
25	I&D and STP						Last date of bid submission is 03.01.2023

	Sasaram						for preparation of DPR
26	I&D and STP Aurangabad						Last date of bid submission is 03.01.2023 for preparation of DPR
27	I&D and STP Jehanabad						Last date of bid submission is 03.01.2023 for preparation of DPR
28	I&D and STP Nawada						Last date of bid submission is 03.01.2023 for preparation of DPR
29	I&D and STP Sitamarhi						Last date of bid submission is 03.01.2023 for preparation of DPR
30	I&D and STP Araria						Last date of bid submission is 03.01.2023 for preparation of DPR
31	I&D and STP Benipur						Last date of bid submission is 03.01.2023 for preparation of DPR
32	I&D and STP Barauni						Last date of bid submission is 03.01.2023 for preparation of DPR
33	I&D and STP Bihat						Last date of bid submission is 03.01.2023 for preparation of DPR
34	I&D and STP Sheikhpura						Last date of bid submission is 03.01.2023 for preparation of DPR
35	I&D and STP Khagaria						Revised estimate sent to NMCG on 16.12.2022

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
Attached as Annexure-1.				

III. **Details of Industrial Pollution:**

- No. of industries in the State: **11,584. (This includes brick kiln, Sand mining, Building Projects and other industries having consent from BSPCB.)**
- No. of water polluting industries in the State: **250** (**The Board has identified a total number of 250 water polluting industries including 78 Grossly Polluting Industries (GPIs)).**
- Quantity of effluent generated from the industries in MLD: **35 MLD approx.**

- Quantity of Hazardous Sludge generated from the Industries in TPA: **7716 MT (Incinerable: 79 MT, Land fillable 181 MT, Recyclable including other waste (Iron Scraps): 6681 MT, Co-processing in cement industries: 773 MT).**
- Number of industrial units having ETPs: **229**
- Number of industrial units connected to CETP: **Nil.**
- Number and total capacity of ETPs (details of existing/under construction/proposed): **96 MLD approx.**
- Compliance status of the ETPs: **224.**
- Number and total capacity of CETPs (details of existing/ under construction/ proposed): **01 CETP proposed at *Hajipur Industrial Area Vaishali.***
- Status of compliance and operation of the CETPs: **Not applicable at present.**

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)

IV. **<u>Solid Waste Management:</u> Details attached as Annexure - 2**

- Total number of Urban Local Bodies and their Population: **142 ULBs & Population: 1.09 Cores.**
- Current Municipal Solid Waste Generation:
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc:
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%):
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction):
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source:
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology):

- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.:
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers:
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline

V. **Bio-medical Waste Management:**

- Total Bio-medical waste generation: **20548.81 Kg/day.**
- No. of Hospitals and Health Care Facilities: **26478.**
- Status of Treatment Facility/ CBMWTF: **04 CBWTF (33600 Kg/day)**

VI. **Hazardous Waste Management:**

- Total Hazardous Waste generation:**7716 MTA (Incinerable: 79 MT, Land fillable 181 MT, Recyclable including other waste(Iron Scraps)): 6681 MTA**
- No. of Industries generating Hazardous waste: **191**
- Treatment Capacity of all TSDFs: **Nil**
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:
- Details of on-going or proposed TSDF: **M/s Ramky Environ Engineers Ltd., at Mahui, Dist-Bhojpur is in process of installation of TSDF.**

VII. **Plastic Waste Management: Attached as Annexure-3.**

- Total Plastic Waste generation:
- Treatment/ Measures adopted for reduction or management of plastic waste:

- Details of Alternate Treatment Technology being adopted by the State/UT: **In-situ treatment through bio-remediation of drains joining Ganga and other polluted rivers for 89 drains. Work stopped after rainy season and not started till date.**

VIII. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment:

IX. Details of Nodal Officer appointed by Chief Secretary in the State/UT: **Principal secretary, Urban Development & Housing Department,GoB has been appointed as Nodal officer, by the Chief Secretary, Bihar for the matter of Hon'ble NGT OA no 673/2018 as per the Notification of Deptt, of Env., Forest & Climate Change, GoB. Paryavaran/Van(mu).28/2019-140 (E) dated 17.02.2021.**

X. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT: Regular review meetings are conducted under the chairmanship of the Chief Secretary, Bihar to ensure the compliances of orders of the Hon'ble NGT on different environmental issues including orders in O.A. No. 200/2014 & others**.**

Meeting held on 02/03/2022 under the chairmanship of the Chief Secretary Bihar to review compliances of the directions of the Hon'ble NGT in different OA nos.

07th River Rejuvenation Committee (RRC) meeting held on 20/09/2022 under the chairmanship of the Principle Secretary DoEF&CC, GoB. to review compliances of the directions of the Hon'ble NGT in O.A. No. 673/2018.

XI. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; **Ground water quality report attached as Annexure-4 (Data available *only for the Ganga river, due to unavoidable reason sample not collected*), Details of drains along the river Ganga attached as Annexure-5 and latest water quality report of polluted river attached as Annexure-6.**

XII. Ground water regulation: **Government of Bihar has initiated drives for recharging of ground water by providing roof top rain water harvesting structures and construction of soak pits/recharge pits near public well, hand pump, tube well and other water bodies under Jal-Jeevan-Hariyali Abhiyan.**

Bihar Govt. has also notified The Bihar Ground Water (Regulation & Control of Development & Management) Act, 2006 for regulating and management of ground water. The authority may impose stipulated conditions for providing roof top rain water harvesting structures in the building plan in an area of the 1000 Sqm or more while according approval for construction.

XIII. Good irrigation practices being adopted by the State: **In order to enhance water use efficiency in water intensive crop, assistance is given for promotion of water saving tools/ technologies like sprinkler and drip irrigation, creation of farm ponds, efficient delivery and distribution system and adoption of agronomic practices like alternate row/ furrow irrigation, mulching, etc. Pradhan Mantri Krishi**

Sinchai Yojana also focuses on creating protective irrigation by harnessing rain water at micro level through 'Jal Sanchay' and 'Jal Sinchan' to insure 'Per Drop More Crop'. The state is implementing Pradhan Mantri Krishi Sinchai Yojana (Per Drop More Crop) for development of Micro Irrigation in Bihar during the year 2018-19 with the cost of Rs 133.00 Crore by providing 90% subsidy to all categories of Farmers under Drip Irrigation and 75% Subsidy to all categories of farmers under Sprinkler Irrigation. State Govt. is also implementing community Tube well Scheme for benefit of small and marginal farmers with 100 % subsidy to provide water source for installation of Drip Irrigation System under the State Plan. As Horticultural and Commercial crops like Sugarcane require heavy water during summer season, Drip Irrigation is highly beneficial because about 60% of conventional Irrigation water is saved under this system. The productivity of the crops under this system increases by about 25-30 % while cost of production decreases 30-35% in comparison to Conventional Irrigation System. Details attached as Annexure-7.

XIV. Rain Water Harvesting: **To ensure initiatives of drives for recharging of ground water by providing roof top rain water harvesting structures and construction of soak pits/recharge pits near public well, hand pump, tubewell and other water bodies under Jal-Jeevan-Hariyali Abhiyan.**

Imposion of condition for providing roof top rain water harvesting structures in the building plan in an area of the 1000 Sqm or more while according approval for construction.

XV. Demarcation of Floodplain and removal of illegal encroachments: **Considering densely populated northern plain terrain and mostly embanked river, the issue of demarcation of flood plain zone/buffer zone is not applicable in case of Bihar. In this connection a report on scientific study of flood plain zoning for the State is submitted by Water Resource Department, GoB., to National Mission for Clean Ganga vide their letter no. 296, dated 02.08.2021. As directed by the Hon'ble NGT in its order dated 13.08.2020 in the matter of O.A. no. 200/2014 is to look into by a joint committee of NMCG, MoJS and CPCB.**

XVI. Maintaining minimum e-flow of river: **Water Resource Department has taken steps for installation of new gauge stations and making arrangements for the discharge measurement throughout the year. Details attached as Annexure-8.**

XVII. Plantation activities along the rivers: **A team of Department of Environment, Forest & Climate Change, Govt. of Bihar official visited Yamuna bio-diversity park in Delhi and exploring its replication in the State.**

XVIII. Development of Biodiversity Park: **A team of Department of Environment, Forest & Climate Change, Govt. of Bihar official visited Yamuna bio-diversity park in Delhi and exploring its replication in the State.**

XIX. Reuse of Treated Water: **Work is under process.**

XX. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: **Harbaura river (Sikrahana) is selected as Model river.**

XXI. Status of Preparation of Action Plan by the 13 Coastal States: **Not applicable.**

XXII. Regulation of Mining Activities in the State/UT:

XXIII. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:

Status of Complete/Ongoing/Tendered Project of Schemes under Namami Gange program.

Annexure - 1

fnukd \& 04-01-2023 rd

Sr. No.	Status	Location	Project Name	STP Capacity (In MLD)	Sewer Network (In Km.)	Santioned Cost (Crore) GoI/GoB	Date of Sanction/ Date of AA&ES issue GoI/GoB	Date of NIT	Contract Price	Signing of Contract Contractors Name/ Date	Date of Completion (As per Agreement/ Projected by BUIDCo)	House Connection	During this month	Total Progress
1	Completed Project	Beur	Sewerage Treatment Plant	43	—	68.16 74.29	15-07-14 05-01-15	7 Aug 15	77.85 Cr. (C Cost- 47.25 Cr. and O&M Cost- 30.59 Cr.)	Voltas & GAA (JV) 31-03-17	05/10/2019 31.12.2019	—	Completed	Completed. Physical Progress - 100%, Financial Progress - (61.16 Cr.)
2		Saidpur	Sewerage Treatment Plant & Adjoining Network	60	55.10	184.93 201.57	01-04-15 26-11-14	21 Aug 15	188.186 Cr. (C Cost- 142.34 Cr. and O&M Cost- 45.84 Cr)	UEM & EMS (JV) 30-03-17	05.04.20 (EOT granted till Jan 2021	21360 21360	Completed	Completed. Physical Progress - 100 %, Financial Progress: - (173.13 Cr.)
3		Karmalichak	Sewerage Treatment Plant	37	—	77.04 83.97	15-07-14 05-01-15	7 Aug 15	73.61 Cr. (C Cost- 44.11 Cr. and O&M Cost- 29.50 Cr.)	Voltas & GAA(JV) 31-03-17	05/10/2019 31/03/2021	—	Completed	Completed. Physical Progress-100%, Financial Progress- (57.71 Cr.)
4		Pahari-Zone IV A (S)	Sewerage Zone IV A (South) of Pahari, Patna	—	87.69	184.86	22/05/2017	1 Sep 17	167.84Cr. (C Cost- 144.86 Cr. And O&M- 22.94 Cr.)	EMS Infra & Technocraft Ltd.11/05/18	29.05.21 (EOT granted till Oct 2021)	21300 21300	Completed	Completed. Physical Progress – 100% , Financial Progress - (204.35 Cr.)
5		Pahari STP	Sewerage Treatment Plant	60	—	191.62	19/05/2017	1 Sep 17	147.65 Cr. (C Cost- 84.20 Cr. And O&M- 63.44 Cr.)	VA Tech Wabag 09/05/2018	09.11.20 (EOT requested till Oct 2022)	—	Completed	Completed. Physical Progress - 100%, Financial Progress - (101.72 Cr.)
6		Sultanganj	I&D works and STP at Sultanganj	10	—	60.22	08-01-2017	30-12-17	63.51 Cr. (C Cost- 35.066 Cr. And O&M- 28.443 Cr.)	V.C.Project 14/9/2018	13.02.20 (EOT granted till 15 Aug 2021, Again EOT to be requested)		Trial Run Completed, Commissioning under progress. (HT Line in STP Completed in SPS under progress, Scada Completed, Installation of Lab under progress.)	Completed Physical Progress - 100% Financial Progress - (32.85 Cr.)
7		Barh	I&D works and STP at Barh	11	—	58.27	08-10-2017	22-06-18	53.90 Cr. (C Cost- 26.57 Cr. And O&M- 27.33 Cr.)	UEM India 22/10/2018	21.04.20 EOT to be requested.		Completed	Completed. Physical Progress - 99.90 % Financial Progress - (36.75 Cr.)
8		Sonepur	I&D and STP at Sonepur	3.5	3.6	30.93	14/09/2018	11-19	29.35 Cr. (C Cost- 14.20 Cr. And O&M- 15.16 Cr.)	S.G.Const & S.N.Enviro 04/06/2019	15.02.21 (EOT granted till Aug'22		Completed.	. Physical Progress - 100 % Financial Progress - (20.98 Cr.)
1	Ongoing Project	Saidpur	Sewerage Network	—	172.50	268.63 426.71	01-04-15 24-01-17	27 Aug 15	431.21 Cr. (C Cost- 399.55 Cr. And O&M Cost- 31.66 Cr.)	L&T 30-01-18	29.01.21 (EOT requested till Oct 2022)	7027 28118	Tapping of Existing Network - 6.59 Km Manhole - 8 Nos Property Chamber - 54 Nos House Connection - 107 Nos Ambedkar Colony SPS completed & commissioned. Bazar Samiti SPS completed & commissioned. Exhibition Road SPS completed & commissioned.	Pipe Laying - 117.4 km Tapping of Existing Network - 39.17 Km Manhole - 4210 Nos Property Chamber - 2960 Nos Road Restoration - 123.03 Km (including Trenchless & DI pipe) DI Rising Main - 6 Km House Connection - 7027 Nos Ambedkar Colony SPS completed & commissioned. Bazar Samiti SPS completed & commissioned. Exhibition Road SPS completed & commissioned Physical Progress – 99.80%, Financial Progress - (464.47 Cr.)
2		Beur	Sewerage Network	—	179.74	225.77 394.89	31-12-14 24-01-17	21 Aug 15	398.40 Cr. (C cost : 371.48 Cr and O &M Cost : 26.92 Cr)	L&T 30-03-17	5.04.20 (EOT requested till Oct 2022)	8752 15000	House Connection Pit completed- 34 nos House Hold connection completed - 96 0nos	Sewerage Network completed - 158 Km Manhole completed - 6395 nos. Road Restoration completed - 158 Km House Connection Pit completed- 8425 nos House Hold connection completed - 8752 nos Shifting and laying of 3.6 KM of underground electrical cable- 2.7 Physical Progress - 99.92 %, Financial Progress - (344.48 Cr.)
3		Karmalichak	Sewerage Network	—	96.54	277.42	16/03/2017	9 May 17	253.98 Cr. (C Cost- 241.02 Cr. And O&M- 12.96 Cr.)	VA Tech Wabag 11/05/2018	20.05.21 (EOT requested till Oct 2022)	32088 38168	Sewer Network - 0.557 5Km Manhole - 48 Nos House Connection Pit - 48 Nos House Connection - 538 Nos. SPS - Works for Intake channel is in progress. Road Restoration - 0.096 KM.	Sewer Network - 95.554 Km Manhole - 3578 nos Direct connection / House connection pit - 26292 nos Road Restoration 90.359 Km (Total 78.643 Km road restored in all respect and 11.62 Km comes in trenchless method) House Connection 32088 Nos SPS 01 No - Excavation of Intake channel in progress. Physical Progress - 97.56%, Financial Progress – (328.54 Cr.)
4		Pahari Zone-V	Sewerage scheme at Pahari Zone V, Patna	—	115.93	356.37	22/05/2017	1 Sep 17	364.90Cr. (C Cost- 318.18 Cr. And O&M- 46.72 Cr.)	Sapoor Pallonji 25/04/2018	24.04.21 (EOT requested till Oct 2022)	14261 22855	1.Sewer Network – 1.304 Km. 2.Tapping Work - 0.298 KM 3.Manhole- 104 Nos. 4.Property Chamber- 312 Nos. 5.Road Restoration- 0.866 Km. 6.House Connection- 545 Nos. 7.SPS-Civil Work Under Progress	1.Sewer Network – 102.414 Km. 2. Tapping Work - 3.464 Km 3.Manhole-3041 Nos. 4.Property Chamber- 11776 Nos. 5.Road Restoration-100.936 Km. 6.House Connection- 14261 Nos. 7.SPS-Civil Work Under Progress Physical Progress - 98.19%, Financial Progress - (260.98 Cr.)

