पत्रांक–09 / न0वि0 NGT–04 / 2023 2132 8475 / न0वि0 एवं आ0वि0

Government of Bihar
Urban Development and Housing Department

From,

Chief Secretary,
Government of Bihar.

To,

Registrar General,
Principal Bench, NGT,
Faridkot House, Copernicus Marg, New Delhi- 110001.

Date: 12/12/23

Subject: **Submission of the compliance report under the Original Application No.673/2018.**

Reference: Directions of Hon'ble NGT under Execution Application No. 35/2023 in Original Application No.673/2018 (M.A. No. 92/2023), dated 09.10.2023.

Sir,

With reference to the subject above, as per the directions of Hon'ble NGT given in Order No.– 39, dated 22.02.2021 and Order No.– 36, dated 21.09.2020 under Execution Application No. 35/2023 in Original Application No.673/2018 (M.A. No. 92/2023), News item published in "The Hindu" authored by Shri Jacob Koshy titled "More river stretches are now critically polluted: CPCB, a compliance report is attached herewith for your kind consideration.

Enclosure: ibid

Yours Sincerely,

12.12.23

Chief Secretary,
Government of Bihar

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COMPLIANCE REPORT OF ORDER PASSED

BY

HON'BLE NGT

A. Parawise Compliance Report Of Order Dated 09.10.2023 in O.A. No. 673/2018 Passed By The Hon'ble NGT dated 22.02.2021

39 (i) Direction: *In the light of observations in Para 38 above, MoJS may devise an appropriate mechanism for more effective monitoring of steps for control of pollution and rejuvenation of all polluted river stretches in the country. The said mechanism may be called "National River Rejuvenation Mechanism" (NRRM) or given any other suitable name. NRRM may also consider the observations with regard to setting up of National/ State/ District Environment Data Grid at appropriate levels as an effective monitoring strategy.*

Compliance: Relates to MoJS, GoI.

39 (ii) Direction: *Chief Secretaries of all States/UTs and PCBs/PCCs must work in mission mode for strict compliance of timelines for commencing new projects,*

completing ongoing projects and adopting interim phyto/bio-remediation measures, failing which compensation in terms of earlier orders be deposited with the MoJS, to be utilised in the respective States as per action plan to be approved by the NRRM. Other steps in terms of action plans for abatement of pollution and rejuvenation of rivers, including preventing discharge or dumping of liquid and solid waste, maintaining eflow, protecting floodplains, using treated sewage for secondary purposes, developing biodiversity parks, protecting water bodies, regulating ground water extraction, water conservation, maintaining water quality etc. be taken effectively. The process of rejuvenation of rivers need not be confined to only 351 stretches but may be applicable to all small, medium and big polluted rivers, including those dried up.

Compliance: The state has taken various initiatives and implemented projects related to sewage management, including In-situ treatment (phyto/ bio-remediation measures) for preventing the discharge of untreated water in the river/water bodies etc. for abatement and control of water pollution, maintenance of e-flow etc. The details are as following-

Sewage Management Projects and Timelines:

A total 1100 MLD sewage generation has been estimated in the State of Bihar.

a) **Prevention of Domestic Wastewater Discharge:**

The total estimated sewage generation from the urban population (117,58,016 as per Census 2011) of Bihar is 1100 MLD. Planning has been done for the management of 1439.78 MLD sewage & 68 KLD faecal sludge. Till date 73 projects have been planned wherein 68 projects are of sewage

treatment plant (STP) and Interception & Diversion/ sewer network, and the remaining 5 projects are for laying sewer network.

Out of the 68 projects mentioned, 37 projects of STPs are sanctioned by NMCG and in other various schemes with capacity of 855.6 MLD while the remaining 31 projects of STPs with a capacity of 584.18 MLD are under DPR preparation or approval/ sanctioning phase.

Details are mentioned in the following table:

S. No.	City/ Town	STP capacity (MLD)	Network (Km)	House Connection (No.)	Physical Progress (%)	Utilization (MLD)	Expected Date of Completion
STPs SANCTIONED - 855.6 MLD by NMCG and other various schemes (from S. No. 1 to 42)							
STP and Sewerage schemes (Completed)							
1	Patna, Beur STP	43	-	-	100	24	Completed and under O&M
2	Patna, Karmalichak STP	37	-	-	100	17.54	
3	Patna, Saidpur STP	60	55	7000	100	38	
4	Patna, Pahari STP	60	-	-	100	15	
5	Pahari Sewerage Network Zone IV, Patna		92	5963	100		Completed and under O&M
6	Beur Sewerage Network, Patna		158	9000	100		
7	Saidpur Sewerage Network, Patna		117.4	7208	100		
STP and Sewerage schemes (Under Construction)							
8	Karmalichak Sewerage Network, Patna		96.5	34205	100	–	31.12.2023
9	Pahari Sewerage Network Zone V, Patna		103.95/ 104.03	17028/ 22855	99.93	–	Mar-24
10	Digha Sewerage Network and STP	100	303	61492	39.16	–	Dec-24

S. No.	City/ Town	STP capacity (MLD)	Network (Km)	House Connection (No.)	Physical Progress (%)	Utilization (MLD)	Expected Date of Completion
11	Kankarbagh Sewerage Network and STP	50	150	37616	34	–	
12	Munger Sewerage Network and STP	30	167.23	15200	86.96	–	Jan-24
13	Hajipur Sewerage Network and STP	22	138.9	25494	81.68	–	Mar-24
14	Begusarai Sewerage Network and STP	17	90.5	22000	88		Mar-24
Total		**419**	**1472.56**	**248033**		**94.54**	
I&D and STP Schemes (Completed)							
15	Barh I&D and STP	11	–	–	100	6.5	Completed and under O&M
16	Sonepur I&D and STP	3.5	–	–	100	1.4	
17	Sultanganj I&D and STP	10	–	–	100	4.41	
18	Naugachia I&D and STP	9	–	–	100	–	Completed and under trial run. O&M will start by Dec 2023
19	Mokama I&D and STP	8	–	–	100	–	
20	Chhapra I&D and STP	32	–	–	100	–	Completed and under trial run. O&M will start by Feb 2024.
Total		**73.5**				**12.31**	
I&D and STP Schemes (Under Construction)							
21	Bakhtiyarpur I&D and STP	10	–	–	95.5	–	Feb-24
22	Maner I&D and STP	6.5	–	–	95.06	–	Jan-24
23	Danapur I&D and STP	25	–	–	91.3	–	Dec-23
24	Fatuha I&D and STP	7	–	–	48.9	–	
25	Phulwarisharif I&D and STP	13	–	–	90	–	
26	Bhagalpur I&D and STP	45	–	–	58	–	Jun-24
27	Kahalgaon I&D and STP	6	–	–	–	–	Work just started

S. No.	City/ Town	STP capacity (MLD)	Network (Km)	House Connection (No.)	Physical Progress (%)	Utilization (MLD)	Expected Date of Completion
28	Dehri on Sone I&D and STP	21	–	–	–	–	Work just started
Total		**133.5**					
STPs under other schemes							
29	Rajgir STP & Sewerage Network	10	–	–	100	10	Completed
30	Bodhgaya STP & Sewerage Network	10	–	–	Ongoing	–	To be completed by Dec 2023
31	Madhubani Storm water Drainage & STP	15	–	–	Ongoing	–	To be completed by Mar 2024
32	Biharsharif STP &	25	–	–	Ongoing	–	
33	Muzzafarpur STP	53	–	–	Ongoing	–	
Total		**113**					
I&D and STP Schemes (Under tender stage)							
34	Barahiya I&D and STP	6	–	–	–	–	Financial bid submitted to NMCG for approval
35	Supaul I&D and STP	12.1	–	–	–	–	
36	Motihari I&D and STP	23	–	–	–	–	Financial bid NOC received on 7/11/23
37	Lakhisarai I&D and STP	22	–	–	–	–	Financial bid evaluation under process
38	Daudnagar I&D and STP	10.5	–	–	–	–	Financial bid NOC received on 2/11/23
39	Jamui I&D and STP	13	–	–	–	–	Technical bid sent to NMCG for approval
40	Ramnagar I&D and STP	9	–	–	–	–	NMCG cancel the bid on 31/10/23