Sr. No.	Status	Location	Project Name	STP Capacity (In MLD)	Sewer Network (In Km.)	Santioned Cost (Crore) GoI/GoB	Date of Sanction/ Date of AA&ES issue GoI/GoB	Date of NIT	Contract Price	Signing of Contract Contractors Name/ Date	Date of Completion (As per Agreement/ Projected by BUIDCo)	House Connection	During this month	Total Progress
5		Naugachhia	I&D works and STP at Naugachia	9	—	60.79	08-01-2017	22-06-18	61.89 Cr. (C Cost- 35.01 Cr. And O&M- 26.38 Cr.)	UEM India 22/10/2018	21.04.20 30.09.22		—	1) MPS : NA, 2)Grit Chamber : 100% , 3) SBR & CCT : 100% , 4) Chlorination Building : 100%, 5) Sludge Dewatering Builg : 100% , 6) Admin cum Lab: 100% , 7) Airblower:100%, 8) MCC : 100%, 9) Staff Quarter: 100% , 1) Grit Mechnaish : 100%, 2)Air Blower with Piping : 100%, 3) MCC & Panel : 100% , 4) Transformer : 100% , 5) WAS Pre-Thickner Pumps :100% , 6)Poly dosing pumps:100%, 7) Chlorine Leak Blowers :100%, 8) Cable Tray :100%, 9) Grit Mechnaish : 100% , 2) Sluice Gates G.chamber :100% , 3) Chlorination system:100%, 4) Sludge dewatering Machine:100%, 5) Cable termination : 100%, 1) Grit Mechanism system : 100% , 2) Diffuser with Air Blowing : 100% , 3) Filtrate transfer pump : 100% , Wet well,Inlet chamber-100%, DG Room-100%, Panel Room-100%, Transformer yard-100%, staff qtr.-100%, Boundry wall-100%, Procurement-100%, HT Panel -95% , DG Installation-100%, Transformer yard-100%, MCC Panel-100%, Screens-100%, sluice gate-100%, Monorail-100%, cable tray-100%, Internal external lighting-100%, Wet well,Inlet chamber-100%, DG Room-100%, Panel Room-100%, Transformer yard-100%, Staff qtr.-100%, Boundry wall-100%, Procurement-100%, HT Panel -95% , DG Installation-100%, Transformer yard-100%, MCC Panel-100%, Screens-100%, sluice gate-100%, Monorail-100%, Pumps-100%, Wet well,Inlet chamber-100%, DG Room-100.0%, Panel Room-100%, Transformer yard-100%, Staff qtr.-100.0%, Boundry wall-100%, Procurement-100%, HT Panel -100% , DG Installation-100%, Transformer yard-100%, MCC Panel-100%, Screens-100%, sluice gate-100%, Monorail-100%, Wet well,Inlet chamber-100%, Boundry wall-100%, MCC Panel-100%, DG Room-100%, Ht&Transformer-100%, Staff quarter-100%, Screens-100%, Sluice gate-100%, Submersibble pump-90%, Monorail-100%, DG Installation-100%, MCC Panel-100%, Transformer -95%, Wet well-100%, Inlet chamber-100%, DG Room-100%, MCC Panel-100%, HT/Transformer-98%, E&M Work -70%(Procurement), HT/Transformer-98%, E&M Work -70%(Procurement), Submersibble pump-100%, Screens-100%, Sluice gate-100%, DG Installation-100%, MCC Panel-100%, Transformer -95%, Rising Main-15289.5 meter, Trenchless pipe crossing -102 meter, Road restoration-15229 meter Physical Progress - 99.90 % Financial Progress - (37.40 Cr.)
6	Ongoing Project	Mokama	I&D works and STP at Mokameh	8	—	53.81/ 60.91(Rvd)	28/07/2017	30-12-17	59.17 Cr. (C Cost- 37.765 Cr. And O&M- 21.407 Cr.)	EMS Singh 15/06/2019	15.12.20 30.09.22		Landscaping & Plantation work: In progress , Supply of Electromechanical equip.=, Installation of Electromechanical Equip, I&D Work:, DI pipe laying=789M, IPS-1:, Finishing work80% complete, PS: strucutral work=95% complete & finishing work=90% complete, Supply of Electromechanical equip., IPS-2:, PS: finishing work=100% complete, Boundary wall 95% complete, DG & Transformer plateform=10% complete, RCC drain work=1800M	Design &Survey - complete,, SBR work: 100% complete& rest in progress., Admin block : 100% complete & rest in progres, Panel Room: 100% work complete & rest in progress., Boundary wall =100% complete , ,Road Work=85% complete & rest in progress, Chlorination Tank:100% complete & rest in progress , Sludge Holding Tank: 100% complete , Centrifuge Building: 100% complete & rest , Grit Chamber: 100% complete & rest in progress , MPS:Structural work complete & finishing work 100% complete , Air Blower Plateform :100% complete , Landscaping & Plantation work: 95% complete, Guard Room: Structure work 100% complete, Supply of Electromechanical equip.=, i) Decanter System=2 Set, ii) Sewage Transfer Pump=9Nos, iii) RAS Pumps=2set, iv) SAS Pumps=2set, v) Diffuser=2Lot , vi) Chlorinator=1No, (vii) Mechanical coarse & fine screen, vii) Air Blower=3Nos,Centrifuge=2Nos, viii) MCC Panel=1Nos , ix) PLC Panel=1Nos , x) Cable Tray=1lot , xi) MS pipe=1lot , xii) Diffuser=2Lot , xiii) Online monitoring system 1set , XX) Centrifuge Feed Pump=02 Nos, (XXI) Sewage sludge pump=06 Nos for IPS, XXII) Solar panel street light , XXIII) HT Panel, Installation of Electromechanical Equip, i) Air Blower=100%, ii) MCC panel installed=100%: , iii) air blower pipes laying complete , iv) DG installation complete=100%, v)Diffuser pipeline installed=100%, vi) Cable tray framework erected 100% complete, vii)Pumps in Wetwell installed 100%, MPS to Grit ch pipeline complete, Cable laying=95% complete, PLC panel installed, Gate Valve=06 Nos installed, Mechanical coarse & fine screen installed, Motorised gate valve installed, Manuall screen installed, All electric supply work at STP complete, Chlorinator sytem installed, Flowmeter installed, Solar panel street light installation complete, Testing of all electromechanical machinery complete, I&D Work:, Di pipe laying=5149M, 600mm dia Hume pipe laying=300 M, 300 mmdia hume pipe laying=485M, Manhole=35 Nos, Staff Quarter: structural 100% complete & finishing work =80% complete, Boundary wall : 95% complete, PS: strucutral work=95% complete & finishing work=90% complete, Panel Room: strucutral work complete & finishing work in progress, Pumps=3 Nos, Mechanical Screen=01 No, IPS-2:, Site development work: Filling work 90% complete, Staff Quarter: structural work complete & plaster work 100% complete, PS : strucutral work of Receiving chamber 100% complete and finishing work 100% complete, Boundary wall : 95% complete, DG & Transformer plateform=10% complete, RCC drain work=1500M complete, Manhole : 45Nos completed, Pumps=3 Nos, Mechanical Screen=01 No Physical Progress-92.50 % Financial Progress : (37.23 Cr.)
7		Baktiyarpur	I&D and STP at Bakhtiyarpur	10	—	35.88	24/12/2018	19-01-2019	36.04 Cr. (C Cost- 22.65 Cr. And O&M- 13.40 Cr.)	S.G. Construction & S.N.Enviro 27/08/2019	26.08.20 (EOT requested till Oct 2022)		Boundary Wall Complete Admin cum Panel Building cum Staff Quater's - Complete. SBR & CCT - 0.25% Chlorination Building - 2%. MPS & inlet chamber - 0.250%. Sludge Holding Tank -0.0% Grit Chamber 0.0% Airblower Shed Complete DG and Transformer 0% IPS1/Pumping station 0% IPS2/Pumping station 0% Sewer Network 0.000KM	Boundary Wall Complete IPS2/Pumping station 34.985% Admin cum Panel Building cum Staff Quater's - Complete. SBR & CCT - 99.25% Complete. Chlorination Building - 97%. MPS & inlet chamber - 99.25%. Sludge Holding Tank - 99%. Grit Chamber 99% Airblower Shed Complete DG and Transformer 90% IPS1/Pumping station 34.990% Sewer Network 1.430KM Physical Progress- 85.50% Financial Progress - (23.44 Cr.)
8		Maner	I&D and STP at Maner	6.5	3	41.36	01-02-2019	19-01-2019	40.83 Cr. (C Cost- 18.676 Cr. And O&M- 22.163 Cr.)	SIMA Labs Pvt. Ltd. & A K Contractor (J.V) 27/09/2019	26.09.20 (EOTrequested till 02.08.2022)		1) Boundry wall-.0% 2)Admin Building-0.10% 3)SBR tank-2.80% 4)CCT-18.40% 5)Sludge Holding Tank-9.90% 6)Chlorination Room-29.07% 7)Grit Chamer-10.50% 8)Fdn for DG & transformer- 0.10%	1) Boundry wall-99.20% 2)Admin Building-97 % 3)SBR tank-96.10% 4)CCT-98.10% 5)Sludge Holding Tank-97.10% 6)Chlorination Room-98.10% 7)Grit Chamer-100 % 8)Fdn for DG & transformer- 97.20% Physical Progress- 41.85% Financial Progress - (12.39 Cr.)
9		Digha-Zone	STP & Sewer Network	100	288	824	08-11-2017	15-05-18	1187.86 Cr.	VA Tech Wabag 30/12//2019	Apr-23		Netowk Progress: 1. Sewer Line Laid-10.15 Km 2. Manhole-271 Nos. 3. Road Restoration-1.5 Km 4. HSC-2182 Rm 5. Flow test- 0 Km 6. SPS A: 2nd lift under progress 7. SPS B: 4th lift of well stening casted STP Progress: Piling work , Earth filling Work under progress all structure Total nos. piling work done in this month-317 Nos.	Netowk Progress: 1. Sewer Line Laid-88.50 Km 2. Manhole-2801 Nos. 3. Road Restoration-64.0 Km 4. HSC- 12072 Rm 5. Flow Test- 17.606 Km 6. SSPS A: 2nd Lift under Progress 7. SPS B: 4th Lift under Progress STP Progress: 1. Engineering Drawing 6% achieved 2. Civil Work-7.76% 3. procurement & erection- 6.41% 4. Achived 552 Nos. of Pile completed , still piling and earth filling work under progress. 5. Total Progress Digha STP-20.17% Physcial progress- 14.49% Financial Progress:- 152.90 Cr.

Sr. No.	Status	Location	Project Name	STP Capacity (In MLD)	Sewer Network (In Km.)	Santioned Cost (Crore) GoI/GoB	Date of Sanction/ Date of AA&ES issue GoI/GoB	Date of NIT	Contract Price	Signing of Contract Contractors Name/ Date	Date of Completion (As per Agreement/ Projected by BUIDCo)	House Connection	During this month	Total Progress
10		Kankarbagh-Zone	STP & Sewer Network	50	150	578.89	08-11-2017	15-05-18		VA Tech Wabag 30/12//2019	Apr-23		Netowk Progress: 1. Sewer line laid- 3.989 Km 2. Manhole -104 Nos. 3. Road Restoration- 0.00Km 4. HSC- 0 Rm 5. Flow Test- 0 km STP Progress: 1. Piling work and earth filling work under progress at all structures. 2. Total No. of Piling done this Month= 98Nos. 3. Outfall pipe line work started excavation and laying - 40/265Mtr compleded.	Netowk Progress: 1. Sewer line laid-41 Km 2. Manhole -1325 Nos. 3. Road Restoration- 34.934 Km 4. HSC- 22 Rm 5. Flow test -13.495 km STP Progress: 1. Engineering Progress achieved 100% 2. Civil Work - 8.12% 3. Procurement & Erection- 6.41% 4. Piling work and earth filling work under progress at all structure. 5. Total No. of Piling= 329 Nos. 6.Total progress KKB Stp - 20.53% Physcial progress- 7.77% Financial Progress:- 27.25 Cr.
11		Begusarai	STP & Sewer Network	17	98	230.06	03-05-2018	01-08-2018	236.85 Cr. (Capital Cost- 180.49 Cr. and O&M- 56.36 Cr.)	Toshiba (JV) 04.02.2020	Mar-23		1. Pipe Laying -1.514 Km 2. Manholes -58 Nos 3. Inspection Chamber -244 Nos 4. Road Restoration - 0.620 KM "This Month progress Civil works- MPS-RCC-0 SBR Tank-0% Grit chamber-8% Air Blower-15.51% Staff Qtr.-A-5.0% Staff Qtr.-B-3.0% HT Meter Room-RCC-0.0% CCT-PCC/RCC-0 cum.(0%) Admin Building-RCC-8 cum.(8%) Sludge sump- RCC-0.0%. Sludge Dewatering Building/Centrate sump- RCC-0.0%" "IPS 1- No work due to water logging IPS-2A- Sinking -1.7 meter RCC-15 Cum.	1. Pipe Laying -81.924 Km 2. Manholes -3300 Nos 3. Inspection Chamber - 9305 Nos 4. Road Restoration - 77.821 KM Additional restoration done for old existing network. "Updated progress Civil works- MPS-26.2% SBR-86.94% Grit chamber-95.95% Air blower- 68.18% Staff qtr.-A- 68.23 % Staff qtr.-B- 95.26 % HT meter room-72.23% Admin Bldg.- 32.22% CCT-PCC-40 cum.(7.66%) Sludge Sump-19.3% Sludge Dewatering Building/Centrate sump-44.07% E&M Works- Procurement-100% Installation-0%" "6. IPS 1-41.16% IPS 2 - (28.49%) Wet well Wall completed up to 5th above cutting edge, 6th lift in progress and Sinking--6.05 meter from NGL E&M Works:- Procurement-70% Installation-0% Rising Main Network completed = 0.980 KM" Physical Progress - 71.20 % Financial Progress – 163.66 Cr.
12	Ongoing Project	Chhapra	I&D and STP	32	18.95	236.15	30/11/2018	04-19	244.39 Cr. (Capital Cost- 119.90 Cr. and O&M- 124.49 Cr.)	Toshiba (JV) 04.02.2020	04.08.21 16.11.2022		1. Main Pumping Station - Screen Chamber work is in progress (2.70%), 2. Screen Chamber Slab Casting completed and Grit Chamber Slab casting Completed ,side wall casting work completed and walkway casting work is in progress- 0.2%, 3.Sludge Dewatering Building column work is in progress, Sludge Sump,Feed pump house and centriguge building 1st slab and 2nd slab completed and Brick & Plaster work in progress - 0.5%, 4.Substation, MCC Room - 0.5%, 5. SBR, Equalisation Tank & Was Sump Raft is completed and wall 3rd,4th lift and walkway RCC work is in progress (0.5%), 6. CCT - 0.02%, 7.Air Blower Room - 1st floor slab work is completed and second floor column work ,staircase work completed and brick work in progress (0.1%), 8. Admin Cum Lab Building - 0.2%, 9. Staff Quarter brick work and plaster work is in progress (0.1%), 10 .IPS/Pumping station IPS 1 -(4.80%) , 11 .IPS/Pumping station - IPS 2/A -(0.0%) , 12 .IPS/Pumping station IPS 3 - (0.0%), 13 .IPS/Pumping station IPS4 - (0.0%), 14 .IPS/Pumping station IPS 5 - (5.90%), 14 .IPS/Pumping station IPS B - (0.0%) , 16. Network (I&D) - Laying work= 199 m (1.09%) manhole - 21(3.0%), 17. Road Restoration (I&D Network) - 0.0 km (0.0%), 18. Rising Main - 0.0 mtrs (0.0%) completed, 19. Road restoration (Rising main) - 0.0 Km (0.0%), 20. Electro-Mechanical Equipments for STP - Pipe,decantor 2 nos.and blowwer erection work is in progress (5%), 21. Electro-Mechanical IPS-03 & IPS-04 work in progress - 0.2	1. Main Pumping Station - Screen Chamber work is in progress- (99.30%), 2. Grit Chamber,Screen Chamber,Inlet Chamber,& Parshall Flume ,Pile Cape and Column RCC and Tie Beam work and column completed and Screen Chamber Slab Casting completed and Grit Chamber Slab casting completed ,side wall casting completed and walkway casting work in progress (78.45%), 3.Sludge Dewatering Building column RCC work is in progress, Sludge Sump,feed pump house Completed and centriguge building st slab and 2nd slab completed and Brick & Plaster work in progress - (65.70%), 4.Substation, MCC Room up to Raft and column work up to plinth beam is completed and FFL slab beam concreting and slab rcc work is completed and 2nd slab casting work in progress (66.95%), 5. SBR, Equalisation Tank & Was Sump Raft is completed and wall 3rd ,4th lift and walkway RCC work is in progress (95.5%), 6. CCT 5th lift Wall completed and Chlorination building 1st slab completed and column casting work completed, cholration building slab casting work completed, brick work and plaster work completed and channel work is in progress (88.28%), 7. Air Blower Room - 1st floor slab work is completed and second floor column work staircase work completed and brick work in progress (70.1%), 8. Admin Cum Lab Building - RCC Column work up to plinth level and FFL slab rcc work is completed and column work completed and 1st slab shuttering work is in progress (45.31%), 9. Staff Quarter brick work and plaster work completed and finishing work is in progress (92.96%), 10 .IPS/Pumping station IPS 1 -(22.80%) , 11 .IPS/Pumping station - IPS 2/A -(100%) , 12 .IPS/Pumping station - IPS 3 (100%), 13 .IPS/Pumping station -IPS4 - (100%) , 14 .IPS/Pumping station IPS 5 - (88.40%), 14 .IPS/Pumping station IPS B - (77.80%) , 16. Network (I&D) - Pipe laying of 10734 mtrs and manhole 336 nos. is completed ,Pipe Laying -(58.80%) and Manhole - (48%), 17. Road Restoration (I&D Network) - 9.897 KM (93.94%) road restoration is completed , 18. Rising Main - 1734.00 mtrs (52.54%) completed, 19. Road restoration (Rising main) - 0.924 Km (53.28%), 20. Electro-Mechanical Equipments for STP - Pipe,Decantor 2nos and blower Erection work completed and piping work is in progress (36%), 21. Electro-Mechanical Equipments for MPS&IPS - (90.7%) IPS-03 & IPS-04 work in progress Physical Progress -90.20 % Financial Progrss - 89.27 Cr.
13		Fatua	I&D and STP	7	__	35.49	24/12/2018	06-19	176.19 Cr. 12.11.2020 (EOT requested till 22.11.2022)	Bhugan Infracon & Enviro Infra Eng. Ltd. (J.V) 23.11.2020	23.11.2022		STP- (1)SBR tank- 4% (2) CCT- 60% (3) Addmin Building- 10% Over all Progress (STP) 14.3%	STP- (1)SBR tank- 14% (2) CCT- 60% (3) Addmin Building- 10% Over all Progress (STP) 16.5% Physical Progress - 18.89.% Financial Progrss - 1.30 Cr.
14		Danapur	I&D and STP	25	__	103.27	02-08-2019	06-19			23.11.2022		1) Admin Building- 2.70% 2)SBR Basin- 7.70% 7) Stilling chamber with screen channels-17.10 % 8)Grit chamber with Parshallflume-15.50 % 9)Sludge House-15 %	STP 1) Admin Building-97 % 2) SBR Basin-74.10% 3) CCT-90% 4) Chlorination Building-90% 5)Security Cabin-90% 6)Supply of DI Pipe-830.50M 7) Stilling chamber with screen channels-50.50 % 8)Grit chamber with Parshallflume-50 % 9)Sludge House-90% Physical Progress - 68.77.% Financial Progrss - 22.76 Cr.
15		Phulwarisarif	I&D and STP	7+6=13	__	46.25	02-08-2019	06-19			23.11.2022		nill	Nill Physical Progress - 58.65% Financial Progrss - 3.80 Cr.
16		Hajipur	STP & Sewer Network	22	138.9	305.19 Revised	03-05-2018	30-05-19	316.28 Cr.	03.07.2021	02.07.2023		"Sewerage Network(KM)-5.378 Manhole - 421 "Property Chamber(Nos)- 1991 Road Restoration - 4.409 Staff Quarter, STP (CUM)- 0 Aeration Tank - 81 "MPS(CUM)- 17.38 Grit Chamber (CUM)- 11.38 Secondry Clarifier (CUM)- 39.39 Security cabin (CUM)- 0 Air Blower Shed (CUM)- 6 "MCC/Admin building (CUM)-28.7 IPS (CUM)- 2	Sewerage Network - 111.332 Manhole - 5627 Property Chamber (Nos) - 14198 Road Restoration - 108.102 Staff Quarter, STP (CUM)- 70.32 DG & Transformer, STP (CUM) - 58.5 Aeration Tank - 3374 MPS(CUM)- 163.38 Grit Chamber (CUM)-88.38 Secondry Clarifier (CUM)-300.85 Security cabin (CUM)- 14 Air Blower Shed (CUM)-72 "MCC/Admin building (CUM)- 52.7 IPS (CUM)-7.93 Rising main (KM)-0 Physical Progress-70.35.% Financial Progress:- 138.50 cr.

Sr. No.	Status	Location	Project Name	STP Capacity (In MLD)	Sewer Network (In Km.)	Santioned Cost (Crore) GoI/GoB	Date of Sanction/ Date of AA&ES issue GoI/GoB	Date of NIT	Contract Price	Signing of Contract Contractors Name/ Date	Date of Completion (As per Agreement/ Projected by BUIDCo)	House Connection	During this month	Total Progress
17		Bhagalpur	I&D works and STP at Bhagalpur	45	57.54	254.13 413.26 [R]	10-12-2017	08-18	_	05.10.2021	06.11.2023 (excluding 3 months of trial run)		1..Pile Work for FCR Tank:- 76 Nos. completed. 2. Pile cage preparation work In Progress. 3. Staff Quarter Type-I:- 13% completed. 4. Staff Quarter Type-I-Ground Beam Reinforcment work In Progress. 5.Security Cabin : 70% completed. Brick work- 2.3 cum completed." 1. Permanent Road Restoration Work:-0.56 KM" 1. IPS-10 Rising Main 450MM Dia:- Total laying 159.50 Mtr "1.Fabrication of cutting edge work completed. 2. Grading & excavation work in Progress"	1.Pile Work for FCR Tank :-Total 158 out of 595 Nos Completed as on Dec'22. 2. Staff Qauter type-I:- 13 % completed. 3. Security Cabin:-70% completed. Brick work in progress. 4. BEP of STP approved is Cat-B & IPS awaited. 5.Temporary power connection obtained at STP site. 6. Pre-Construction activities i.e labour habitat, safety traning room , steel yard etc completed. 7.Dismantling work:-92 % completed" 1. Permanent Road Restoration Work:-1.32 KM" "1. IPS-10 Rising Main 450MM Dia:- Total laying 1380.50 Mtr 2. IPS-09 Rising Main350MM Dia:- Total laying 710.00 Mtr 3. Common Rising main 500 MM Dia, IPS-09 & 10:- Total Laying 819.00 M Cumulative Laying:-2.90 KM." 1.Fabrication of cutting edge work completed. 2. Grading & excavation work in Progress"" Physical Progress-11.52% Financial Progress:- 0.07 cr.
18	Ongoing Project	Munger	STP & Sewer Network	30	165.73	294.02	03-05-2018	__	__	04.10.2021	17.10.2023	802 15200	PTU Pile casting work is completed, SBR Tank Wall rcc work is in progress -(4 %) . CCT wall rcc work is in progress (2.01 %). Admin Building work PCC & raft work is in progress (7.10 %) MPS wall casting work is in progress (10%) . Blower Building pile work is in progress (5%). , Site survey completed., 1st lift steining reinforcment work is in progress (5%), Casting (4 lifts) and sinking work is in progress. Other structures desihn/drawing submitted to BUIDCo for review (10%)., Casting (2 lifts) and sinking work is in progress. Other structures desihn/drawing submitted to BUIDCo for review (10%)., Well Shrinking work is completed. Excavation & PCC work of LT cum RTU room completed (5%), Zone-1 IPS has been finalized from BUIDCo end. We are in process to submit hydraulic design / network plan of Zone-1 network. Other than Zone-01 , all 5 zones design/drawing approved from BUIDCo (HQ). With respect to approved design/ drawing , sewarage network laying work is being executed along with other components. Network laid length - 8.5 kms , Zone-1 IPS has been finalized from BUIDCo end. We are in process to submit hydraulic design / network plan of Zone-1 network. Other than Zone-01 , all 5 zones design/drawing approved from BUIDCo (HQ). With respect to approved design/ drawing , sewarage network laying work is being executed along with other components. Network laid length - 8.5 kms , Zone-1 IPS has been finalized from BUIDCo end. We are in process to submit hydraulic design / network plan of Zone-1 network. Other than Zone-01 , all 5 zones design/drawing approved from BUIDCo (HQ). With respect to approved design/ drawing , sewarage network laying work is being executed along with other components. Network laid length - 8.5 kms	(a) Site establishment completed. (b) Labour hutment completed. (c) SBR tank wall casting work is in progress -(77 %). (d) CCT tank raft completed and wall work is in progress (41 %). (e) Admin Building & MCC Room (20.80%). f) MPS Curve reinforcment binding work in progress (20%). g) Blower Building Pile work is in progress (15%)., Site survey completed , BEP submission is in progress., 2nd lift steining reinforcment work is in progress (35 %), Casting (6 lifts) and sinking work is in progress. Other structures desihn/drawing submitted to BUIDCo for review (50%)., Casting (2 lifts) and sinking work is in progress. Other structures desihn/drawing submitted to BUIDCo for review (50%)., Well Shrinking work is completed (15%). Excavation & PCC work of LT cum RTU room completed (65 %), Hydraulic design / network plan of Zone-1 network submitted for approval. Other than Zone-01 , all 5 zones design/drawing approved from BUIDCo (HQ). With respect to approved design/ drawing , sewarage network laying work is being executed along with other components. Network laid length - 8.5 kms , Hydraulic design / network plan of Zone-1 network submitted for approval. Other than Zone-01 , all 5 zones design/drawing approved from BUIDCo (HQ). With respect to approved design/ drawing , sewarage network laying work is being executed along with other components. Network laid length - 8.5 kms , Hydraulic design / network plan of Zone-1 network submitted for approval. Other than Zone-01 , all 5 zones design/drawing approved from BUIDCo (HQ). With respect to approved design/ drawing , sewarage network laying work is being executed along with other components. Network laid length - 8.5 kms , Work completed. Physical Progress-56.50%, Financial Progress -125.84 Cr.
1	Tendered Projects	Barahiya	I&D and STP	6		27	30.12.2019	__	__	__			____	3 bidders paraticipated in the retender. Technical evaluation is in process.
2		Kahalgaon	I&D and STP	6		25.77	30.12.2019	__	__	__			____	NIT has been sent for publication. Date of bid opening is 07.02.2023
3		Dehri	I&D and STP	21		63.89	01-12-2021	__	__	__			____	Financial bid open on 30.09.2022. Financial bid evaluation is under process
4		Suupaul	I&D and STP	12.1		57.09	07.09.2022							NIT has been sent for publication. Date of bid opening is 07.02.2023.
5		Ramnagar	I&D and STP	9		56.97	12.09.2022							Only one bid received till the last date of bid receiving i.e 30.12.2022 in 1st time tender.
6		Narkatiyaganj	I&D and STP	7		49.39	17.10.2022							NIT floated. Date of bid opening is 04.01.2023
1	Ongoing Projects	Patna	River Front Development of Patna	20 Ghat	6.6 Km	243.27 336.73 (Revd)	19/6/2013 26/02/2019	_	254.52 Cr.	L&T 24.04.14	23-03-2019 / 20-05-20 (4th Extension)			Development of Ghats- 16 Ghats completed out of 20 Ghats. Building- 1. Audio Visual Theatre (AVT) Building at Barhawa Ghat completed. 2. ECO Center at Collectrate Ghat- completed. 3. Community Cum Cultural Center at Raja Ghat-completed. Crematorium at Gulvighat - completed. Start cremation by PMC Promenade - 5.5 km completed. All Ghats and Promenade with building and crematoria handed over to PMC, Patna for Operation and Maintenance. Physical Progress-93%, Financial progress- (316.45 Cr.)
2		Muzaffarpur	Development works of Ghats	3 Ghats		10.77	03-07-2019				06.01.2022		Sikandarpur Mukti Dham - 10 %	Sidhi Ghat - 100 % Chandwara Ghat (Ashram Ghat) - 100 % Sikandarpur Mukti Dham - 100 % Physical Progress-100%, Financial Progress - 7.50 Cr.
3		Gopalganj	Development works of Ghats	2 Ghats		8.25	03-07-2019			Baban Kr Singh 04.01.20	03.06.2021		Completed.	Completed Physical Progress - 100 % Financial Progress - 6.62 Cr.

Sr. No.	Status	Location	Project Name	STP Capacity (In MLD)	Sewer Network (In Km.)	Santioned Cost (Crore) GoI/GoB	Date of Sanction/ Date of AA&ES issue GoI/GoB	Date of NIT	Contract Price	Signing of Contract Contractors Name/ Date	Date of Completion (As per Agreement/ Projected by BUIDCo)	House Connection	During this month	Total Progress
1	Tender to be floated	Gopalganj	Development works of Crematoria	1 Crematoria		3.45	06-05-2020						----	Tender not succeeded in 4th time tender call. Revised estimate costing 4.67 Crore has been sent to NMCG for revised AA&ES.
2		Manihari	RFD	1 Ghat		12	28.01.2022							AA&ES sanctioned on 28.01.2022
Total				676.1 MLD 26Ghat 1 Crematoria	1747.92 KM	5922.83 6279.73						105590 131601	----	dqy v|ru O;; %& 3253-50 djksM+A

1- iVuk xaxk unh rV fodkl ifj;kstuk Qst&2 ds rgr ukStj ?kkV ls uwjiqj ?kkV ds chp 27 ?kkV] 06 fd-eh- izksfeukM lfgr vU; lajpukvksa gsrq 218-00 djksM+ dk izLrkoA

1	Total Sanctioned cost of Sewerage Project (for Patna) -	3237.69 (GOI) 3594.59 (GOB)	House Connection up to date on 31.12.22	
2	Total Sanctioned cost of Sewerage Project (Excluding Patna) -	2250.05 (GOI) 2250.05 (GOB)		
3	Grand Total (1+2)	5487.74 (GOI) 5844.64 (GOB)		
4	RFD Patna Project	243.27 Cr. 336.73 Cr. (Revised Cost)		
5	Other Ghats & Crematoria	22.47 Cr.		
6	Total Expenditure	3253.50 crore (31.12.2022)		

Status of DPR as on 31.12.2022

Sl. No.	Name of Scheme	Population	STP Capacity	SOR	Amount (in Cr)	Land Status	Status
1	2	3	4	5	6	7	8
1	Fecal Sludge Septage Management Dighwara	32741	24 kl	2022	2.97		Observation received by TPA which sent to REPL for compliances
2	Fecal Sludge Septage Management Manihari	26629	18 kl	2022	5.5		Observation received by TPA which sent to REPL for compliances
3	Fecal Sludge Septage Management Teghara	56234	26 kl	2022	4.11		Compliances sent to TPA IIT Roorkee on 05.12.2022
4	I&D Works and STP Arwal	51849	3.5 MLD	2020	50.19		DPR has been submitted to NMCG.NMCG sent this DPR to NIT Patna for TPA.
5	I&D Works and STP Daudnagar	52364	10.1 MLD	2022	35.06		DPR has been sanctioned in last EC meeting
6	I&D Works and STP Darbhanga	296039	22.6 & 1.7 MLD	2022	101.41		DPR has been submitted to NMCG
7	I&D Works and STP Kishanganj	105782	10.5, 3.43, 2.94 & 3.1 MLD	2022	109.46		Observation received by TPA IIT Patna which sent to NEERI for compliances.NEERI has committed to provide compliance till 05.01.2023
8	I&D Works and STP Raxaul	55536	2.5, 2.5, 3.5 & 3.5 MLD	2020	87.62		DPR has been submitted to NMCG.NMCG sent this DPR to IIT, Roorkee for TPA.
9	I&D Works and STP Saharsha	156540	17.4 & 13.05 MLD	2022	110.76		Compliances sent to TPA NIT Patna on 09.12.2022
10	I&D Works and STP Madhepura	54472	10.73 MLD	2022	47.28		NEERI has committed to provide compliance till 05.01.2023
11	I&D Works and STP Motihari	126158	4.6,6.3, 5.8 & 6.3 MLD	2022	164.31		DPR has been sanctioned in last EC meeting
12	I&D Works and STP Jamui	87357	6.8 & 9.5 MLD	2022	56.58		Compliances sent to TPA NIT Patna on 02.01.2023
13	I&D Works and STP Lakhisarai	99979	21 MLD	2022	88.55		DPR May be considered in Coming EC meeting
14	I&D Works and STP Bagaha	112634	11 MLD	2022	85.41		DPR may be sent for TPA
15	I&D Works and STP Gopalganj		11 MLD	2022	134.21		DPR may be sent for TPA
16	I&D Works and STP Samastipur		6 MLD	2022	61.71		DPR may be sent for TPA
DPR under preparation							
17	I&D and STP Ara						DPR under preparation.
18	I&D and STP Betia						DPR under preparation.
19	Gaya sewerage Network and STP project						DPR has been submitted to NMCG on 02.12.2022
20	I&D Works and STP Katihar						DPR under preparation.
21	I&D Works and STP Jogbani						DPR under preparation.
22	I&D and STP Jamalpur						As discussed with SPMG,NMCG wants to make a FSTP in Jamalpur town as a Model in Bihar
23	I&D and STP Buxar						Revised estimate sent to TPA IIT Roorkee on 16.12.2022
24	I&D and STP Purnia						Last date of bid submission is 03.01.2023 for preparation of DPR
25	I&D and STP Sasaram						Last date of bid submission is 03.01.2023 for preparation of DPR
26	I&D and STP Aurangabad						Last date of bid submission is 03.01.2023 for preparation of DPR
27	I&D and STP Jehanabad						Last date of bid submission is 03.01.2023 for preparation of DPR
28	I&D and STP Nawada						Last date of bid submission is 03.01.2023 for preparation of DPR
29	I&D and STP Sitamarhi						Last date of bid submission is 03.01.2023 for preparation of DPR
30	I&D and STP Araria						Last date of bid submission is 03.01.2023 for preparation of DPR
31	I&D and STP Benipur						Last date of bid submission is 03.01.2023 for preparation of DPR
32	I&D and STP Barauni						Last date of bid submission is 03.01.2023 for preparation of DPR
33	I&D and STP Bihat						Last date of bid submission is 03.01.2023 for preparation of DPR
34	I&D and STP Sheikhpura						Last date of bid submission is 03.01.2023 for preparation of DPR
35	I&D and STP Khagaria						Revised estimate sent to NMCG on 16.12.2022

Annexure-1

Statement of facts on Solid Waste Management in Bihar as follow up action for the compliance of the provisions of the Solid Waste Management Rules, 2016.