S. No.	City/ Town	STP capacity (MLD)	Network (Km)	House Connection (No.)	Physical Progress (%)	Utilization (MLD)	Expected Date of Completion
41	Narkatiyaganj I&D and STP	9	–	–	–	–	NIT for retender has been published
Total		**104.6**					
42	Raxaul I&D and STP	12	–	–	–	–	Approved in EC meeting, AA not received.
GAP IN SANCTIONING SCHEMES – 584.18 MLD & 68 KLD							
DPR submitted for approval (329.68 MLD)							
43	Arwal I&D and STP	3.5	–	–	–	–	DPR under Third Party Appraisal by NMCG.
44	Saharsha I&D and STP	18.69	–	–	–	–	
45	Kishanganj I&D and STP	20.71	–	–	–	–	
46	Madhepura I&D and STP	10.73	–	–	–	–	
47	Arrah I&D and STP	47	–	–	–	–	
48	Darbhanga I&D and STP	24.3	–	–	–	–	DPR submitted in NMCG
49	Bagaha I&D and STP	11	–	–	–	–	
50	Gopalganj I&D and STP	11	–	–	–	–	
51	Samastipur I&D and STP	6	–	–	–	–	
52	Bettiah I&D and STP	33	–	–	–	–	
53	Katihar I&D and STP	55.5	–	–	–	–	
54	Jogbani I&D and STP	4.25	–	–	–	–	
55	Gaya I&D and STP	84	–	–	–	–	Under Amrut scheme
DPR of FSTPs (68 KLD) submitted for approval							
56	Manihari FSTP	–	–	–	–	–	Under Third Party Assessment at NMCG
57	Dighwara FSTP	–	–	–	–	–	
58	Teghra FSTP	–	–	–	–	–	

S. No.	City/ Town	STP capacity (MLD)	Network (Km)	House Connection (No.)	Physical Progress (%)	Utilization (MLD)	Expected Date of Completion
DPR under preparation (Total Expected 234 MLD)							
59	Aurangabad I&D and STP	17	–	–	–	–	Under Amrut scheme
60	Jehanabad I&D and STP	17	–	–	–	–	–
61	Sitamarhi I&D and STP	11	–	–	–	–	–
62	Barauni I&D and STP	12	–	–	–	–	–
63	Bihat I&D and STP	11	–	–	–	–	–
64	Siwan I&D and STP	23	–	–	–	–	–
65	Nawada I&D and STP	16	–	–	–	–	–
66	Araria I&D and STP	13	–	–	–	–	–
67	Benipur I&D and STP	13	–	–	–	–	–
68	Sheikhpura I&D and STP	11	–	–	–	–	–
69	Jamalpur I&D and STP	18	–	–	–	–	–
70	Purnia I&D and STP	47	–	–	–	–	–
71	Sasaram I&D and STP	25	–	–	–	–	Under Amrut scheme
STPs under revised sanction (20.5 MLD)							
72	Buxar	16	–	–	–	–	–
73	Khagaria	4.5	–	–	–	–	–

b) Interim Measures: To avoid untreated sewage being discharged directly into Ganga & its tributaries, interim remedial measures i.e. In-situ treatment (phyto/ bioremediation) in 200 drains are being done.

Details are mentioned in the following table:

S. No.	Catchment Area (Towns)	Name of Drain
1	Arah	Sant Hospital bypass Road drain
2	Bodhgaya	Pachhati Bridge Drain, Bodh Gaya
3	Serghati	KhaterMoree Drain, Serghati, Gaya
4	Arwal	Malhi Patti Drain
5		Burhwa Mahadev Drain
6		Baidrabad English Drain
7		Dr. Hiralal Galli Drain
8	Jehanabad	Algna Drain, Jehanabad
9		Daulatpur Drain, Jehanabad
10		Raja Bazar Drain, Jehanabad
11	Lakhisarai	MahaveerAsthan, Purani Bazar drain
12		BadhiDargah drain
13	Jhajha	Ganeshi Mandir Drain
14		Charghara Drain
15	Nabinagar	Sangam Studio Drain, Nabinagar
16	Bhabhua	Akhlashpur Drain Bhabhua Nagar Parisad, Bhabhua
17		Asthbhuji Chowk Drain, Bhabhua
18		Purva Pokhra Drain, Bhabhua
19		Drain Near Hanuman Mandir at Suara River, Bhabhua
20	Bikramganj	Bikramganj kashighat drain, Bikramganj
21		Bikramganj thana chowk drain, Bikramganj
22	Nasriganj	Nasriganj urdu vidyalaya Drain
23	Amarpur	Ajiyar Drain, Amarpur
24	Bikram	Ashpura Drain
25	Islampur	Drain of Maharanapratap Nagar, Islampur
26	Banka	Gandhi Chowk Drain, Naya Tola, Banka
27		Vijay Nagar Drain — 1, Banka

S. No.	Catchment Area (Towns)	Name of Drain
28		Vijay Nagar Drain —2, Banka
29	Jamui	Polytechnic college drain
30	Nokha	NokhaDafartola drain
31	Patna	Mandiri (Bans Ghat Nalla)
32		Krishna Ghat Nalla
33		Barharwa Ghat Nalla
34		Rani Ghat Nalla
35		Ghagha Ghat Nalla
36		Masjid Ghat Nalla
37		Loharwa Ghat Nalla
38		Gosai Ghat Nalla
39		Nauzar Ghat Nalla
40		Mittan Ghat Nalla
41		Gay Ghat Nalla
42		Balu Ghat Nalla
43		Anta Ghat Nalla
44		Badsahi Nalla
45		Kurzi Drain
46	Phulwarisariff	Issopurrai Chowk Nalla
47		Birla Colony Nalla A
48		Birla Colony Nalla B
49	Maner	Maner Bazar Nalla
50		Ram Nagina Singh College Nalla
51		Ram Ghat Nalla
52	Barh	Dhobiya Ghat, Laxmi Flour Mill
53		Gaurishankar Ghat
54		Talimpur Nalla
55	Mokama	Chaudhry Ghat, Pipaltal
56	Sultanganj	Vishari Asthan Ghat Nalla (1st)
57		Krishngarh Bhattagali Nalla

S. No.	Catchment Area (Towns)	Name of Drain
58		New Sidhi Ghat Nalla
59	Bhagalpur	Koyal Ghat
60		Hathiya Nalla, Near Tilkamanjhi
61		S.T.P Nalla Bhagalpur
62		Champanalla -1
63		Champa Nalla -2
64		Surkhikal Drain
65		Saklichand Drain
66		Barari Ghat Nala, Near Vikramshila bridge
67		DN Singh Drain
68	Buxar	Tadka Nalla
69		Sati Ghat
70		Bangla Ghat Nalla
71		Nath Baba Drain
72		Sidhnath Drain
73		Saripur Drain
74	Barahiya	Krishn Chawk Nalla
75		Baba Danimohalla Nalla
76		Bangalkunj Taal Nalla
77		Bah Path Nalla
78	Kahalgaon	Korwa Nala
79		Kaggi Nala
80	Fatuha	Maksudpur Nalla (East)
81		Maksudpur Nalla (West)
82		Kataiya Ghat
83		Mastana Ghat
84		Bankipur Ghorkak Nalla
85	Munger	Lal Darwaja Drain
86	Darbhanga	Balu Ghat Drain,
87		Gayatri Mandir Ghat Drain,