1. Patna, the state capital of Bihar is only a class-I city. There are 141 Urban Local Bodies (ULBs)/Municipal Authorities (Municipal Corporation-18, Municipal Council-76 and Nagar Panchayat-47) in Bihar.
2. State Policy and Solid Waste Management strategy for the State has been prepared by Urban Development & Housing Department, Govt. of Bihar.
3. State Level Advisory Body (SLAB) has been constituted under Solid Waste Management Rules, 2016 vide notification 135, dated-24.01.2018. The meeting of the aforesaid body was held on 30.01.2018, 30.07.2018, 08.03.2019, 19.03.2020, 19.02.2021, 11.06.2021 & 28.01.2022.
4. Model SWM Bye-laws, 2019 for ULBs of state has been notified.
5. State Level Advisory Committee under Chairmanship of Chief Secretary, Bihar has been constituted vide Environment, Forest & Climate Change Department, GoB notification no. 689(E), dated-12.06.2019 for effective enforcement of environmental laws, environmental conservation and pollution control programme & co-ordination among different departments/agencies.
6. There is no formal study for quantity of waste water generation. UD&HD, Govt. of Bihar has assessed solid waste generation in Bihar as hereunder considering 5 persons per household:-

Waste Generation in TPD & TPA					
Sl. No.	**Type of ULBs**	**Total no. of Households**	**Waste generation in Kg/capita/day**	**Waste Generation in TPD**	**Waste Generation in TPA**
1.	Municipal Corporation	742797	0.3	2007	732555
2.	Patna Municipal Corporation	272936	0.5	1000	365000
3.	Municipal Council	935487	0.3	1654	603710
4.	Nagar Panchayat	262404	0.2	314	114610
	Total	**2213624**		**4975**	**1815875**

7. Solid waste management status:

S.N.	Particulars	Status
a.	ULBs & Wards	141 ULBs (wards: 3398 including 13 railway wards)
b.	Door to door collection	141 ULBs
c.	Distribution of household bins (blue & green)	Remaining Partially
d.	Segregation of wastes at source	141 ULBs
e.	Solid waste possessing site indentified and available	Solid waste processing facilities (composting) are functional in 79 ULBs at 141 Plants/locations
f.	landfill site indentified and available/cleared	32 sites but, yet to be developed scientifically

8. Annual report in Form-IV has been received from all ULBs: 141.

9. The Patna Municipal Corporation has its own landfill site but, yet to be developed scientifically. No progress reported in the development of the facility so far.

10. Urban Development and Housing Department, Government of Bihar is proposing an Integrated Solid Waste Management Strategy for Collection, Transportation, scientific processing, and disposal of solid waste generated by the Urban Local Bodies. The strategy aligns with the Solid Waste Management Rules 2016, Plastic Waste Management (Amendment) Rules 2016, Construction and Demolition Waste Management Rules 2016, and NGT directions issued from time to time.

11. The proposed approach includes collection, transportation, and development of processing and disposal facilities. Solid Waste Processing and Disposal shall be managed through a combination of a centralized approach and a decentralized approach.

12. UD&HD has circulated guidelines to all ULBs for Solid Waste Management vide its letter no. 913, dated-09.04.2018.

13. Bihar State Pollution Control Board has been constantly pursuing the ULBs to set up municipal solid waste processing and disposal facility including landfills and for compliance of the provisions of the MSW (M&H) Rules, 2000 and Solid Waste Management Rules, 2016 since very beginning.

Annexure – 3

BIHAR STATE POLLUTION CONTORL BAORD, Patna-800 010

STATE-WISE STATUS OF IMPLEMENTATION OF PLASTIC WASTE MANAGEMENT RULES, 2016 FOR THE YEAR 2021 – 2022

ANNUAL REPORT

Form – VI

Bihar State Pollution Control Board, Patna, Bihar	(1)	Name of the SPCB or PCC	
Bihar Population Census -2011): 104099452 Bihar Urban Population (Census -2011): 11758016 Bihar Urban Population (as per ULB data): 12806664 Plastic Waste **Generated** as per Annual Report of ULBs- **53232.339** Tons Plastic Waste Generation **Per Capita:** 4.156 kg/year or **11.387 gram/day.**	(2)	Estimated Plastic Waste generation Tons Per Annum (TPA)	
18	(3)	Plastic Units	No. of registered Plastic Manufacturing or Recycling (including multilayer, compostable) Units. (Rule – 9)
Nil		Compostable Plastic Units	
Nil		Multilayer Plastic Units	
A total no. of 102 producers, 64 Brand Owners and 6 recyclers have been identified. Out of which 162 **Brand Owners** are registered with CPCB & **21** with BSPCB and **18 recyclers** are registered with State Board. ***Annexure - 1***	(4)	No. of unregistered plastic manufacturing/ recycling units (in residential or unapproved areas)	
141 Local Bodies have submitted their Annual Reports. (**Summary Report** is enclosed herewith as ***Annexure – 2*** & Detail Report as ***Annexure – 3.***	(5)	Details of Plastic Waste Management (PWM) e.g. Collection, Segregation, Disposal (Co-processing road construction etc.) (Rule –6) (Attach separate	
Plastic **Carry Bag** (irrespective of their thickness and size) **banned completely** in the state of Bihar vide Gazette Notification No. **943 dt. 24.10.2018 (Urban area)** (***Annexure- 4***) and 1043 dt. 11.12.2018 (Rural Area)(***Annexure – 5***). **Single Use Plastics (SUP)** are also **banned** in the state of Bihar vide Gazette Notification No. **1012 dt. 11.12.2021.** It will come in force from 01.07.2022(***Annexure- 6***).	(6)	Partial or complete ban on usages of Plastic Carry Bags (through Executive Order)(Attach copy of notification or executive order)	
Production of Carry Bag is completely banned in the state and hence not applicable Rule 11(a). However, the Board is in process of taking producers and Brand owners under the ambit of Rule 13 and 9. Accordingly they shall be imposed conditions for compliance of Rule 11(b).	(7)	Status of marking Labelling on carry bags (Rule 8) [Specify the number of units not complied or complied]	
This rule is omitted vide notification no. G.S.R. 285(E) dt. 27.03.2019	(8)	Explicit Pricing of carry bags (Rules -15)	
State Level Advisory Committee constituted vide notification no. 1586 dt. 05.07.2018. A copy is attached herewith as ***Annexure – 7***. The 6th Meeting of SLAC was held on 28.01.2022 (***Annexure – 8***). The State Level Special Task Force Notified by Notification No.- 816 dt. 27.09.2021, Annexure – 9	(9)	Details of the meeting of State Level Advisory Committee (SLAC) along with its recommendation on Implementation (Rule – 16)	
Proposed direction issued to violators – Recyclers – 6; Producers – 102	(10)	No. of violation and action taken on non-compliance of provisions of these Rules	
Total Urban Municipal Authorities 141 (Municipal Corporations-16; Municipal Council – 73; Nagar Panchayat – 52)	(11)	No. of Municipal Authority or Gram Panchayats under jurisdiction and Submission of Annual Report to SPCB (Rule 17)	
Annual Report submitted by -- 141 ; Municipal Corporation - 16 ; Municipal Council - 73 ; Nagar Panchayat - 52			

Annexure - 4

STATE LEVEL WATER TESTING LABORATORY
P.H.E.D., GOVERNMENT OF BIHAR
TEST REPORT

Format No.: SLWTL/FRM/02 (61)
Issue No.:599
Issue Date: 25.11.2022

Report No: SLWTL/2022/GW-18233-18252
Name of the Organisation/Person: Departmental
Location Details: Bhagalpur, District (River Name: Ganga)
Ref.Memo No: Nil
Sample Collected by SLWTL *(SLWTL collect sample followed by the Sampling Procedure "SLWTL/PCD/02/15")*: Yes
Type of Sample: Ground Water
Volume of Sample: 1 Ltr
Mode of Preservation: Preserved
Deviation of Method , If Any: NIL
Date of Analysis Started: 21.11.2022
Remarks: Submitted sample of water confirm to IS:10500-2012 with respect to tested parameters.

Date of Reporting: 25.11.2022
Sample Received on: 17.11.2022
Source of Sample: Drinking Water
Type of Container: Plastic
Sample Condition:Sealed
Date of Sampling: 09.11.2022 to 11.11.2022
Date of Analysis Completed: 25.11.2022

SL. No.	Block Name	Panchayet Name	Village Name	Habitation / Ward No.	Location Details	Latitude	Longitude	Physico - Chemical and Bacteriological Parameters														
								pH	Turb	EC	TDS	TH	Ca	Mg	Cl	Alka	Fe	NO_3	SO_4	F	As	Mn***	T.Coli***
								-	NTU	µmho/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	MPN/100ml
							'Minimum Detection Limit	2.0	4.0	1.0	10.0	10.0	5.0	2.0	5.0	10.0	0.01	1.0	5.0	0.01	0.002	0.01	–
							Desirable Limit*	6.5-8.5	1	-	500	200	75	30	250	200	1	45	200	1	0.01	0.1	-
							Permissible Limit* in absence of alternate source	NR	5	-	2000	600	200	100	1000	600	NR	NR	400	1.5	NR	0.3	**
1	Sultanganj	Jahangira	Dom tola	Dom tola/07	Dom tola	25.240651	86.703119	7.09	<4.0	1340.00	872	524	110.62	60.26	39.98	346	0.98	8.82	148.00	0.12	0.006	ND	ND
2	Sultanganj	Kamarganj	Chabutra Bagicha	Chabutra Bagicha/09	Durga Sthan	25.239602	86.689277	7.48	<4.0	332.10	216	140	33.66	13.61	39.98	110	0.89	2.47	17.10	0.27	0.004	ND	ND
3	Sultanganj	Kathara	Kathara	Nidhara/10	Dev Sthan	25.176974	86.75248	7.17	<4.0	1379.00	896	536	113.83	61.23	45.97	526	0.78	8.78	127.90	0.64	0.003	ND	ND
4	Sultanganj	Kathahara	Kathahara	Kumarpur/07	Near Aganbadi Kendra	25.177111	86.758764	7.28	<4.0	1642.00	1068	684	136.27	83.59	59.97	662	0.88	8.80	101.80	0.59	0.005	ND	ND
5	Nathnagar	Gosaindaspur	Gosaindaspur	Ward No.08	Dom tola	25.259912	86.910296	7.32	<4.0	579.10	376	212	43.28	25.27	19.99	116	0.10	1.62	5.40	0.16	0.005	ND	ND
6	Nathnagar	Gosaindaspur	Gosaindaspur	Ward No.06	Ajay Kumar	25.259912	86.910288	7.91	<4.0	731.60	476	304	65.73	34.02	37.98	201	0.84	6.59	11.30	0.11	0.003	ND	ND
7	Nathnagar	Nisfambey	Nisambey	Nisfambey/03	Sharma Tola	25.212615	86.949735	7.49	<4.0	1396.00	908	568	113.83	69.01	21.98	484	0.77	6.69	70.70	0.52	0.002	ND	ND
8	Nathnagar	Belkhoria	Belkhoria	Maniyarpur/11	Harijan Tola	25.18481	86.893996	7.50	<4.0	2026.00	1316	752	125.05	106.92	41.97	718	0.98	9.08	130.40	0.32	0.006	ND	ND
9	Ismailpur	Parbatta	Choti Parbatta	Choti Parbatta/02	Near Public Toilet	25.325826	87.047905	7.61	<4.0	735.80	478	308	60.92	37.91	19.99	288	0.47	1.53	57.90	0.08	0.004	ND	ND
10	Ismailpur	Paschmi Bhitta	Ring Bandh	Ring Bandh/15	Bilash Sah	25.328841	87.148679	7.77	<4.0	563.10	366	216	46.49	24.30	25.98	176	0.58	<1.0	19.20	0.08	0.003	ND	ND
11	Ismailpur	Narayanpur Laxmipur	Dimha Diyara	Dimha Diyara/09	Sunil Yadav	25.325164	87.099411	7.88	<4.0	270.90	176	104	22.44	11.66	33.98	108	0.78	<1.0	11.80	0.06	0.006	ND	ND
12	Naugachhia	Khagra	Khagra More	Khagra More/02	Hanuman Mandair	25.370072	87.068826	7.51	<4.0	301.60	196	112	27.25	10.69	39.98	123	0.59	<1.0	9.00	0.11	0.004	ND	ND
13	Naugachhia	Khagra	Naya tola	Naya tola/11	Makuni Mandal	25.374387	87.062582	7.47	<4.0	356.20	332	192	43.28	20.41	43.97	216	0.71	<1.0	9.60	0.07	0.005	ND	ND
14	Naugachhia	Khagra	Chany Tola	Chany Tola/15	Prithwi Mandal	25.305595	87.026975	7.39	<4.0	303.90	198	116	25.65	12.63	31.98	100	0.82	<1.0	37.10	0.08	0.002	ND	ND
15	Naugachhia	Khagra	Sahuparbatta	Sahuparbatta/11	Ajay Sahu	25.217173	86.873515	7.18	<4.0	1973.00	1282	696	137.87	85.53	73.96	842	0.90	<1.0	195.30	0.16	0.003	ND	ND
16	Gopalpur	Dumaria Chaparghat	Dumaria Chowk	Dumaria Chowk/06	Bajranwali Sthan	25.376091	87.188244	7.29	<4.0	406.70	264	148	35.27	14.58	19.99	142	0.78	1.92	14.50	0.07	0.005	ND	ND
17	Gopalpur	Saidpur	Saidpur Dabra	Saidpur Dabra/04	Durga Sthan	25.325518	87.175163	7.30	<4.0	357.60	232	124	32.06	10.69	17.99	116	0.51	2.16	4.60	0.08	0.006	ND	ND
18	Gopalpur	Dimha Tintanga	Dimha Tintanga	Dimha Tintanga/12	P.S Yadunandan Tola	25.319494	87.189178	7.41	<4.0	492.30	320	188	44.89	18.47	41.97	148	0.55	<1.0	50.10	0.08	0.004	ND	ND
19	Rangra	Murli	NH -31	NH -31/13	Murli Chowk	25.396679	87.162079	7.35	<4.0	590.90	384	244	54.51	26.24	39.98	188	0.61	<1.0	20.20	0.09	0.007	ND	ND
20	Rangra	Rangra Chowk	Rangra	Rangra/07	Md. Lalu	25.395904	87.160209	7.50	<4.0	292.90	190	112	27.25	10.69	43.97	106	0.44	<1.0	12.10	0.33	0.003	ND	ND

Note: * (i) Drinking Water Specification Second Revision -IS: 10500:2012.,ND=Not Done, NR=Not Required., ** Shall not be detectable in any 100 ml sample, *** These parameters are not included in Scope of Accreditation.
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—— END OF TEST REPORT ——

(Shubhankar Kumar Biswas)
Signature of Lab-in-charge
Lab-in-charge
SLWTL, P.H.E.D., Patna
Received By

Prepared by:	Approved by:	Issued by:	Page 1 of 2
Quality Manager	S.R.O cum Technical Manager	Research Assistant cum Lab-in-charge	Revision No.: 0
			Revision Date: Nil

STATE LEVEL WATER TESTING LABORATORY
P.H.E.D., GOVERNMENT OF BIHAR
TEST REPORT

Format No.: SLWTL/FRM/02 (60)
Issue No.:599
Issue Date: 25.11.2022

Report No: SLWTL/2022/GW-18253-18265
Date of Reporting: 25.11.2022
Name of the Organisation/Person: Departmental
Location Details: Bhagalpur, District (River Name: Ganga)
Ref.Memo No: Nil
Sample Received on: 17.11.2022
Sample Collected by SLWTL *(SLWTL collect sample followed by the Sampling Procedure "SLWTL/PCD/02/15")*: Yes
Type of Sample: Ground Water
Source of Sample: Drinking Water
Volume of Sample: 1 Ltr
Type of Container: Plastic
Mode of Preservation: Preserved
Sample Condition: Sealed
Deviation of Method , If Any: NIL
Date of Sampling: 09.11.2022 to 11.11.2022
Date of Analysis Started: 21.11.2022
Date of Analysis Completed: 25.11.2022
Remarks: Submitted sample of water confirm to IS:10500-2012 with respect to tested parameters.