S. No.	Catchment Area (Towns)	Name of Drain
88	Areraj	Balmiki Asthan Drain, Areraj, Motihari
89		Markanday Chock Drain, Areraj, Motihari
90	Dalsingh Sarai	BadiGudri Drain, Dalsingh Sarai, Samastipur
91		BadiThakurwari Drain, Dalsingh Sarai, Samastipur
92		Dhobi Ghat Drain, Dalsingh Sarai, Samastipur
93	Dumra	Main Drain, Dumra,Near Treasury Bridge
94	Kesariya	Chakiya Keshariya Road Bridge Drain, Keshariya
95	Mairwa	Infront of MahavirSewaSansthanDrain,Mairwa
96	Dhaka, West Champaran	Chainpur Dhaka Drain, Dhaka
97	Gopalganj	Sri Ram Nagar Drain
98	Kishanganj	TegariaMadhav Nagar Meat Market drain, Kishanganj
99		Pilkhana Road drain, Kishanganj
100		Khankha drain, Kishanganj
101		DharamganjMajhia drain, Kishanganj
102	Motihari	Cold Storage Drain
103		Madhuban chowk drain
104		Chatwani Colony Drain, Near DDC Res.
105		Sugar Mill Drain
106	Samastipur	Kabristan Drain, Near Bus stand, Dumra Road, Sitamarhi
107		Jamuari River Pool (Mohanpur) Drain
108		BhramasthanGali drain, Rajopatti, Sitamarhi
109		ChakMaila Drain, Rajopatti

S. No.	Catchment Area (Towns)	Name of Drain
110	Siwan	Near Shiv Mandir Drain, Siwan
111		ShivwaratSahMandir Drain, Siwan
112		Navalpur Drain, Siwan
113		KhurmabadTakiya Drain, Siwan
114	Simri Bakhtiyarpur	Ranihat , CHowdhery tola basti, near 107 NH (Simri Bakhtiyar, Saharsha)
115	Benipur	Primary school aashapur drain
116	Mahua	FCI Godown Drain, Mahua
117	Mehsi	Data Mirja Halim Shah Mazar Drain, Mehshi
118	Belsand	Mestartola drain, Belsand
119		Babar kigali drain, Belsand .-
120		Main road to Chandeshwarsingh residence drain, Belsand
121	Munger	Lal Dawraja Drain
122	Narkatiaganj	Near Power grid of sugar mill
123		Dhoom Nagar Mandir drain
124	Raxaul	Drain at Chhatriya ghat
125		Drain at Custom check post bridge
126		Drain At Naga Road
127		Dayachak Nala
128	Jogbani	Haji Mohalla Drain
129		Khajur Bari Drain
130		Islampur Drain ,--
131		Idgah Chawk
132	Jamalpur	Ramnagar Nalla
133		Laxmipur Nalla
134		Aashikpur Nalla
135		Faridapur Nalla
136	Hajipur	Subhash Chowk Nalla

S. No.	Catchment Area (Towns)	Name of Drain
137	Kahagariya	P.W High School Nalla
138	Navgachhiya	New Basti Nalla
139		Maa Tara Bhawan Nalla
140		Ward No.-08 Nalla
141		Station Road Nalla (1)
142		Station Road Nalla (2)
143		Durgaasthan Nalla
144		Ward No.-03 Nalla
145		Milan Chawk Nalla
146		Ward No.-09 Nalla
147		Noniyapatti, Ward No.-20 Nalla
148		Musharpatti, Ward No.-13 Nalla
149		Rajendra Colony, Ward No.-05 Nalla
150		Nagar Panchyat Karyalaya Ke Bagal Me Ward No.-16
151		Hardiyapatti, Ward No.-21 Nalla
152	Dighwara	Bagahing Tola
153		Marchav Baba Mandir
154		Umv Nalla
155		Post Office Road
156		Market Area
157		R. Primary School
158		Barbana
159		M.S Basadpur
160	Teghra	Teghra Chowk
161		Mukhtar Maidan Drain
162	Manihari	Pirpatra Nalla
163		Primari Health School Nalla
164	Ram Nagar (Hari Nagar)	Mukhya Bazar Near Fish Market
165		Chatiya Ghat Drain (West)

S. No.	Catchment Area (Towns)	Name of Drain
166		Chatiya Ghat Drain (East)
167		Mill Quarter Drain
168	Arwal	Janakpur Ghat Drain
169		Sahi Mohalla Drain
170		Karbala Maidan Drain
171		Kagzi Mohalla Drain
172		Muradpur Chowki Drain
173		Brahmsthani Drain
174	Muzaffarpur	Soda Godown Sluice Gate Chowk Drain
175	Dehri Dalmiyanagar, Rohtas	Canal Road Drain
176		Main Bazar Drain
177	Gopalgan	Haziapur Pool Drain
178		Haziapur Block Drain
179		Dargah Road Drain
180	Jamui	Babu Tola drain
181		Yadav Basti Mohala drain
182	Motihari	Rowing Club Drain
183		Refuse Colony Drain
184	Samastipur	MagardahiGhat Drain, Main Market, Samastipur
185	DalsinghSarai, Samastipur	Lahariya Bazar, Mahadev Asthan, Dalsingh Sarai
186	Arah	Sapna Cinema drain
187		Bind Toli-Ujiyar Tola drain
188		Awarpool drain
189	Darbhanga	QuilaGhat Drain,
190		Allapatti Drain
191	Gaya	Nadraganj Drain, Gaya
192		BrahmniGhat Drain, Gaya
193		KiraniGhat Drain, Gaya

S. No.	Catchment Area (Towns)	Name of Drain
194	Bodhgaya	Raja Pool Drain, Bodh Gaya
195		Godam Road Drain, Bodh Gaya
196	Aurangabad	Dani Bigha Drain Ward no. 3
197		Nawadih Drain
198		Barat Pool Tiwari Ghat Drain
199	Dumraon, Buxar	Central Drain
200		Kewra Bagh Drain

Water quality test report of NIT, Patna for the inlet and outlet of drains are attached in **Annexure I.**

Swachh Bharat Mission (Gramin)/ Lohia Swachh Bihar Abhiyan (LSBA) – Phase II is implementing Solid and Liquid Waste Management (SLWM) in rural areas while sustaining the status of Open Defecation Free (ODF). Faecal Sludge Management (FSM) is one of the key components of the Swachh Bharat Mission (Gramin)/ Lohiya Swachh Bihar Abhiyan – Phase II and is crucial for providing sanitation in rural areas. The safe disposal of faecal sludge is necessary for public health and the environment.

Till date, two Faecal Sludge Treatment Plants (FSTP) with a capacity of 3 KLD each have been constructed at Gaya and Purnia in collaboration with UNICEF. For treatment of the faecal sludge, the options for co-treatment with sewage in nearby existing Sewage Treatment plants (STPs) are being prioritized in peri urban areas. As on date, 169 villages have been tagged with existing 6 STPs for the co-treatment of rural faecal sludge in Bihar.

STPs Mapped for Co-treatment

S.No	District	Districts covered with FSM arrangements (Existing STPS)	Total no. of GPs having linkage with STPs
1	Patna	6	169

For FY 23-24, SBM (G)/ LSBA has targeted to construct 10 Faecal Sludge Treatment Plants (FSTP) for rural areas and currently identification of land for these FSTP and preparation of Detailed Project Report are in progress. The treated sludge from these FSTPs would be then converted into compost by co-composting and the treated water can be used for gardening and agricultural purposes.

New FSTPs to be constructed for FSM linkage

S.No	District	Districts to be covered with FSM arrangements
1	Banka	1
2	Buxar	1
3	Bhojpur	1
4	Begusarai	1
5	Darbhanga	1
6	Madhubani	1
7	East Champaran	1
8	Patna	1
9	Samastipur	1
10	Siwan	1

As per the survey undertaken in the districts, 645 private desludging operators have been identified. These Desludging operators will be regulated for successful implementation of Faecal sludge Management in Rural Bihar

c) **Maintaining e-flow:** As per directions given in the 4th R.R.C meeting dated 03.10.2019 the discharge data at entry and exit point of the of the five polluted river stretches (Sirsiya, Parman, Harbaura, Ramrekha and Punpun) upto is being made available to BSPCB fortnightly.

Ministry of Jal Shakti, GoI through its gazette notification no. 4009 dated 09.10.2018 has defined the quantum of e-flow in the main stem of river Ganga from Haridwar (Uttarakhand) to Kanpur (Uttar Pradesh) only. However, it was desirable to notify the quantum of e-flow for the entire reach of Ganga as well as its important tributaries.

It is well known that there exists an Indo-Bangladesh Treaty, 1996 in which sharing formula of water available at Farraka Barrage has been agreed. Sharing of Ganga water between India and Bangladesh, especially during the lean season, is of utmost importance as it is impacting Bihar's development as well. In this regard, MoJS, GoI has been requested to fix the quantum of water at important terminal points of the entire stretch of river Ganga vide dept letter no. 208 dated 24.04.2019. Further information on the matter is still awaited.

d) **Protecting Flood Plains:** As per request made by NMCG, a scientific study for establishing the non-feasibility of Flood plain zoning in the state of Bihar has been provided to NMCG vide WRD letter no. 296 dated 02.08.2021.

A committee comprising members from CWC, NMCG and CPCB was constituted to look into the matter of Flood Plain Zoning in Bihar. The first meeting of the Committee was held on 23.11.2021 wherein the Chairman of the Committee requested all participants to firm up their views so that more deliberation could be taken up.

Bihar Government presented its views in the Second meeting held on 15.12 .2021. As directed by the Committee, the list comprising important Historical, Educational and Administrative buildings along River Ganga from Buxar to Kahalgaon in Bihar which come within the regulation zone has been made available to NMCG vide WRD letter no. 29 dated 21.01.2022.

The 3rd meeting of the mentioned committee was held on 24.01.2022 in which WRD presented that since high resolution Digital Elevation Model is not available, GoB is presently not in a position to assess the extent of inundation corresponding to different flood frequency. However estimated water level at different measuring stations located on river Ganga for different return period of 3, 7, 10, 20 and 50 years have also been made available to MoJS, GoI.

MoJS, GoI has also been requested vide WRD letter no. 156 dated 15.03.2022 to redefine the flood plain and regulatory zones in respect of prevailing geographical, Hydrological and social conditions of the state of Bihar as it have been done in case of river Kirshna and Yamuna. In this context, MoJS, GoI vide D.O letter No. 5/03/2016-FM dated 24.05.2022, again requested for implementing Flood Plain Zoning in Bihar to which reply was sent vide WRD letter no. 392 dated 01.07.2022 starting the requirement for modification of flood plain definition and regulatory zones due to the unique situation of Bihar state.

e) **Using Treated Sewage for Secondary Purposes:** Projects have been designed for the use of treated sewage water and the details are as follows-

S.No	STP Name	Capacity (MLD)	Consultant Name	Remarks
1.	Beur STP	43	M/s Green Design & Engineering Services Pvt. Ltd.	Technical approval has been given on the revised DPR submitted by M/s Green Design & Engineering Services Pvt. Ltd and under process of AA at UD&HD, Bihar
2.	Saidpur STP	60	M/s Green Design & Engineering Services Pvt. Ltd.	The final DPR submitted by M/s Green Design & Engineering Services Pvt. Ltd is under review by technical team of BUIDCo.
3.	Karmalichak STP	37	M/s BLG Construction Services Pvt. Ltd.	Technical approval has been given on the DPR submitted by M/s BLG Construction Services Pvt. Ltd and under the process of AA.

S.No	STP Name	Capacity (MLD)	Consultant Name	Remarks
4.	Pahari STP	60	M/s BLG Construction Services Pvt. Ltd.	M/s BLG Construction Services Pvt. Ltd has submitted the DPR and being verified by concerned Executive Engineer and is in process of technical approval at BUIDCo.
5.	Barh STP	11	M/s Blue stream Infrastructure Development Consultant Pvt. Ltd.	MoU has been signed with NTPC Barh. M/s Bluestream Infrastructure Development Consultant Pvt. Ltd has submitted the final DPR which has been sent to NTPC for approval of estimated cost.
6.	Mokama STP	8	M/s Shyam Designers and Consultant Pvt. Ltd.	Consultant M/s Shyam Designer and Consultant Pvt Ltd has submitted the draft DPR which is sent to concerned Executive Engineer for review.
7.	Sultanganj STP	10	M/s Shyam Designers and Consultant Pvt. Ltd.	M/s Shyam Designers and Consultant Pvt. Ltd. has submitted the final DPR which is under consideration for sanction.
8.	Naugachiya STP	9	M/s Samarth Infra-Tech Services Pvt. Ltd.	M/s Samarth Infra-Tech Services Pvt. Ltd. has submitted the final DPR and technical approval has been obtained. The DPR is under consideration for sanction.
9.	Sonepur STP	3.5	M/s Samarth Infra-Tech Services Pvt. Ltd.	M/s Samarth Infra-Tech Services Pvt. Ltd. has submitted the final DPR which is under consideration for sanction.

S.No	STP Name	Capacity (MLD)	Consultant Name	Remarks
10.	Bodh Gaya STP	10	M/s Shyam Designers and Consultant Pvt. Ltd.	Final DPR of reuse of treated sewage water from Bodh Gaya STP being prepared by Consultant M/s Shyam Designers and Consultant Pvt. Ltd is under review by technical team of BUIDCo.
11.	Bakhtiyar pur STP	10	M/s Blue stream Infrastructure Development Consultant Pvt. Ltd.	Inception report on re-use of treated sewage water from Bakhtiyarpur STP has been sent to NTPC Barh for their observations. BUIDCo is facilitating with NTPC Barh for reuse of treated wastewater from Bakhtiyar STP as it is also in periphery of 50Km radius.
12.	Bhagalpur STP	45	M/s Shyam Designers and Consultant Pvt. Ltd.	MoU has been signed with NTPC Kahalgaon. Incepation Report & Feasibility report on reuse of treated wastewater from Bhagalpur STP has been submitted by DPR Consultant which has been sent to NTPC Khalgaon for their observations.

f) **Developing Biodiversity Parks:** Bio-diversity Parks are being developed at the following places.