SL. No.	Block Name	Panchayet Name	Village Name	Habitation / Ward No.	Location Details	Latitude	Longitude	Physico - Chemical and Bacteriological Parameters													
								pH	Turb	EC	TDS	TH	Ca	Mg	Cl	Alka	Fe	NO_3	SO_4	F	As	Mn***	T.Coli***
								-	NTU	µmho/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	MPN/100ml
							'Minimum Detection Limit	2.0	4.0	1.0	10.0	10.0	5.0	2.0	5.0	10.0	0.01	1.0	5.0	0.01	0.002	0.01	--
							Desirable Limit*	6.5-8.5	1	-	500	200	75	30	250	200	1	45	200	1	0.01	0.1	-
							Permissible Limit* in absence of alternate source	NR	5	-	2000	600	200	100	1000	600	NR	NR	400	1.5	NR	0.3	**
21	Rangra	Madrouni	Madrouni	Ward No.03	Ambedkar Nadar	25.396089	87.169867	7.69	<4.0	293.70	190	112	28.86	9.72	19.99	118	0.81	<1.0	6.20	0.10	0.005	ND	ND
22	Rangra	Madrouni	Madrouni	Madrouni/03	M.S.Sadhua	25.395293	87.147744	7.71	<4.0	377.40	246	188	43.28	19.44	31.98	124	0.79	<1.0	52.20	0.20	0.003	ND	ND
23	Narayanpur	Singhpur Paschim	Ganoul	Ganoul/12	Prakash Sah	25.393041	86.854501	7.49	<4.0	305.70	198	108	24.05	11.66	39.98	100	0.88	<1.0	19.10	0.10	0.002	ND	ND
24	Narayanpur	Singhpur Paschim	Navtolia	Navtolia/07	Kanhai Choudhary	25.391348	86.844465	7.59	<4.0	455.70	296	196	49.69	17.49	29.98	188	0.76	<1.0	12.80	0.14	0.005	ND	ND
25	Narayanpur	Jaypur Chuhar	Mathurapur	Mathurapur/15	Near Masjid	25.398896	86.868923	7.63	<4.0	482.40	312	220	60.92	16.52	49.97	206	0.91	<1.0	32.80	0.09	0.004	ND	ND
26	Narayanpur	SinghpurEast	SinghpurEast	SinghpurEast/05	Kuswaha Library	25.402893	86.883028	7.77	<4.0	618.70	402	256	56.11	28.19	37.98	246	0.90	<1.0	14.00	0.09	0.004	ND	ND
27	Bihpur	Marwa	Marwa Paschim	Marwa Paschim/02	Mahant Sthan chowk	25.400605	86.914984	7.80	<4.0	272.20	176	100	24.05	9.72	43.97	106	0.48	<1.0	22.30	0.07	0.002	ND	ND
28	Bihpur	Jamalpur	Jamalpur	Jamalpur/10	Basudev Singh	25.461584	86.90872	7.48	<4.0	532.60	346	204	41.68	24.30	33.98	248	0.44	<1.0	7.80	0.11	0.005	ND	ND
29	Bihpur	Sonbarsa	Bihpur Daschin	Bihpur Daschin/10	Kailsh Das	25.399079	86.912791	7.39	<4.0	323.70	210	104	25.65	9.72	23.98	196	0.58	<1.0	5.70	0.11	0.007	ND	ND
30	Kharik	Farisd pur	Faridpur	Faridpur/05	Near P.S chool	25.386392	87.015597	6.98	<4.0	322.00	208	104	25.65	9.72	29.98	142	0.35	<1.0	9.20	0.08	0.005	ND	ND
31	Kharik	Raghopur	Raghopur	Raghopur/13	Bajranwali Sthan	25.308951	87.028225	7.17	<4.0	457.50	298	200	40.08	24.30	25.98	128	0.69	<1.0	33.30	0.07	0.003	ND	ND
32	Kharik	Raghopur	ChotiAlalpur	ChotiAlalpur/01	WardNo13.	25.38592	87.010412	7.48	<4.0	633.30	412	268	57.71	30.13	27.98	342	0.74	<1.0	7.80	0.10	0.002	ND	ND
33	Kharik	Khairpur	Kajikoraiya	Kajikoraiya/03	Mukhlal Mandal	25.385586	87.010724	7.51	<4.0	332.40	216	124	27.25	13.61	23.98	190	0.80	<1.0	5.50	0.18	0.004	ND	ND

Note: * (i) Drinking Water Specification Second Revision -IS: 10500:2012.,ND=Not Done, NR=Not Required., ** Shall not be detectable in any 100 ml sample, *** These parameters are not included in Scope of Accreditation.
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—— END OF TEST REPORT ——

(Shubhankar Kumar Biswas)
Signature of Lab-In-charge
Lab-in-charge
SLWTL, P.H.E.D, Patna
Received By

Prepared by:	Approved by:	Issued by:	Page 2 of 2
Quality Manager	S.R.O cum Technical Manager	Research Assistant cum Lab-in-charge	Revision No.: 0
			Revision Date: Nil

BIHAR STATE POLLUTION CONTROL BOARD

Annexure - 5

Parivesh Bhawan, N.S.B.-2, Patliputra Industrial Area, Patliputra, Patna – 800010

Name of Drain	**Barari Ghat Drain, Bhagalpur 25.26993338 87.02689947**	**Pipalli Dham Drain 1, Bhagalpur 25.2695632 87.01719145**	**Khirni Drain, Bhagalpur 25.26222689 86.99605297**	**Koyal Ghat, Bhagalpur 25.26037577 86.9883925**	**Saklichand Drain, Bhagalpur 25.25408254 86.97347503**	**DN Singh Drain, Bhagalpur 25.24988547 86.97709635**	**Shamshan Ghat Drain, Kahalgaon 25.27018544 87.23104245**	**LCT Drain, Kahalgaon 25.26595525 87.2262325**
Date of Sampling	25-04-2022	25-04-2022	25-04-2022	25-04-2022	25-04-2022	25-04-2022	26-04-2022	26-04-2022
Parameters	**Analysis Report**							
Temperature (A/W)	40/31	40/32	39/31	38/30	37/29	37/30	41/31	14/30
pH	7.36	7.4	7.3	7.93	7.15	7.25	7.58	7.53
Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	-
Chloride (mg/L)	193.0	148.0	135.0	94.0	149.0	128.0	219.0	203.0
Phosphate (mg/L)	1.31	0.37	2.35	1.87	1.78	1.81	1.36	1.77
Sulphate (mg/L)	95.74	78.52	80.08	60.85	109.84	87.47	131.76	116.55
Nitrate as N (mg/L)	0.02	0.03	0.05	0.02	0.03	0.02	0.06	0.02
Ammonical Nitrogen as N (mg/L)	13.29	2.49	11.37	9.42	16.19	23.26	8.54	14.13
Fluoride (mg/L)	0.53	0.71	0.30	0.29	0.47	0.55	0.58	0.48
COD (mg/L)	68.0	68.0	120.0	144.0	136.0	108.0	132.0	120.0
BOD (mg/L)	10.0	12.0	24.0	28.0	26.0	20.0	30.0	22.0
TS (mg/L)	1120.0	1154.0	1054.0	1350.0	1022.0	918.0	1312.0	1316.0
TSS (mg/L)	112.0	78.0	176.0	484.0	92.0	84.0	148.0	112.0
TDS (mg/L)	1008.0	1076.0	878.0	866.0	930.0	834.0	1164.0	1204.0
TFS (mg/L)	806.0	820.0	737.8	972.0	725.62	642.6	944.64	934.36
TC (MPN/100 ml)	22×10^{5}	92×10^{6}	22×10^{8}	17×10^{11}	35×10^{7}	54×10^{8}	17×10^{8}	28×10^{6}
FC (MPN/100 ml)	11×10^{5}	28×10^{6}	13×10^{8}	4×10^{11}	13×10^{7}	2.2×10^{8}	7.9×10^{8}	17×10^{6}

Name of Drain	**Pampu Ghat Drain, Kahalgaon 25.26460298 87.22561682**	**Kagzi Drain, Kahalgaon 25.26130834 87.22544642**	**Kowa Drain, Kahalgaon 25.2519184 87.22980613**	**Masjid Drain at Sultanganj 25.253688 86.738753**	**Nill Kothi Drain, Bhagalpur 25.269847 87.020361**	**Pipalli Dham Drain 2, Bhagalpur 25.269515 87.016740**	**Surkil Khal Drain, Bhagalpur 25.264019 86.997095**	**Addampur Drain, Bhagalpur 25.258119 86.982359**
Date of Sampling	26-04-2022	26-04-2022	26-04-2022	26-04-2022	26-04-2022	26-04-2022	27-04-2022	27-04-2022
Parameters	**Analysis Report**							
Temperature (A/W)	42/31	43/30	43/30	41/30	39/31	37/30	39/31	39/30
pH	7.53	7.67	8.02	7.39	7.52	7.53	7.14	8.18
Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	-
Chloride (mg/L)	116.0	186.0	186.0	86.0	264.9	108.0	148.0	114.0
Phosphate (mg/L)	1.15	1.35	0.21	0.21	2.35	0.31	3.17	0.47
Sulphate (mg/L)	89.03	170.57	92.39	241.60	95.74	85.90	39.37	101.56
Nitrate as N (mg/L)	0.03	ND	0.05	0.70	ND	0.01	0.02	ND
Ammonical Nitrogen as N (mg/L)	11.41	10.42	0.71	9.47	11.41	6.50	10.93	8.24
Fluoride (mg/L)	0.12	0.26	1.06	0.70	0.34	0.46	ND	0.24
COD (mg/L)	112.0	40.0	80.0	260.0	140.0	84.0	64.0	124.0
BOD (mg/L)	23.0	8.0	17.0	54.0	32.0	18.0	14.0	27.0
TS (mg/L)	1038.0	1476.0	666.0	1448.0	1082.0	1936.0	1014.0	932.0
TSS (mg/L)	94.0	262.0	74.0	128.0	288.0	1094.0	146.0	292.0
TDS (mg/L)	944.0	1214.0	592.0	1320.0	794.0	842.0	868.0	640.0
TFS (mg/L)	726.6	1060.0	472.0	1014.0	778.0	1374.0	710.0	672.0
TC (MPN/100 ml)	35×10^{7}	11×10^{8}	2800.0	35×10^{8}	11×10^{7}	24×10^{5}	35×10^{7}	92×10^{6}
FC (MPN/100 ml)	13×10^{7}	2.7×10^{8}	1700.0	22×10^{8}	3.3×10^{7}	7.9×10^{5}	11×10^{7}	28×10^{6}

Name of Drain	**Miya Badi Drain, Bhagalpur 25.251420 86.945500**	**Hathiya Drain, Near Bhagalpur University 25.249609 86.960570**	**Hathiya Nala, Near Water Intake Point 25.268738 87.012559**	**Champa Nala Drain 1, Bhagalpur 25.241750 86.923820**	**Champa Nala Drain 2, Bhagalpur 25.240640 86.923120**	**Kuppa Ghat Drain, Bhagalpur 25.267507 87.005912**	**STP Drain, Bhagalpur 25.250685 86.960570**
Date of Sampling	27-04-2022	28-04-2022	28-04-2022	28-04-2022	28-04-2022	28-04-2022	28-04-2022
Parameters	**Analysis Report**						
Temperature (A/W)	40/31	42/30	41/31	41/31	41/30	41/30	41/30
pH	7.69	7.84	7.23	7.45	7.38	7.3	7.39
Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-
Chloride (mg/L)	122.0	226.9	247.9	189.0	101.0	106.0	163.0
Phosphate (mg/L)	4.45	2.07	2.72	2.73	3.70	3.28	1.84
Sulphate (mg/L)	95.30	92.16	96.01	84.56	70.24	92.16	117.67
Nitrate as N (mg/L)	0.02	ND	ND	0.01	ND	0.01	ND
Ammonical Nitrogen as N (mg/L)	13.11	13.95	16.94	16.62	28.07	17.23	9.93
Fluoride (mg/L)	ND	0.55	0.23	0.21	0.02	0.05	0.37
COD (mg/L)	160.0	76.0	300.0	244.0	680.0	116.0	160.0
BOD (mg/L)	36.0	16.0	80.0	42.0	130.0	33.0	28.0
TS (mg/L)	2224.0	1150.0	1576.0	1170.0	1216.0	1228.0	1256.0
TSS (mg/L)	1110.0	86.0	542.0	292.0	348.0	294.0	154.0
TDS (mg/L)	1114.0	1064.0	1034.0	878.0	868.0	934.0	1102.0
TFS (mg/L)	1580.0	806.0	1134.0	830.0	852.0	884.0	892.0
TC (MPN/100 ml)	11×10^{4}	28×10^{5}	14×10^{9}	92×10^{9}	35×10^{7}	7×10^{5}	16×10^{10}
FC (MPN/100 ml)	2.7×10^{4}	17×10^{5}	3.3×10^{9}	28×10^{9}	13×10^{7}	2.1×10^{5}	3.5×10^{10}

Name of Drain	**Rani Ghat Drain, Patna 25.620535 85.176755**	**Ghagha Ghat Drain, Patna 25.620357 85.180836**	**Masjid Ghat Drain, Patna 25.619801 85.184585**	**Raghopur Dogar Drain, Bakhtiyarpur 25.462880 85.541743**	**Gauri Shankar Drain, Barh 25.486780 85.708964**	**Malinia Ghat Drain, Barh 25.483260 85.706472**	**Salempur Drain, Barh 25.481579 85.705949**	**Dhobiya Ghat Drain, Barh 25.485165 85.707543**
Date of Sampling	09-05-2022	09-05-2022	09-05-2022	09-05-2022	09-05-2022	09-05-2022	09-05-2022	09-05-2022
Parameters	**Analysis Report**							
Temperature (A/W)	NA	NA	NA	29/27	32/30	34/32	34/32	35/33
pH	6.78	7.19	7.57	7.44	7.5	7.3	7.16	7.48
Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	-
Chloride (mg/L)	39.0	75.0	135.0	148.0	96.0	100.0	113.0	71.0
Phosphate (mg/L)	2.63	2.98	2.25	3.13	0.78	2.34	2.76	1.08
Sulphate (mg/L)	22.03	34.90	47.98	63.64	89.93	58.16	48.77	46.98
Nitrate as N (mg/L)	0.04	ND	ND	0.04	0.03	0.05	0.03	0.02
Ammonical Nitrogen as N (mg/L)	20.72	26.56	26.94	28.94	9.55	30.22	40.31	21.11
Fluoride (mg/L)	0.11	0.37	0.18	0.91	ND	0.55	0.62	0.96
COD (mg/L)	128.0	144.0	56.0	80.0	512.0	24.0	64.0	76.0
BOD (mg/L)	26.0	30.0	10.0	18.0	160.0	5.0	10.0	14.0
TS (mg/L)	1014.0	924.0	1022.0	1558.0	1618.0	762.0	828.0	830.0
TSS (mg/L)	210.0	120.0	90.0	912.0	286.0	40.0	34.0	174.0
TDS (mg/L)	804.0	804.0	932.0	646.0	1332.0	722.0	794.0	656.0
TFS (mg/L)	718.0	646.0	718.0	1106.0	1164.0	552.0	582.0	588.0
TC (MPN/100 ml)	16×10^{10}	54×10^{8}	92×10^{10}	54×10^{6}	54×10^{9}	92×10^{7}	92×10^{8}	35×10^{7}
FC (MPN/100 ml)	2.2×10^{10}	35×10^{8}	14×10^{10}	13×10^{6}	35×10^{9}	17×10^{7}	35×10^{8}	4.9×10^{7}