S.No.	Name of Forest Division	Location
1.	Jamui	01 (Madhopur)
2.	Banka	01 (Mandar)
3.	Araria	01 (Kushiyar Village)
4.	Gaya	01 (Piparghati)
5.	Aurangabad	01

A plan is being prepared by the Divisional Forest Officer for setting up a Biodiversity Park on the banks of river Falgu under Gaya Forest Division.

g) **Protecting Water Bodies:**

A total of seven components are being implemented for water conservation and protecting water bodies under the Jal-Jeevan-Hariyali Abhiyan in Bihar. The updated progress of the last four years are as follows:-

Component No.	Details	Updated progress
1	Number of public water harvesting structures freed from encroachment.	18584
	Number of public wells freed from encroachment	11202
2	Restoration of public ponds/pokars/ ahars/pynes.	19284

Component No.	Details	Updated progress
	Restoration of public ponds/pokhars/aahar/ pynes.	60478
3	Restoration of public wells.	33821
4	Construction of soak pits near of public hand pumps.	135366
	Construction of soak pits near of public wells	23515
5	Number of check dams, other water harvesting structures and water storage in the hilly areas completed.	11053
6	Creation of new water resources completed.	49407
7	Construction of Rain Water Harvesting Structure completed in Government buildings.	13527

h) **Solid Waste Management:** Urban Development and Housing Department (UD&HD), GoB has proposed an Integrated Solid Waste Management Strategy at the cluster level in PPP mode. A total of 20 clusters (Patna cluster and 19 others cluster) covering more than 161 ULBs have been prepared. The ULBs incorporated in clusters are divided into two categories: Lead ULB and participating ULB. As per the proposed strategy, processing and disposal will be the responsibility of the selected developer. The processing will include Material Recovery Facility (MRF) & Refuse Derived Fuel (RDF) from dry waste and Bio Methanation Plant and compost Pit from Wet waste and Scientific Landfill Facilities are proposed on a cluster basis. A 15 MW Waste

to Energy plant is proposed for the Patna Cluster. The proposal is approved by the Empowered Committee of Infrastructure Development Authority, GoB and is shared with Department of Economic Affairs (DEA) Ministry of Finance, Govt of India for their input and suggestions.

39 (iii) Direction: *The Chief Secretaries of all States/UTs may personally monitor progress at least once every month and the NRRM every quarter.*

Compliance: Regular meetings of River Rejuvenation Committee (RRC) under the chairmanship of the Secretary, Department of Environment, Forest & Climate Change, Govt. of Bihar are happening to monitor this.

The RRC meetings were convened on 07.01.2019, 17.07.2019, 03.10.2019, 31.12.2019; 01.12.2021, 20.09.2022; and 01.03.2023.

39 (iv) Direction: *Directions of this Tribunal in earlier order, the last being dated 21.9.2020 are reiterated.*

Compliance: Noted

39 (v) Direction: *The NRRM and the Chief Secretaries of all the States/UTs may take into account the observations in Paras 24 to 38 above.*

Compliance: Noted.

39 (vi) Direction: *In view of discussion in para 38 above, it is made clear that accountability for failure to comply with the direction for payment of compensation will be of the concerned Chief Secretaries under Sections 25, 26, 28 and 30 of the NGT Act, 2010. The MoJS or any other aggrieved person will be free to take remedies by way of initiating prosecution or execution.*

Compliance: Noted.

B. Parawise Compliance Report Of Directions Passed By The Hon'ble NGT dated 21.09.2020

36 (i) Direction: *All the States/UTs may address gaps in generation and treatment of sewage/ effluents by ensuring setting up of requisite number of functional ETPs, CETPs and STPs, as directed by the Hon'ble Supreme Court in (2017) 5 SCC 326.*

Compliance: Bihar State Pollution Control Board has identified a total of 78 Grossly Polluting Industries (GPIs). All GPIs have installed ETP for treatment and disposal of their effluent. Major industrial sectors viz. distillery, pulp and paper (waste paper recycling units), slaughter houses, oil refinery have adopted Zero Liquid Discharge (ZLD) system by having suitable treatment and recycling of treated effluent. Sugar mills have been directed for treating and utilization of treated effluent for irrigation purposes.

Central Pollution Control Board has identified technical institutes (National Sugar Institute (NSI), Kanpur and NIT, Patna) as Thirty Party Agency for the inspection of GPIs located in different districts of Bihar for verification & functioning of their ETPs. Proper directions are issued to GPIs based on inspection report submitted by the Thirty Party Agency to ensure the proper functioning of ETPs established by the industry. Board has issued a total of 22 Proposed Direction for Closure to the concerned defaulting GPIs units for not ensuring environmental norms during 2023-24. Board shall issue appropriate direction for closure in case of non-compliance of the direction.

For prevention of domestic wastewater discharge, please refer to the compliance report of the direction 39 (ii) (a) mentioned above.

36 (ii) Direction: *The timeline for commissioning of all STPs fixed by the Hon'ble Supreme Court, i.e., 31.03.2018, has long passed. The Hon'ble Supreme Court directed that the State PCBs must initiate prosecution of the erring Secretaries to the Governments, which has also not happened. This Tribunal was directed to monitor compliance and in the course thereof, we direct that compensation may be recovered in the manner already directed in earlier orders (See, Paras 5 and 6 herein), which may be deposited with the CPCB for restoration of the environment.*

Compliance: The State not being in position to meet the timeline for completion of STPs, had moved the Hon'ble NGT filing I.A. No. 290/2020 in O.A. No. 200/2014 seeking extension of time. The prayer was rejected by the order dated-16.09.2020, on the ground that the timelines have been laid down by the Hon'ble Supreme Court of India and that three months extension due to COVID has been given. State further appealed before the Hon'ble Supreme Court of India to set aside the said order of the Hon'ble NGT dated-16.09.2020 in O.A. No. 200/2014. The Hon'ble Supreme Court of India on 24.02.2021 has ordered that 'No coercive steps shall be taken in the meantime'.

Pursuant to this, State of Bihar has filed Civil Appeal no. 534 of 2021 for the extension of period which was fixed till 31.03.2018, subsequently, an Interim Relief was granted in the form of "No Coercive Action" by the Apex Court vide it's order dated 24.02.2021. The O.A 673 of 2018 is connected matter with Civil Appeal no. 534 of 2021, Hence the State of Bihar is preparing to file an Interlocutory

Application (I.A) for updating the fact of "No Coercive Action" at the record of NGT in the matter of O.A 673 of 2018 which is pending before National Green Tribunal, Principal Bench, New Delhi for avoiding to receive further Punitive Orders from respective Court/ Tribunal.

36 (iii) Direction: *The unutilized capacity of the existing STPs may be utilized expeditiously.*

Compliance: Total 10 STPs has been completed out of which 07 STPs are operational and 03 STPs are under trial run and will be functional soon. The utilization capacity of the functional STPs is less because sewer network work has not been completed and it is receiving sewage from the current population only.

36 (iv) Direction: *The States/ UTs may ensure that the CETP, ETPs and STPs meet the laid down norms and remedial action be taken wherever norms are not met.*

Compliance: State is ensuring the treatment and disposal of industrial wastewater through ETPs installed in the industrial premises. Domestic wastewater/sewage is also treated in compliant with discharge standards. Each STP has environment Lab where treated wastewater is tested on daily basis and the report is displayed at site. Additionally treated wastewater is getting tested in monthly basis from NABL accredited lab.

Test reports from the NIT/ NABL Accredited lab are attached in **Annexure II**.

36 (v) Direction: *It must be ensured that no untreated sewage/effluent is discharged into any water body. Prompt remedial action may be taken by the State PCBs/PCCs against non-compliant ETPs/CETPs by closing down or restricting the effluents generating activity, recovering compensation and taking other coercive measures following due process of law.*

Compliance: To avoid untreated sewage being discharged directly into Ganga & its tributaries, interim remedial measures i.e. In-situ treatment (phyto/ bioremediation) in 200 drains are being done. Please refer to the compliance report of the direction 39 (ii) (b) for details, as mentioned above.

36 (vi) Direction: *Directions outlined in Paras 24-26 herein may be implemented by the States/ UTs, and their compliance monitored by the Chief Secretaries at the State level, and the CMC at the National level.*

36 (vii) Direction: *Wherever action plans have not yet been finalized in respect of polluted river stretches or polluted coastal stretches, the same may be completed within one month from today. The execution of action plans may be overseen in the manner already directed in OA 673/2018 by River Rejuvenation Committees (RCCs). In the coastal areas, the said Committees may be known as 'River/Coastal Rejuvenation Committees'. The action plans must have provision for budgetary support in the manner laid down by the Hon'ble Supreme Court or otherwise which aspect may also be monitored by the CMC.*

36 (viii) Direction: *Directions outlined in Para 29 herein may be implemented by the concerned coastal States/ UTs, and their compliance monitored by the Chief*

Secretaries at the State level, and the CMC at the National level. OA No. 829/2019 stands disposed of and further monitoring of the issue will henceforth be in OA 593/2017 and OA 673/2018.

***36 (ix) Direction:** Directions outlined in Para 34 and 35 herein may be implemented by the States/ UTs, and their compliance monitored by the Chief Secretaries at the State level, and the CMC at the National level. OA No. 148/2016 stands disposed of and further monitoring of the issue will henceforth be in OA 593/2017 and OA 673/2018.*

Compliance: The combined report of compliance of directions 36 (vi) to (ix) is as follows-

Earlier, 6 rivers of the state were identified as polluted rivers. On the basis of data of 2019 and 2021, the Central Pollution Control Board, Delhi further identified a total of 18 rivers of the State as polluted rivers. It includes 06 rivers stretches where BOD was found above 03 mg/L only in one observation. Accordingly, the BSPCB has requested CPCB to exclude the 06 rivers from the list of identified polluted river stretches. Srisia river, which originates from Nepal, enters at Raxaul, East Champaran. Earlier, this river was identified under Priority-III before 2019. This river was identified as Priority- II based on the quality of the river, BOD: 30 mg/L in 2019. The water quality of this river during 2022 & 2023 with respect to BOD was observed maximum 16 mg/L. Consequently, presently this river has been observed under Priority- III. On the basis of the data of 2022 and 2023, only 12 rivers have been observed under polluted river.

Central Pollution Control Board, Delhi and Ministry of Environment, Forest and Climate Change, GOI have defined/set the Primary Water Quality Criteria for bathing (pH: 6.5 to 8.5, DO: 05 mg/L, Min., BOD: 03 mg/L, Max, TC: 500 MPN/100ml, Max & FC: 500 MPN/100 ml, (Desirable), 2500 MPN/100ml, max (permissible). Bihar State Pollution Control Board is assessing the water quality of river w.r.t. aforesaid parameters and included in the related report. The quality of river w.r.t. bathing is declared based on the aforesaid parameters. The related report is uploaded on the Board's website under head Environmental Monitoring Data.

In compliance with the order of the Hon'ble NGT dated-20.09.2018 in O.A. No. 673/2018, action plan for the rejuvenation and conservation of polluted river stretches was formulated by the constituted River Rejuvenation Committee (RRC). The discharge of untreated domestic wastewater/sewage is the main sources of pollution of rivers. Initiatives have been taken for the development of STP and Sewerage Network for treatment and disposal of domestic wastewater/sewage by the Urban Development and Housing Department through BUIDCO.

There are four operational Common Bio-Medical Waste Treatment Facility (CBWTFs) in State of Bihar, located at Patna, Bhagalpur, Muzaffarpur & Gaya. These facilities are providing their services for collection, treatment and disposal of bio-medical waste for the allotted districts. All health care facilities have to tie-up themselves with the respective biomedical waste treatment facilities to ensure proper treatment and disposal of the biomedical waste generated by them. The details of Common Bio-Medical Waste Treatment Centers and their related districts are as follows-

S. No.	Name of mass bio-medical waste treatment center and address	Respective districts
1	M/s Indira Gandhi Institute of Aryan Sciences, Sheikhpura, Patan- 800001. (M/s Sangam Mediserve Pvt. Ltd.	Patna, Bhojpur, Buxar, Nalanda, Rohtas and Bhabua.
2	M/s Synergy waste Management Pvt. Ltd., Hanurman Ghat Road, Jawaharlal Nehru Medical College Hospital, Bhagalpur	Banka, Bhagalpur, Begusarai, Jamui Khagaria, Lakhisarai, Munger, Katihar, Purnia, Ararai and Kishanganj.
3	M/s Medicare Environmental Management Pvt. Ltd., Muzaffarpur Industrial area, Bela, Muzaffarpur	Muzaffarpur, Sitamarhi, Shivhar, Vaishali, East Champaran, West Champaran, Saran, Siwan, Gopalganj, Darbhanga, Madhubani, Samastipur, Sarhasa, Madhepura and Supaul
4	M/s Synergy West Management Pvt. Ltd. Anugrah Narayan Magadh Medical College, Gaya	Gaya, Aurangabad, Jehanabad, Arwal, Nawada and Sheikhpura.

As per the provisions of the rules, a State Level Advisory Committee has been constituted under the chairmanship of the Principal Secretary, Health Department, GoB, with the aim of ensuring better management of bio-medical waste in the state. To monitor the compliance of these provisions, a District Level Monitoring Committee also has been constituted in every district under the chairmanship of the District Magistrate. The State Pollution Control Board has issued a direction of closure to 310 health care facilities due to non-compliance with the provisions of

the rules. BSPCB is committed for better management of bio-medical wastes considering its adverse effects on human health and the environment.

Action is taken under the relevant provisions against the industrial units which do not operate as per the provisions of the pollution control acts and rules and violate the directions. Based on the inspection conducted by the institute identified by the Central Pollution Control Board, Delhi, directions have been issued by the Board to a total of 22 industries which were not complying with the standards. A total environmental compensation of Rs. 39,68,97,657/- has been levied by the Board on the basis of 'Polluter Pays Principle' during the years 2016-17 to 2022-23.

In light to the interim order passed by the Honorable Supreme Court in Civil Appeal No. 3661-3662/2020 dated 10.11.2021, the settlement of sand ghats after approval from the District Survey Report (DSR) prepared by the sub-divisional level committee in all the districts. The settled sand ghats are allowed to be mined only after getting all the statutory clearances i.e., approved mining plan and environmental clearance issued from the competent authority. Guidelines are mentioned in the environmental clearance issued by the competent authority, EMGSM- 2020 SSMG- 2016. Mining work is done under the provisions mentioned in Bihar Mineral (Concession, Prevention of Illegal Mining Transport and Storage) Rules, 2019 (as amended) 2021. Out of the total 527 Balughats/clusters created within the state, the settlement of 267 Balughats/clusters has been completed through e-auction. Settlement of the remaining 260 sand ghats/clusters is under process.

The Mining department is continuously making efforts to prevent illegal mining. For regular action against illegal mining, transportation and storage, under Rule 74 of

Bihar Mineral (Contribution, Prevention of Illegal Mining, Transportation and Storage) Rules, 2019, a District Level Mining Task Force has been constituted under the chairmanship of the Collector. The meeting is usually held once a month. District Mining Task Force investigates illegal mining/transportation/overloading of minerals as well as the conduct of mining activities, the conditions of mining leases and the rules/orders/notifications given by the Department of Environment, Forest and Climate Change for the prevention of environmental damage. Raids are conducted regularly to check compliance.