Name of Drain	**Peepal Ghat Drain, Barh 25.472465 85.700289**	**Tapashwi Ghat Drain, Mokama 25.402381 85.916733**	**Gai Ghat Drain, Patna 25.613783 85.203519**	**Goshai Ghat Drain, Patna 25.614774 85.199712**	**Loharwa Ghat Drain, Patna 25.615738 85.197291**	**Bhadra Ghat Drain, Patna 25.611334 85.207196**	**Mahavir Ghat Drain, Patna 25.609797 85.211130**	**Nauzar Ghat Drain, Patna 25.608978 85.211872**
Date of Sampling	09-05-2022	10-05-2022	10-05-2022	10-05-2022	10-05-2022	10-05-2022	10-05-2022	10-05-2022
Parameters	**Analysis Report**							
Temperature (A/W)	36/32	35/32	31/30	32/30	33/30	33/29	Mar-30	35/30
pH	7.29	7.21	7.28	7.14	7.46	7.56	7.47	7.2
Electrical Conductivity (µS/cm)	-	-	-	-	-	-	-	-
Chloride (mg/L)	95.0	58.0	16.0	37.0	73.0	111.0	48.0	28.0
Phosphate (mg/L)	2.44	2.43	0.15	1.82	2.18	0.32	0.51	1.91
Sulphate (mg/L)	25.84	37.36	21.36	23.38	56.71	38.48	45.19	49.33
Nitrate as N (mg/L)	0.04	ND	0.23	0.06	0.02	ND	ND	0.03
Ammonical Nitrogen as N (mg/L)	36.13	18.79	12.73	3.61	7.88	18.75	10.85	1.21
Fluoride (mg/L)	0.69	0.15	0.26	0.47	0.60	0.94	0.95	0.47
COD (mg/L)	24.0	72.0	44.0	80.0	72.0	36.0	28.0	40.0
BOD (mg/L)	5.0	14.0	8.0	14.0	14.0	6.0	5.0	8.0
TS (mg/L)	764.0	1042.0	528.0	696.0	858.0	668.0	682.0	642.0
TSS (mg/L)	38.0	238.0	98.0	152.0	128.0	24.0	18.0	136.0
TDS (mg/L)	726.0	804.0	430.0	544.0	730.0	644.0	664.0	506.0
TFS (mg/L)	548.0	752.0	372.0	504.0	610.0	474.0	486.0	454.0
TC (MPN/100 ml)	92×10^{6}	16×10^{8}	16×10^{9}	92×10^{9}	92×10^{6}	16×10^{7}	35×10^{8}	54×10^{8}
FC (MPN/100 ml)	22×10^{6}	3.5×10^{8}	3.5×10^{9}	24×10^{9}	54×10^{6}	5.4×10^{7}	22×10^{8}	24×10^{8}

Name of Drain	**Balu Ghat Drain near Gulabi Ghat, Patna** **25.620025** **85.181023**	**Kali Ghat Drain Sammaspur, Patna** **25.517223** **85.300374**	**Mastana Ghat Drain, Patna** **25.512176** **85.304482**	**Devanti Ghat Drain, Patna** **25.511557** **85.306314**	**Sarinpur Drain, Buxar** **25.583973** **83.986145**	**Sidnath Drain, Buxar** **25.580486** **83.980550**	**Sati Ghat Drain, Buxar** **25.578728** **83.975966**
Date of Sampling	11-05-2022	11-05-2022	11-05-2022	11-05-2022	09-05-2022	09-05-2022	09-05-2022
Parameters	**Analysis Report**						
Temperature (A/W)	33/31	37/31	37/32	37/30	35/31	36/31	37/32
pH	6.98	7.01	7.15	7.46	7.52	7.28	7.67
Electrical Conductivity (µS/cm)	-	-	-	-	1230	1030	1100
Chloride (mg/L)	65	80	112	170	110.0	91.0	94.0
Phosphate (mg/L)	3.26	1.82	2.74	0.23	0.33	0.38	2.21
Sulphate (mg/L)	32.44	51.12	55.59	74.38	35.01	40.49	23.04
Nitrate as N (mg/L)	0.03	ND	ND	0.46	0.01	0.02	ND
Ammonical Nitrogen as N (mg/L)	30.28	23.72	18.04	15.05	28.30	4.80	39.79
Fluoride (mg/L)	ND	0.08	0.28	0.45	1.12	0.99	0.22
COD (mg/L)	96.0	60.0	52.0	48.0	68.0	40.0	76.0
BOD (mg/L)	22.0	10.0	8.0	8.0	14.0	10.0	18.0
TS (mg/L)	1326.0	912.0	954.0	1270.0	776.0	710.0	796.0
TSS (mg/L)	252.0	88.0	46.0	38.0	20.0	28.0	82.0
TDS (mg/L)	1074.0	824.0	908.0	1232.0	756.0	682.0	714.0
TFS (mg/L)	944.0	644.0	688.0	898.0	558.0	512.0	570.0
TC (MPN/100 ml)	54×10^{15}	92×10^{9}	92×10^{10}	22×10^{9}	17×10^{7}	54×10^{5}	16×10^{9}
FC (MPN/100 ml)	35×10^{15}	35×10^{9}	35×10^{10}	11×10^{9}	4.9×10^{7}	24×10^{5}	2.8×10^{9}

Name of Drain	**Bagala Ghat Drain, Buxar**	**Tadka Drain, Buxar**	**Nath Baba Drain, Buxar**	**Danapur Cantt Drain, Patna**	**Digha Ghat Drain, Patna**	**Kurzi Drain, Patna**	**Rajapur Drain, Patna**	**Bans Ghat Drain, Patna**
	25.578392	**25.574660**	**25.572107**	**25.639792**	**25.648981**	**25.645543**	**25.623714**	**25.622302**
	83.975442	**83.972256**	**83.968007**	**85.044241**	**85.080238**	**85.105737**	**85.124566**	**85.133857**
Date of Sampling	09-05-2022	09-05-2022	09-05-2022	10-05-2022	10-05-2022	10-05-2022	10-05-2022	10-05-2022
Parameters	**Analysis Report**							
Temperature (A/W)	34/30	36/31	37/35	37/35	38/36	38/36	37/34	36/34
pH	7.22	6.87	7.61	7.73	7.55	7.17	7.21	7.05
Electrical Conductivity (µS/cm)	869	1340	1030	745	850	791	684	721
Chloride (mg/L)	79.0	138.0	194.0	117.0	82.0	65.0	58.0	65.0
Phosphate (mg/L)	1.40	1.94	0.28	0.21	0.39	0.54	0.45	1.26
Sulphate (mg/L)	42.50	43.29	37.25	46.42	25.17	24.94	28.75	26.06
Nitrate as N (mg/L)	ND	ND	ND	ND	0.03	ND	ND	ND
Ammonical Nitrogen as N (mg/L)	40.43	40.25	17.63	16.05	17.33	15.85	11.88	15.11
Fluoride (mg/L)	0.89	0.32	0.95	0.80	0.90	0.77	0.95	0.92
COD (mg/L)	56.0	100.0	36.0	76.0	44.0	32.0	32.0	36.0
BOD (mg/L)	12.0	28.0	8.0	18.0	10.0	8.0	8.0	8.0
TS (mg/L)	728.0	1148.0	712.0	834.0	634.0	612.0	552.0	642.0
TSS (mg/L)	78.0	74.0	22.0	124.0	30.0	56.0	50.0	92.0
TDS (mg/L)	650.0	1074.0	690.0	710.0	604.0	556.0	502.0	550.0
TFS (mg/L)	516.0	816.0	504.0	602.0	448.0	436.0	390.0	456.0
TC (MPN/100 ml)	16×10^{9}	16×10^{8}	54×10^{7}	22×10^{7}	35×10^{8}	92×10^{8}	92×10^{9}	54×10^{8}
FC (MPN/100 ml)	3.5×10^{9}	3.5×10^{8}	17×10^{7}	11×10^{7}	22×10^{8}	28×10^{8}	54×10^{9}	17×10^{8}

Name of Drain	**Collectorate Ghat Drain, Patna** **25.622206** **85.150345**	**Barharwa Ghat Drain, Patna** **25.621373** **85.1753383**	**Mitan Ghat Drain, Patna** **25.606148** **85.217798**	**Kataiya Ghat Drain at Fatuha** **25.511230** **85.308223**	**Makshudpur Drain (East of Bindeshwaro Ghat) at Fatuha** **25.509169** **85.324146**	**Makshudpur Drain (West) at Fatuha** **25.509084** **85.323754**	**Chaudhari Ghat Drain, Mokama** **25.400891** **85.918517**	**Kamleshwari Asthan Drain, Mokama** **25.401095** **85.919996**
Date of Sampling	10-05-2022	10-05-2022	10-05-2022	12-05-2022	12-05-2022	12-05-2022	11-05-2022	11-05-2022
Parameters	**Analysis Report**							
Temperature (A/W)	36/34	35/33	34.2/32.3	29/29	34/31	32/30	31/30	33/31
pH	7.06	7.44	7.11	7.41	7.23	7.32	7.09	7.14
Electrical Conductivity (µS/cm)	740	936	867	-	-	-	-	-
Chloride (mg/L)	64.0	81.0	67.0	58.0	108.0	83.0	79.0	63.0
Phosphate (mg/L)	0.96	1.18	2.81	1.06	1.91	1.11	3.02	2.31
Sulphate (mg/L)	27.40	54.58	60.62	64.98	99.21	78.74	46.53	43.40
Nitrate as N (mg/L)	0.04	ND	0.02	ND	ND	ND	ND	ND
Ammonical Nitrogen as N (mg/L)	28.95	25.61	26.04	29.35	30.39	12.64	48.31	34.16
Fluoride (mg/L)	0.81	0.96	0.97	0.05	ND	ND	ND	0.15
COD (mg/L)	56.0	64.0	176.0	40.0	100.0	68.0	56.0	192.0
BOD (mg/L)	10.0	12.0	28.0	10.0	24.0	14.0	12.0	40.0
TS (mg/L)	584.0	852.0	910.0	470.0	1024.0	764.0	868.0	932.0
TSS (mg/L)	60.0	170.0	224.0	60.0	190.0	80.0	68.0	236.0
TDS (mg/L)	524.0	682.0	686.0	410.0	834.0	684.0	800.0	696.0
TFS (mg/L)	410.0	616.0	654.0	332.0	738.0	550.0	614.0	664.0
TC (MPN/100 ml)	35×10^{9}	22×10^{9}	16×10^{8}	92×10^{7}	92×10^{11}	54×10^{10}	16×10^{7}	63×10^{8}
FC (MPN/100 ml)	11×10^{9}	11×10^{9}	3.5×10^{8}	17×10^{7}	17×10^{11}	17×10^{10}	1.7×10^{7}	21×10^{8}

Bihar State Pollution Control Board

Parivesh Bhawan, NSB-2, Patliputra Industrial Area
Patliputra, Patna-800 010
Water Quality Status under NWMP
Name of Monitoring Agency-BSPCB
Name of State-Bihar
Monitoring Month September, 2022

Sampling Date	Name Of Monitoring Location	Latitude	Longitude	Type Water Body	Name Of WaterBody	District	Temperature	Dissolved O2 (mg/L)	pH	Conductivity (µmho/cm)	BOD (mg/L)	NitrateN (mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)	Fecal Streptococci (MPN/100ml)	E.Coli (MPN/100ml)	Turbidity (mg/L)	Total Alkalinity (mg/L)	Chlorides (mg/L)	COD (mg/L)	Ammonical-N (mg/L)	Total Hardness (mg/L)	Ca as CaCo3 (mg/L)	Mg as CaCo3 (mg/L)	Sulphate (mg/L)	Total Dissolved Solids (mg/L)	Total Fixed Solids (mg/L)	Total Suspended Solids (mg/L)	Phosphate (mg/L)	Fluoride (mg/L)
19-09-2022	RIVER GANGA AT UMA NATH MANDIR,BARH	25.487275	85.705236	RIVER	GANGA	PATNA	25	7	7.82	193	1.3	0.3	17000	22000	490	11000	491.5	112	19	12	0.4	96	18.4	12.1	52.91	132	436	484	0.2	0
09-09-2022	RIVER GANGA AT MAA AMBIKA ASTHAN, AAMI, SARAN	25.740235	84.963161	RIVER	GANGA	SARAN	27	7.2	6.99	197	1.3	0.3	3300	4600	79	1700	907	90	7	12	0.4	100	29.6	6.3	30.87	100	700	886	0.2	0
09-09-2022	RIVER GANGA AT ARA- CHAPRA ROAD BRIDGE (KOIILWAR BARHARA-CHAPRA ROAD)	25.721891	84.81188	RIVER	GANGA	BHOJPUR/SARAN	27	6.7	6.96	252	2	0.3	3500	5400	350	1700	361	156	19	20	0.4	162	31.2	20.4	27.63	170	384	368	0.2	0
27-09-2022	RIVER UNPUN NEAR PUNPUN ROAD BRIDGE, PUNPUN	25.513517	85.292658	RIVER	PUNPUN	PATNA	29	5.9	7.46	198	2.6	0.48	3300	7900	NA	NA	92.6	104	12	24	0.4	108	22.42	12.63	32.1	134	158	84	0.2	0
14-09-2022	RIVER RAMREKHA AT HARINAGAR, WEST CHAMPARAN	27.170083	84.322471	RIVER	RAMREKHA	WEST CHAMPARAN	26	2.6	7.1	290	3	0.3	350000	920000	NA	NA	14.7	158	22	46.4	0.4	146	46.5	7.3	25.17	200	156	18	0.2	0