A control room has been established at the headquarters level to provide any kind of information related to illegal mining, transportation, and storage of minerals. Through this, daily reports of action taken from the area are received and after review, necessary action is taken. The consolidated report of action taken against illegal mining in various districts for the financial years 2021-22, 2022-23 and 2023-24 (up to 31.10.2023) is as follows:

Year	Raid	FIR	Arresting	Revenue (lakhs)
2021&22	16504	3175	1760	16512-41
2022&23	22962	4437	2441	29900-08
2023&24 up to 31-10--2023	14637	2286	1170	15469-41

In light of the order passed in O.A. No.- 305/2023 dated 11.07.2023 by the Hon'ble National Green Tribunal, New Delhi, detailed guidelines were given to all the Collectors to prevent illegal mining, transportation and storage, which are as follows:-

In addition to other actions, district deportation or other strict action should be taken against habitual violators of illegal mining, transportation and storage.

In order to investigate illegal mining and transportation, action should be taken to suspend/cancel the driving license of the driver found guilty and suspend/cancel the permit of the vehicles used.

Along with imposing fines against drivers involved in illegal mining, transportation and storage, the owners of vehicles, illegal mining sites, routes used in transportation, owners of storage site land, users of illegal minerals were also identified, and action was taken under relevant provisions.

In case of illegal mining, the environmental damage should be assessed and the compensation amount should be recovered from the illegal miner. To assess the compensation, information about illegal mining, transportation and storage should be given to the Member Secretary, Bihar State Pollution Control Board, Patna.

The case of illegal mining pertains to theft of government property (minor minerals) as per the Indian Penal Code. The concerned police station head/police officer is the competent authority to register FIR/take legal action against illegal miners in relation to theft of government property (minor minerals). Therefore, in cases of illegal mining, action should be taken immediately to take priority/legal action related to theft of government property from the police station level.

The Honorable National Green Tribunal has given instructions to form a three-tier committee at the district level by the District Officer and conduct the monitoring. Accordingly, annual environmental audit should be conducted by constituting a

committee consisting of Ex-serviceman, Ex-Government officials of repute & Professor or Person having experience of mining/environment.

In light to the order passed by the Honorable National Green Tribunal, New Delhi in O.A. No. 305/2023 dated 11.07.2023, request to direct the concerned station head/police officers from their level for effective prevention of illegal mining, transportation and storage. This has been done by the Director General of Police, Bihar, Patna through departmental letter number- 3952 dated- 31.07.2023.

In light to the order passed by the Honorable National Green Tribunal, New Delhi in O.A. No. 305/2023 dated 11.07.2023, a request has been made to Transport Department, Bihar, Patna vide departmental letter no. 3950 dated 31.07.2023 to direct their officials at their level, to strictly comply with the instructions of the Honorable Green Tribunal to stop illegal mining, transportation, and storage.

In light of the order passed in O.A. No. 360/315, by Hon'ble NGT in order to strictly curb illegal mining, the provisions of punishment have been made more stringent by amending the Bihar Mineral (Concession, Prevention of Illegal Mining, Transport and Storage) (Amendment) Rules from 05.07.2021. At present there is a provision to impose the following penalty/compounding fee on vehicles involved in illegal mining and transportation: -

S. No.	Vehicle/Equipment	Compounding Fee
1	Trackter Trolly	INR 25000/-
2	Metador, Half Truck 407, 608	INR 50000/-
3	Full Body Truck/ Dumper (Hydraulic 6-wheeler vehicle)	INR 100000/-
4	10-wheeler or more wheeler vehicle	INR 200000/-

S. No.	Vehicle/Equipment	Compounding Fee
5	Crane, Excavator, loader, Power, Hamer, Compressor, Drilling machine etc.	INR 400000/-

The services of National Informatics Center (NIC) are being taken by the Mines and Geology Department for the development and installation of Integrated Mining Management Information System (IMMIS) using latest technology for IT management, process of e-challan issuance and effective monitoring of production, transportation and storage of minerals and prevention of illegal mining, transportation in the state. All vehicles used in sand transportation are required to mandatorily use GPS as per the specifications of the Ministry of Road Transport and Highways, Government of India and register on the portal of the Department of Mines and Geology. This has been done so that verification of vehicles can be ensured before issuing e-challan for minor mineral transportation.

36 (x) Direction: *CMC may consider development of an appropriate App to enable easy filing and redressal of grievances with regard to illegal discharge of sewage/effluents.*

36 (xi) Direction: *The monitoring by the CMC may have the target of reduction of pollution loads and improvement of water quality of rivers and coastal areas.*

36 (xii) Direction: *The CMC may also monitor the setting up of the bio-diversity parks, constructed wetlands and other alternative measures to reduce pollution load.*

36 (xiii) Direction: *The CMC may also monitor demarcation of flood plain zones.*

36 (xv) Direction: *CMC may submit its consolidated update report incorporating all the above, before the next date. Each action point mentioned in Para 26 may be individually covered and summarized in a tabular format.*

Compliance: The compliance of the directions from 36 (x) to (xiii) and (xv) are related to CMC.

36 (xiv) Direction: *The treated sewage water may be duly utilized for secondary purposes by preparing appropriate action plans and reports in this regard be filed with the CPCB periodically.*

Compliance: Please refer to the compliance report of the direction 39 (ii) (g) mentioned above for details.

ANNEXURE-I

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Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in May 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
1	03.05.2023	Patna	Digha Drain	7.2	130	342	266	35000	7.5	25	71	57	1400
2	03.05.2023	Hajipur	Subhash Chowk Nalla	7.4	145	373	245	30000	7.2	28	74	66	1400
3	03.05.2023	Dighwara	Bagahing Tola	7.5	125	323	236	35000	7.1	23	68	65	1700
4	03.05.2023	Dighwara	Marchav Baba Mandir	6.8	120	295	234	50000	7.2	28	63	61	1300
5	03.05.2023	Dighwara	Umv Nalla	7.2	95	347	258	50000	7.3	27	68	66	1400
6	03.05.2023	Dighwara	Post Office Road	7.3	95	329	302	35000	7.1	28	63	59	1300
7	03.05.2023	Dighwara	Market Area	6.6	120	352	305	35000	7.2	26	73	57	1400
8	03.05.2023	Dighwara	R. Primary School	7.5	115	326	245	50000	7.1	28	74	66	2100
9	03.05.2023	Dighwara	Barbana	7.2	120	302	264	35000	7.3	26	75	72	2000
10	03.05.2023	Dighwara	M.S Basadpur	7.2	120	326	245	50000	7.2	24	74	50	1700
11	04.05.2023	Kesariya	Chakiya Keshariya Road Bridge Drain, Keshariya	7.3	120	302	236	28000	7.2	25	80	50	2100
12	04.05.2023	Mahua	FCI Godown Drain, Mahua	7.6	125	321	234	50000	7.3	28	80	56	1400
13	04.05.2023	Mehsi	Data Mirja Halim Shah Mazar Drain, Mehshi	6.8	110	311	213	28000	7.4	23	86	58	1700
14	04.05.2023	Siwan	Near Shiv Mandir Drain, Siwan	7.2	120	314	264	35000	7.6	26	68	58	1400
15	04.05.2023	Siwan	ShivwaratSahMandir Drain, Siwan	7.3	120	276	245	35000	7.2	21	62	58	1700
16	04.05.2023	Siwan	Navalpur Drain, Siwan	7.3	120	314	236	35000	7.3	24	65	63	1700
17	04.05.2023	Siwan	KhurmabadTakiya Drain, Siwan	7.3	125	311	231	28000	7.2	23	69	64	1400
18	04.05.2023	Jogbani	Islampur Drain	7.2	115	314	236	35000	7.3	24	74	63	1700
19	04.05.2023	Mairwa	Infront of MahavirSewaSansthanDrain,Mai	7.2	125	319	231	28000	7.4	23	68	65	2100
20	05.05.2023	Raxaul	Drain at Chhatriya ghat	7.4	125	329	245	5000	7.6	26	63	52	2100