26-09-2022	RIVER PUNPUN AT KINJAR ROAD BRIDGE, JEHANABAD-ARWAL BORDER , JEHANABAD	25.217822	84.826131	RIVER	PUNPUN	PATNA	32	6.4	7.31	188	2	0.45	1300	3300	NA	NA	58.6	118	13	16	0.4	130	34.4	10.7	22.48	128	138	64	0.2	0
26-09-2022	RIVER PUNPUN AT OBRA, AURANGABAD	24.898673	84.375453	RIVER	PUNPUN	AURANGABAD	30	6	7.53	176	2	0.3	13000	17000	NA	NA	209.2	90	14	20	0.4	126	35.2	9.2	31.09	120	248	224	0.22	0
16-09-2022	RIVER GANGA AT D/S BHAGALPUR NEAR BARARIGHAT	25.271603	87.025665	RIVER	GANGA	BHAGALPUR	28	6.8	7.26	240	1.6	0.3	1300	2400	7	490	312.8	138	17	12	0.4	122	30.4	11.2	28.86	168	334	284	0.2	0
16-09-2022	RIVER GANGA AT BHAGALPUR, OPP. KUPPA GHAT	25.321869	86.999389	RIVER	GANGA	BHAGALPUR	26	7.4	7.14	220	1.1	0.3	240000	540000	110	130000	378.2	124	13	8	0.4	114	24	13.1	14.76	150	364	356	0.2	0
17-09-2022	RIVER GANGA AT CHAMPANAGAR, RASIDPUR, BHAGALPUR	25.268261	86.940085	RIVER	GANGA	BHAGALPUR	28	6.3	7.28	248	2	0.3	92000	160000	170	24000	58.6	140	12	20	0.4	128	33.6	10.7	38.25	168	170	68	0.2	0
22-09-2022	RIVER GANGA AT ARA- CHAPRA ROAD BRIDGE (KOIILWAR BARHARA-CHAPRA ROAD)	25.721891	84.81188	RIVER	GANGA	BHOJPUR/SARAN	28	6.6	7.53	199	2	0.3	1700	2200	79	780	406	96	8	20	0.4	106	27.2	9.2	28.86	138	398	422	0.2	0
22-09-2022	RIVER GANGA AT THE BALUGHAT, DORIGANJ, SARAN	25.728923	84.831863	RIVER	GANGA	SARAN	32	6.1	7.69	203	2.5	0.3	7900	14000	1300	2200	399.5	100	8	24	0.4	100	32	4.9	30.42	140	368	378	0.2	0
21-09-2022	RIVER GANGA CHUSA AT BUXAR	25.573508	83.966669	RIVER	GANGA	BUXAR	29	8.1	7.89	277	1	0.3	92000	160000	2400	54000	506	120	24.99	8	0.4	140	31.2	15.1	36.57	190	478	478	0.2	0
16-09-2022	RIVER GANGA AT WATER INTAKE POINT, BHAGALPUR	25.2696622	87.0152573	RIVER	GANGA	BHAGALPUR	30	7.5	7.19	210	1.2	0.3	17000	35000	68	13000	258.4	118	14	8	0.4	110	28	9.7	26.73	142	324	276	0.2	1
21-09-2022	RIVER GANGA AT BUXAR, RAMREKHAGHAT	25.576142	83.970428	RIVER	GANGA	BUXAR	28	7.5	8.01	252	1.8	0.3	24000	35000	3500	13000	254.5	112	19	12	0.4	120	29.6	11.2	29.86	172	312	266	0.2	0

15-09-2022	RIVER SIRSIYA AT RAXAUL,BIRGANJ CHECK POST ROAD BRIDGE EAST CHAMPARAN	26.988061	84.855244	RIVER	SIRSIYA (GANGA)	EAST CHAMPARAN	26	1.3	7.45	418	8	0.3	350000	920000	NA	NA	32.5	188	61	44	2.11	170	48.1	12.1	18.01	284	234	42	0.2	0
21-09-2022	RIVER GANGA AT U/S JAIL GHAT, BUXAR	25.561456	83.949661	RIVER	GANGA	BUXAR	29	7.7	7.83	208	1.7	0.3	17000	22000	1300	7900	197.5	90	13	12	0.4	98	28	6.8	29.42	142	232	180	0.2	0
15-09-2022	RIVER SIRSIYA D/S RAXAUL (KOERIA TOLA), EAST CHAMPARAN	26.98375	84.857739	RIVER	SIRSIYA (GANGA)	EAST CHAMPARAN	27	0.3	7.24	411	9	0.3	350000	540000	NA	NA	30.4	190	53	52	1.23	176	53.7	10.2	33.89	280	228	36	0.2	0
21-09-2022	RIVER GANGA AT D/S BUXAR NEAR VEER KUNWAR SINGH ROAD BRIDGE	25.588972	83.985861	RIVER	GANGA	BUXAR	27	7.3	7.76	269	1.7	0.3	54000	92000	1300	24000	184.5	114	22	12	0.4	116	30.4	9.7	28.86	182	244	162	0.24	0
23-09-2022	RIVER GANGA NEAR DANAPUR (NEAR PIPA PUL) ,PATNA	25.657157	85.049409	RIVER	GANGA	PATNA	28	6.6	7.42	270	2.1	0.31	13000	24000	350	4900	261.5	108	19	20	0.4	130	36	9.7	44.29	184	308	242	0.31	0
23-09-2022	RIVER GANGA AT GANDHIGHAT, NIT PATNA	25.622179	85.172816	RIVER	GANGA	PATNA	29	6.5	7.6	212	2.6	0.3	170000	350000	5400	40000	361.5	116	13	24	0.4	126	35.2	9.2	40.94	146	340	332	0.24	0
14-09-2022	RIVER HARBORA,U/S AT NARKATIAGANJ, WEST CHAMPARAN	27.116527	84.460063	RIVER	HARBORA	WEST CHAMPARAN	27	7.7	7.7	297	1.2	0.3	54000	160000	NA	NA	38.6	162	12	8	0.4	182	33.6	23.8	15.66	202	178	42	0.2	0
14-09-2022	RIVER HARBORA D/S AT NARKATIAGANJ, WEST CHAMPARAN	27.105529	84.454541	RIVER	HARBORA	WEST CHAMPARAN	28	6.8	7.84	306	2	0.3	17000	35000	NA	NA	57.6	198	11	20	0.4	186	46.5	17	18.12	208	196	64	0.2	0
08-09-2022	RIVER GANGA CHUSA AT BUXAR	25.573508	83.966669	RIVER	GANGA	BUXAR	27	6	7.13	228	2.5	0.3	92000	160000	220	28000	333	136	15	24	0.4	140	29.6	16	36.02	156	358	342	0.2	0
14-09-2022	RIVER RAMREKHA AT U/S HARINAGAR, WEST CHAMPARAN	27.161347	84.331514	RIVER	RAMREKHA	WEST CHAMPARAN	26	2.9	7.02	280	3	0.3	350000	540000	NA	NA	21.8	152	22	24	0.4	138	41.6	8.3	21.14	190	152	26	0.2	0

23-09-2022	RIVER GANGA AT GULABI GHAT, PATNA	25.620356	85.179995	RIVER	GANGA	PATNA	29	6.2	7.28	258	2.7	0.3	130000	240000	9200	79000	382	116	28.99	24	0.4	122	31.2	10.7	42.06	176	376	348	0.36	0
09-09-2022	RIVER GANGA AT THE BALUGHAT, DORIGANJ, SARAN	25.728923	84.831863	RIVER	GANGA	SARAN	27	7.2	7.08	187	1.5	0.3	7900	13000	350	4900	826	106	6	12	0.4	104	28.8	7.8	29.53	126	684	836	0.2	0
19-09-2022	RIVER GANGA U/S OF M/S NTPC, BARH WATER INTAKE POINT, BARH	25.49475	85.714068	RIVER	GANGA	PATNA	25	7.2	7.33	191	1	0.3	240000	540000	1300	130000	211	118	19	8	0.4	104	19.2	13.6	53.58	130	258	228	0.23	0
16-09-2022	RIVER GANGA, JHAJGHAT AT KAHALGAON	25.267334	87.227318	RIVER	GANGA	BHAGALPUR	28	6.7	7.35	230	1.7	0.3	240000	540000	4	130000	578.8	132	16	12	0.4	118	23.2	14.6	34.9	164	532	584	0.2	1
23-09-2022	RIVER GANGA AT PATNA D/S (GANGA BRIDGE), GAIGHAT, PATNA	25.613753	85.204131	RIVER	GANGA	PATNA	29	6.9	7.35	224	1.9	0.3	8400	15000	1300	2600	431	124	17	20	0.4	134	28.8	15.1	46.08	154	410	416	0.22	0
08-09-2022	RIVER GANGA AT BUXAR, RAMREKHAGHAT	25.576142	83.970428	RIVER	GANGA	BUXAR	27	5.2	7.01	228	2.7	0.3	350000	540000	230	170000	331	136	17	28	0.4	140	30.4	15.5	30.65	152	354	344	0.2	0
23-09-2022	RIVER GANGA AT MALSALAMI, PATNA CITY, PATNA	25.557806	85.275648	RIVER	GANGA	PATNA	28	5.9	7.6	246	2.3	0.3	7900	13000	350	4900	223	114	20	24	0.4	122	30.4	11.2	44.07	174	288	234	0.23	0
08-09-2022	RIVER GANGA AT U/S JAIL GHAT, BUXAR	25.561456	83.949661	RIVER	GANGA	BUXAR	28	5.4	7.1	206	2.2	0.3	3300	13000	13	1700	343.5	124	14	24	0.4	130	29.6	13.6	28.07	136	356	356	0.2	0
08-09-2022	RIVER GANGA AT D/S BUXAR NEAR VEER KUNWAR SINGH ROAD BRIDGE	25.588972	83.985861	RIVER	GANGA	BUXAR	27	5.8	6.98	231	2.5	0.3	240000	540000	330	130000	307.5	140	16	24	0.4	150	28	19.4	30.09	158	342	322	0.25	0
09-09-2022	RIVER GANGA NEAR DANAPUR (NEAR PIPA PUL) ,PATNA	25.657157	85.049409	RIVER	GANGA	PATNA	28	5.4	6.97	255	2.3	0.3	35000	54000	350	17000	249	130	18	24	0.4	124	22.4	16.5	45.75	172	306	256	0.22	1

09-09-2022	RIVER GANGA AT GANDHIGHAT, NIT PATNA	25.622179	85.172816	RIVER	GANGA	PATNA	28	6	6.98	197	2.1	0.3	92000	160000	240	35000	343	114	18	20	0.4	110	20.8	14.1	43.85	132	348	354	0.25	0
23-09-2022	RIVER GANGA AT DIGHA, NEAR J P SETU, PATNA U/S	25.65334	85.094792	RIVER	GANGA	PATNA	29	6.9	7.58	232	1.7	0.3	92000	160000	5400	35000	296	116	20	16	0.4	136	39.2	9.2	47.2	158	304	274	0.24	0
09-09-2022	RIVER GANGA AT GULABI GHAT, PATNA	25.620356	85.179995	RIVER	GANGA	PATNA	28	6.1	7.08	233	1.8	0.3	54000	92000	130	24000	371.5	128	15	16	0.4	120	24	14.6	42.28	158	378	376	0.23	0
09-09-2022	RIVER GANGA AT PATNA D/S (GANGA BRIDGE), GAIGHAT, PATNA	25.613753	85.204131	RIVER	GANGA	PATNA	28	5.8	7.12	214	2.5	0.3	350000	540000	240	13000	410	114	16	24	0.4	114	20	15.5	51.79	144	408	422	0.35	0
09-09-2022	RIVER GANGA AT MALSALAMI, PATNA CITY, PATNA	25.557806	85.275648	RIVER	GANGA	PATNA	29	6.2	7.16	223	2.1	0.3	17000	35000	79	7900	198	114	15	20	0.4	110	23.2	12.6	44.74	150	268	224	0.23	0
19-09-2022	RIVER GANGA D/S OF M/S NTPC, BARH WATER INTAKE POINT,PATHANICHAK, BINDTOLA BARH	25.487987	85.821429	RIVER	GANGA	PATNA	25	7.1	7.66	188	1.3	0.3	350000	540000	490	130000	313.5	92	16	12	0.4	122	29.6	11.7	48.65	128	336	336	0.2	1
09-09-2022	RIVER GANGA AT DIGHA, NEAR J P SETU, PATNA U/S	25.65334	85.094792	RIVER	GANGA	PATNA	28	6	7.21	212	2.1	0.3	22000	28000	110	17000	283	120	13	20	0.4	116	20.8	15.5	51.79	144	312	292	0.3	0
09-09-2022	RIVER GANGA AT TRIVENI GHAT, PATNA	25.515132	85.301372	RIVER	GANGA	PATNA	30	6	7.14	227	2.2	0.3	1700	3300	45	1100	376	112	17	20	0.4	104	28	8.3	31.21	154	384	384	0.2	0
09-09-2022	RIVER GANGA AT KEWALA GHAT,FATUHA, PATNA	25.511611	85.307417	RIVER	GANGA	PATNA	29	5.8	7.34	231	2.5	0.3	3300	4900	14	1300	280	120	15	24	0.4	126	23.2	16.5	52.23	156	318	288	0.35	1
09-09-2022	RIVER GANGA AT KACHCHI-DARGAH-BIDUPUR NEAR ROAD BRIDGE, PATNA	25.548238	85.279377	RIVER	GANGA	PATNA	29	6.3	7.33	221	1.7	0.3	92000	160000	110	28000	221	124	17	16	0.4	116	24.8	13.1	44.52	150	278	232	0.23	0

05-09-2022	RIVER GANGA AT BAKHTIYARPUR-TAJPUR BRIDGE ON GANGA, ATHMALGOLA, PATNA	25.482778	85.627962	RIVER	GANGA	PATNA	28	5.4	7.92	244	2.9	0.3	35000	160000	130	7900	157	118	14	28	0.4	110	20	14.6	34.45	166	242	166	0.2	0
05-09-2022	RIVER GANGA AT MOKAMA (U/S), MAHADEO ASTHAN, PATNA	25.401104	85.923198	RIVER	GANGA	PATNA	29	5.4	7.29	243	2.6	0.3	11000	17000	790	7900	120.4	136	14	24	0.4	120	29.6	11.2	29.3	166	220	128	0.2	0
03-09-2022	RIVER GANGA AT MOKAMA (D/S), NEAR RAJENDRA BRIDGE , SIMIRIYA GHAT	25.381441	85.987169	RIVER	GANGA	PATNA	28	5.7	7.4	199	2.8	0.3	7900	13000	1100	2700	341.2	126	16	28	0.4	116	28	11.2	25.61	136	346	348	0.2	0
23-09-2022	RIVER GANGA AT TRIVENI GHAT, PATNA	25.515132	85.301372	RIVER	GANGA	PATNA	28	6.6	7.23	242	1.9	0.3	54000	92000	3500	35000	261.5	110	10	16	0.4	126	28	13.6	40.83	166	290	248	0.2	0
23-09-2022	RIVER GANGA AT KEWALA GHAT,FATUHA, PATNA	25.511611	85.307417	RIVER	GANGA	PATNA	27	6.2	7.47	236	2	0.3	54000	160000	1700	24000	286	108	14	20	0.4	112	35.2	5.8	38.7	162	312	272	0.37	0
05-09-2022	RIVER GANGA AT UMA NATH MANDIR,BARH	25.487275	85.705236	RIVER	GANGA	PATNA	28	5.6	7.49	220	2.5	0.3	54000	92000	330	35000	474.5	104	14	24	0.4	92	15.2	13.1	43.17	150	482	484	0.2	1
16-09-2022	RIVER GANGA D/S NEAR CREMATION GHAT, KHALGOAN	25.273273	87.235165	RIVER	GANGA	BHAGALPUR	29	6.6	7.47	225	2.1	0.3	35000	54000	68	13000	565.8	128	16	20	0.4	120	22.4	15.5	27.74	156	502	542	0.2	0
05-09-2022	RIVER GANGA U/S OF M/S NTPC, BARH WATER INTAKE POINT, BARH	25.49475	85.714068	RIVER	GANGA	PATNA	28	5.5	7.73	225	2.6	0.3	130000	240000	3500	49000	257	114	16	28	0.4	100	16	14.6	41.16	154	310	268	0.2	0
05-09-2022	RIVER GANGA D/S OF M/S NTPC, BARH WATER INTAKE POINT,PATHANICHAK, BINDTOLA BARH	25.487987	85.821429	RIVER	GANGA	PATNA	29	5	7.02	241	2.5	0.3	54000	92000	330	35000	142.5	132	14	24	0.4	112	32	7.8	31.43	164	226	154	0.2	0
05-09-2022	RIVER GANGA AT BARAHIYA, NEPALITOLA, MARANCHI, HATHIDAH AT MOKAMA, PATNA	25.315313	86.029821	RIVER	GANGA	MUZAFFARPUR	29	5.1	7.42	224	2.9	0.3	54000	160000	1100	35000	172	134	15	28	0.4	120	20	17	36.46	152	240	180	0.2	1

23-09-2022	RIVER GANGA AT KACHCHI-DARGAH-BIDUPUR NEAR ROAD BRIDGE, PATNA	25.548238	85.279377	RIVER	GANGA	PATNA	28	6.2	7.48	238	2	0.3	24000	35000	1300	13000	242	118	12	20	0.4	130	30.4	13.1	41.5	164	296	252	0.2	0
03-09-2022	RIVER GANGA AT U/S MUNGER KASHATHARNI GHAT	25.382387	86.459558	RIVER	GANGA	MUNGER	30	6.1	7.2	195	2.1	0.3	2300	3300	330	780	356	130	17	20	0.4	116	21.6	15.1	29.3	132	352	362	0.2	0
03-09-2022	RIVER GANGA AT MUNGER D/S, CREAMINATION GHAT	25.3878	86.459352	RIVER	GANGA	MUNGER	29	6	7.3	190	2.5	0.3	13000	24000	700	7900	277.2	114	15	24	0.4	104	23.2	11.2	39.48	130	294	284	0.2	0
03-09-2022	RIVER GANGA AT U/S AJGABINATH MANDIR SULTANGANJ, BHAGALPUR	25.252575	86.725558	RIVER	GANGA	BHAGALPUR	30	6	7.2	200	2.1	0.3	240000	540000	1700	130000	303.6	116	16	20	0.4	110	22.4	13.1	29.42	136	322	316	0.2	0
03-09-2022	RIVER GANGA D/S CREMINATION GHAT AT SULTANGANJ, BHAGALPUR	25.257511	86.747053	RIVER	GANGA	BHAGALPUR	30	6	7.3	185	2.5	0.3	240000	350000	9200	130000	380.8	122	17	24	0.4	112	28.8	9.7	28.97	126	366	388	0.2	0
03-09-2022	RIVER GANGA AT D/S BHAGALPUR NEAR BARARIGHAT	25.271603	87.025665	RIVER	GANGA	BHAGALPUR	28	6.3	7.1	205	2.1	0.3	24000	35000	5400	13000	282.9	128	17	20	0.4	116	32.8	8.3	29.08	140	304	286	0.2	1
02-09-2022	RIVER GANGA AT BHAGALPUR, OPP. KUPPA GHAT	25.321869	86.999389	RIVER	GANGA	BHAGALPUR	30	6.1	7.1	199	2.5	0.3	24000	35000	330	7900	368.4	122	12	24	0.4	110	24.8	11.7	33.22	136	364	374	0.2	0
03-09-2022	RIVER GANGA AT CHAMPANAGAR, RASIDPUR, BHAGALPUR	25.268261	86.940085	RIVER	GANGA	BHAGALPUR	29	5.9	7	223	2.1	0.3	7000	11000	920	2200	62.4	146	16	20	0.4	130	36.8	9.2	20.13	152	156	68	0.33	0
03-09-2022	RIVER GANGA AT WATER INTAKE POINT, BHAGALPUR	25.2696622	87.0152573	RIVER	GANGA	BHAGALPUR	28	6.2	7.1	197	2.4	0.3	13000	35000	490	3400	237.6	126	17	24	0.4	112	27.2	10.7	31.21	134	268	244	0.2	0
19-09-2022	RIVER GANGA AT BAKHTIYARPUR-TAJPUR BRIDGE ON GANGA, ATHMALGOLA, PATNA	25.482778	85.627962	RIVER	GANGA	PATNA	26	7	7.82	197	1.2	0.3	35000	160000	220	17000	120.2	128	19	12	0.4	114	22.4	14.1	38.92	134	198	142	0.2	1

19-09-2022	RIVER GANGA AT MOKAMA (U/S), MAHADEO ASTHAN, PATNA	25.401104	85.923198	RIVER	GANGA	PATNA	26	7.2	7.89	195	1.7	0.3	24000	35000	490	13000	317.5	102	16	16	0.4	126	28.8	13.1	57.71	132	334	342	0.23	0
02-09-2022	RIVER GANGA, JHAJGHAT AT KAHALGAON	25.267334	87.227318	RIVER	GANGA	BHAGALPUR	30	5.6	7.1	201	2.9	0.3	2300	3300	170	780	593	124	16	28	0.4	110	24.8	11.7	35.46	136	512	584	0.2	0
02-09-2022	RIVER GANGA D/S NEAR CREMATION GHAT, KHALGOAN	25.273273	87.235165	RIVER	GANGA	BHAGALPUR	30	5.6	7.2	197	2.7	0.3	2300	3300	220	780	583.5	120	13	28	0.4	110	20.8	14.1	41.72	134	510	588	0.2	0
17-09-2022	RIVER GANGA AT MOKAMA (D/S), NEAR RAJENDRA BRIDGE , SIMIRIYA GHAT	25.381441	85.987169	RIVER	GANGA	PATNA	27	5.8	7.52	246	2.5	0.3	92000	160000	790	35000	358.2	142	15	24	0.4	126	27.2	14.1	29.3	168	358	328	0.2	0
09-09-2022	RIVER PUNPUN NEAR PATNA FATUHA ROAD BRIDGE, FATUHA	25.501911	85.102552	RIVER	PUNPUN	PATNA	29	5.2	7.07	249	2.9	0.3	92000	160000	NA	NA	148	152	15	28	1.39	156	32	18.5	36.02	170	226	152	0.2	1
29-09-2022	RIVER PARMAR AT JOGBANI, ARARIA	26.399461	87.242477	RIVER	PARMAR	ARARIA	29	6.1	7.88	172	1.8	0.3	24000	35000	NA	NA	1226	82	12	16	0.4	108	25.6	10.7	16.55	116	906	1140	0.2	0
22-09-2022	RIVER GANGA AT MAA AMBIKA ASTHAN, AAMI, SARAN	25.740235	84.963161	RIVER	GANGA	SARAN	31	6.7	7.62	180	2.5	0.3	7900	13000	490	3300	393.5	98	8	24	0.4	102	24.8	9.7	30.09	124	354	374	0.2	0
19-09-2022	RIVER GANGA AT BARAHIYA, NEPALITOLA, MARANCHI, HATHIDAH AT MOKAMA, PATNA	25.315313	86.029821	RIVER	GANGA	MUZAFFARPUR	25	7.3	7.33	201	2	0.3	92000	160000	3500	28000	361	102	20	20	0.4	124	61.7	45.2	50.78	136	378	384	0.2	0
17-09-2022	RIVER GANGA AT U/S MUNGER KASHATHARNI GHAT	25.382387	86.459558	RIVER	GANGA	MUNGER	29	7.5	7.27	228	1.2	0.3	13000	24000	330	4900	328.5	128	17	8	0.4	112	23.2	13.1	22.48	158	334	312	0.2	0
17-09-2022	RIVER GANGA AT MUNGER D/S, CREAMINATION GHAT	25.3878	86.459352	RIVER	GANGA	MUNGER	28	6	7.42	210	2	0.3	54000	92000	330	35000	284.2	124	14	20	0.4	108	24.8	11.2	24.61	146	312	292	0.2	0

17-09-2022	RIVER GANGA AT U/S AJGABINATH MANDIR SULTANGANJ, BHAGALPUR	25.252575	86.725558	RIVER	GANGA	BHAGALPUR	30	6.4	7.35	252	1.7	0.3	17000	28000	1300	11000	284.6	122	16	16	0.4	112	24	12.6	27.4	176	320	264	0.2	1
17-09-2022	RIVER GANGA D/S CREMINATION GHAT AT SULTANGANJ, BHAGALPUR	25.257511	86.747053	RIVER	GANGA	BHAGALPUR	30	6.2	7.19	208	2.1	0.3	240000	350000	220	79000	392.2	128	15	20	0.4	120	25.6	13.6	24.83	148	372	380	0.2	0

Annexure - 7

INSTALLATION OF DRIP, MINI AND MICRO SPRINKLER
From Feb 1, 2022-July, 18, 2022

क्रं.सं०.	जिला	Feb, 2022		March, 2022		April, 2022		May, 2022		June, 2022		18-Jul-22	
		कुल अधिष्ठापित (न.)	कुल अधिष्ठापित रकवा (एकड़ में)	कुल अधिष्ठापित (न.)	कुल अधिष्ठापित रकवा (एकड़ में)	कुल अधिष्ठापित (न.)	कुल अधिष्ठापित रकवा (एकड़ में)	कुल अधिष्ठापित (न.)	कुल अधिष्ठापित रकवा (एकड़ में)	कुल अधिष्ठापित (न.)	कुल अधिष्ठापित रकवा (एकड़ में)	कुल अधिष्ठापित (न.)	कुल अधिष्ठापित रकवा (एकड़ में)
1	अररिया	2	10	1	6	2	13	0	0	6	39	0	0
2	अरवल	3	8	3	19	1	6	1	1	0	0	0	0
3	औरंगाबाद	5	25	5	23	3	4	5	31	13	72	6	18
4	कटिहार	0	0	3	13	5	18	3	15	5	30	2	8
5	कैमूर	2	10	2	2	4	9	9	43	14	79	15	91
6	किशनगंज	21	74	32	94	35	123	16	75	19	85	4	33
7	खगड़िया	1	13	4	6	0	0	1	3	3	19	0	0
8	गया	8	21	2	13	3	15	7	45	9	69	15	88
9	गोपालगंज	4	9	13	41	6	14	5	23	5	15	1	1
10	जमुई	4	27	4	15	3	12	5	33	2	13	5	15
11	जहानाबाद	0	0	0	0	1	1	1	2	2	14	2	14
12	दरभंगा	2	2	5	27	0	0	2	8	3	12	3	30
13	नवादा	10	55	7	46	16	106	9	73	19	113	12	83
14	नालंदा	21	95	6	20	12	39	17	69	26	73	7	40
15	पटना	4	10	6	23	8	36	13	69	11	61	16	101
16	पूर्णिया	2	9	0	0	2	13	2	13	1	7	0	0
17	पूर्वी चंपारण	0	0	6	19	1	3	4	22	14	74	1	8
18	पश्चिम चंपारण	3	20	2	2	10	29	2	7	1	5	1	3
19	बक्सर	3	9	2	2	4	12	3	13	20	101	6	39
20	बेगूसराय	2	3	10	25	11	30	4	14	9	23	0	0
21	बाँका	2	2	5	8	0	0	1	7	3	3	9	59
22	भागलपुर	4	20	16	97	1	13	1	13	5	44	11	125
23	भोजपुर	1	1	8	8	3	7	6	24	6	38	2	13
24	मुंगेर	5	6	2	8	5	18	3	14	2	2	4	30
25	मुजफ्फरपुर	18	99	9	64	4	25	7	41	5	39	4	20
26	मधेपुरा	2	19	4	25	0	0	2	13	3	19	1	6
27	मधुबनी	9	17	6	11	2	7	8	31	10	49	1	1
28	रोहतास	14	96	7	35	3	38	14	99	11	75	13	72
29	लखीसराय	0	0	3	19	0	0	3	19	8	41	0	0
30	वैशाली	5	24	12	70	3	20	8	55	12	65	6	47
31	शेखपुरा	5	33	0	0	1	4	1	2	0	0	2	15
32	शिवहर	0	0	6	34	0	0	0	0	3	4	0	0
33	सुपौल	7	37	9	56	4	15	2	8	5	21	1	6
34	समस्तीपुर	7	27	12	66	15	70	9	43	21	101	7	35
35	सहरसा	0	0	2	13	2	19	0	0	5	31	0	0
36	सारण	3	3	4	7	2	2	3	3	8	29	4	10
37	सीतामढ़ी	2	4	4	12	0	0	4	12	1	7	1	7
38	सीवान	2	2	3	18	0	0	0	0	4	5	1	1
Total All Districts		183	789	225	948	172	717	181	942	294	1475	163	1019

Annexure - 8

503

Discharge Report of Ramrekha River From 01.12.2022 to 15.12.2022

Sl. No.	Date	Discharge of Ramnagar Entry Point **m3/sec**	Discharge of Ramnagar Exit Point **m3/sec**	Remarks
1	1.12.2022	0.77	1.19	
2	2.12.2022	0.74	1.13	
3	3.12.2022	0.76	1.19	
4	4.12.2022	0.78	1.24	
5	5.12.2022	0.74	1.13	
6	6.12.2022	0.70	1.04	
7	7.12.2022	0.75	1.16	
8	8.12.2022	0.73	1.24	
9	9.12.2022	0.78	1.28	
10	10.12.2022	0.81	1.35	
11	11.12.2022	0.75	1.21	
12	12.12.2022	0.74	1.17	
13	13.12.2022	0.72	1.13	
14	14.12.2022	0.69	1.07	
15	15.12.2022	0.71	1.13	

Abhishek 16/12/22 J.E.
Hydrology Subdivision
Motihari

Ajay Kumar 16/12/2022
A.E. Hydrology Sub divison Motihari

Ajay Kumar 16/12/22
E.E.
Hydrology division-1
Anishabad Patna

Discharge Report of Harbaura River From 01.12.2022 to 15.12.2022				
Sl. No.	Date	Discharge of Narkatiaganj Entry Point **m3/sec**	Discharge of Narkatiaganj Exit Point **m3/sec**	Remarks
1	1.12.2022	6.68	19.83	
2	2.12.2022	5.85	20.11	
3	3.12.2022	5.37	19.23	
4	4.12.2022	5.68	19.67	
5	5.12.2022	6.45	19.24	
6	6.12.2022	6.33	17.70	
7	7.12.2022	6.97	19.82	
8	8.12.2022	5.84	18.22	
9	9.12.2022	6.24	19.55	
10	10.12.2022	6.06	19.27	
11	11.12.2022	5.54	18.05	
12	12.12.2022	5.46	17.04	
13	13.12.2022	4.98	16.66	
14	14.12.2022	6.62	17.01	
13	15.12.2022	5.72	18.01	

16/12/22
J.E.
Hydrology Subdivision
Motihari

16/12/2022
A.E.
Hydrology Subdivision
Motihari

16/12/22
E.E.
Hydrology division-1
Anishabad Patna

(50)

Discharge Report of Sirsiya River From 01.12.2022 to 15.12.2022				
Sl. No.	Date	Discharge of Raxaul Entry Point **m3/sec**	Discharge of Raxaul Exit Point **m3/sec**	Remarks
1	1.12.2022	3.62	4.88	
2	2.12.2022	3.71	5.01	
3	3.12.2022	3.62	4.88	
4	4.12.2022	3.54	4.75	
5	5.12.2022	3.45	4.46	
6	6.12.2022	3.49	4.93	
7	7.12.2022	3.30	4.53	
8	8.12.2022	3.57	4.85	
9	9.12.2022	3.41	4.61	
10	10.12.2022	3.33	4.48	
11	11.12.2022	3.15	4.21	
12	12.12.2022	3.23	4.41	
13	13.12.2022	3.08	4.16	
14	14.12.2022	2.88	3.89	
13	15.12.2022	4.03	5.82	

16/12/22
J.E.

Hydrology Subdivision
Motihari

Vijay Kumar 16/12/2022
A.E.

Hydrology Subdivision
Motihari

16/12/22
E.E.

Hydrology division-1
Anishabad Patna

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Discharge report of Parman River at Jogbani Entry & Exit Point from period 01/12/2022 to 15/12/2022 (Under NGT)			
S.No.	DATE	Discharge of river at Jogbani Entry Point (m3/sec)	Discharge of river at Jogbani Exit Point (m3/sec)
1	1/12/2022	3.74	13.89
2	2/12/2022	3.43	13.00
3	3/12/2022	3.60	13.70
4	4/12/2022	3.91	14.65
5	5/12/2022	3.69	14.17
6	6/12/2022	3.60	13.70
7	7/12/2022	3.41	13.00
8	8/12/2022	3.60	13.51
9	9/12/2022	3.34	12.50
10	10/12/2022	3.11	11.95
11	11/12/2022	3.00	11.34
12	12/12/2022	2.86	10.93
13	13/12/2022	2.67	10.58
14	14/12/2022	2.60	10.00
15	15/12/2022	2.43	10.81

17.12.22
JE
Hydrology
Sub Division
Birpur/Purnia

17/12/22
SDO
Hydrology
Sub Division
Birpur/Purnia

26/12/22
EE
Hydrology
Division - 1 Anisabad
Patna

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Discharge Report of Punpun River at Gaurichak (Entry Point) and Fatuah (Exit Point) from 1.12.22 to 15.12.22

Sl.No.	Date	Discharge of Gaurichak Entry Point (m^3/sec)	Discharge of Fatuah Exit Point (m^3/sec)	Remarks
1	1.12.2022	7.769	21.900	
2	2.12.2022	7.434	21.276	
3	3.12.2022	7.106	20.727	
4	4.12.2022	7.027	20.083	
5	5.12.2022	6.988	19.549	
6	6.12.2022	6.949	18.923	
7	7.12.2022	7.234	18.405	
8	8.12.2022	7.154	18.087	
9	9.12.2022	6.909	17.582	
10	10.12.2022	6.870	17.489	
11	11.12.2022	6.831	17.085	
12	12.12.2022	6.791	16.994	
13	13.12.2022	6.553	16.506	
14	14.12.2022	6.514	16.416	
15	15.12.2022	6.476	16.024	

15/12/2022
J.E

S.D.O.
17/12/2022

17/12/2022
E.E.
Hydrology Division-2
Anisabad, Patna