29/07/2023
(N. S. Maciv)

प्राध्यापक/Professor
जनपदीय अभियांत्रिकी विभाग, 28/7/23
Civil Engineering Department (Prof. Ashuman Singh)
राष्ट्रीय प्रौद्योगिकी संस्थान पटना-5
National Institute of Technology Patna-5

Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in May 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
21	05.05.2023	Raxaul	Drain at Custom check post bridge	7.5	125	319	264	35000	7.5	21	68	51	2100
22	05.05.2023	Raxaul	Drain At Naga Road	7.3	120	367	245	35000	7.3	24	57	54	1500
23	05.05.2023	Raxaul	Dayachak Nala	7.5	125	319	245	50000	7.2	22	61	54	1400
24	05.05.2023	Ramnagar	Mukhya Bazar Near Fish Market	7.4	145	289	268	28000	7.2	23	61	58	1300
25	05.05.2023	Ramnagar	Chatiya Ghat Drain (West)	7.5	130	250	269	35000	7.3	20	61	56	1400
26	05.05.2023	Ramnagar	Chatiya Ghat Drain (East)	7.2	130	240	258	35000	7.2	21	72	71	1400
27	05.05.2023	Ramnagar	Mill Quarter Drain	7.5	125	314	302	30000	7.1	20	63	65	1400
28	05.05.2023	Narkatiaganj	Near Power grid of sugar mill	7.3	125	316	305	35000	7.1	23	71	71	1300
29	05.05.2023	Narkatiaganj	Dhoom Nagar Mandir drain	7.2	130	287	245	35000	7.1	20	71	56	1100
30	05.05.2023	Motihari	Cold Storage Drain	7.5	125	321	264	28000	7.3	21	71	63	1100
31	05.05.2023	Motihari	Madhuban chowk drain	7.2	120	323	258	50000	7.2	22	72	69	1700
32	05.05.2023	Motihari	Chatwani Colony Drain, Near DDC Res.	7.5	125	323	302	35000	7.1	21	63	62	1400
33	05.05.2023	Motihari	Sugar Mill Drain	7.3	120	323	305	50000	7.2	28	72	54	2100
34	05.05.2023	Areraj	Balmiki Asthan Drain, Areraj, Motihari	7.4	110	326	245	28000	7.1	27	71	66	1700
35	05.05.2023	Areraj	Markanday Chock Drain, Areraj, Motihari	7.2	120	287	263	35000	7.2	28	62	88	1700
36	11.05.2023	Patna	Digha Drain	7.2	125	321	264	35000	7.3	28	63	62	1400
37	11.05.2023	Jamalpur	Ramnagar Nalla	7.1	120	323	245	30000	7.2	27	75	64	1400
38	11.05.2023	Jamalpur	Laxmipur Nalla	7.1	130	323	236	35000	7.1	28	66	59	1400
39	11.05.2023	Jamalpur	Aashikpur Nalla	7.2	130	326	234	50000	7.1	25	75	57	1400
40	11.05.2023	Jamalpur	Faridapur Nalla	7.1	130	287	213	35000	7.5	26	75	66	1700
41	11.05.2023	Kahagariya	P.W High School Nalla	7.6	145	326	258	35000	7.3	29	69	67	1700

28/07/2023

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National Institute of Technology Patna-5

28/7/23

Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in May 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
42	12.05.2023	Navgachhiya	New Basti Nalla	7.3	130	321	302	35000	7.2	28	70	54	2100
43	12.05.2023	Navgachhiya	Maa Tara Bhawan Nalla	7.3	125	323	305	28000	7.1	24	74	71	1400
44	12.05.2023	Navgachhiya	Ward No.-08 Nalla	7.2	120	323	245	24000	7.1	26	79	66	2100
45	12.05.2023	Navgachhiya	Station Road Nalla (1)	7.2	120	326	236	35000	7.2	29	79	58	2100
46	12.05.2023	Navgachhiya	Station Road Nalla (2)	7.1	120	273	275	50000	7.3	28	63	66	1700
47	12.05.2023	Navgachhiya	Durgaasthan Nalla	7.1	125	316	277	35000	7.3	27	63	65	1700
48	12.05.2023	Navgachhiya	Ward No.-03 Nalla	7.5	130	339	276	28000	7.2	26	62	51	1400
49	12.05.2023	Navgachhiya	Milan Chawk Nalla	7.1	145	334	284	28000	7.1	23	64	57	1400
50	12.05.2023	Navgachhiya	Ward No.-09 Nalla	7.3	120	311	269	35000	7.6	20	69	51	1700
51	12.05.2023	Navgachhiya	Noniyapatti, Ward No.-20 Nalla	7.2	110	319	250	50000	7.3	27	68	47	2100
52	12.05.2023	Navgachhiya	Musharpatti, Ward No.-13 Nalla	7.2	105	324	254	35000	7.3	28	69	58	2100
53	12.05.2023	Navgachhiya	Rajendra Colony, Ward No.-05 Nalla	7.4	125	300	263	50000	7.4	28	70	51	2100
54	12.05.2023	Navgachhiya	Nagar Panchyat Karyalaya Ke Bagal Me Ward No.-16	7.5	130	311	264	35000	7.6	27	69	50	1700
55	12.05.2023	Navgachhiya	Hardiyapatti, Ward No.-21 Nalla	7.3	130	326	235	35000	7.5	16	75	50	1400
56	12.05.2023	Simri Bakhtiyarpur	Ranihat , CHowdhery tola basti, near 107 NH (Simri Bakhtiyar, Saharsha)	7.2	145	331	298	24000	7.2	21	79	49	2100
57	18.05.2023	Patna	Digha Drain	7.2	125	287	237	35000	7.1	24	75	47	1700
58	18.05.2023	Manihari	Pirpatra Nalla	7.4	120	321	268	50000	7.3	23	75	58	1700
59	18.05.2023	Manihari	Primari Health School Nalla	7.3	125	311	277	35000	7.2	24	61	54	1400
60	18.05.2023	Jogbani	Haji Mohalla Drain	7.5	125	323	276	30000	7.1	24	65	54	1300
61	18.05.2023	Jogbani	Khajur Bari Drain	7.2	130	326	275	35000	7.1	22	63	58	1700

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National Institute of Technology Patna-5

Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in May 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
62	18.05.2023	Jogbani	Idgah Chawk	7.5	130	331	274	50000	7.2	29	65	57	1300
63	19.05.2023	Kishanganj	TegariaMadhav Nagar Meat Market drain, Kishanganj	7.3	145	323	265	35000	7.3	28	73	66	1400
64	19.05.2023	Kishanganj	Pilkhana Road drain, Kishanganj	7.2	130	342	264	30000	7.5	25	70	58	1300
65	19.05.2023	Kishanganj	Khankha drain, Kishanganj	7.5	125	331	245	35000	7.2	24	71	47	1500
66	19.05.2023	Kishanganj	DharamganjMajhia drain, Kishanganj	7.2	120	381	236	50000	7.4	25	68	50	1400
67	19.05.2023	Gopalganj	Sri Ram Nagar Drain	7.5	125	331	236	50000	7.5	22	68	50	1400
68	24.05.2023	Patna	Digha Drain	7.2	125	316	234	35000	7.2	27	80	47	1400
69	24.05.2023	Samastipur	Kabristan Drain, Near Bus stand, Dumra Road, Sitamarhi	7.3	125	323	213	35000	7.5	26	70	52	1700
70	24.05.2023	Samastipur	ChakMaila Drain, Rajopatti	7.3	135	326	264	50000	7.2	29	68	62	1700
71	24.05.2023	Dumra	Main Drain, Dumra,Near Treasury Bridge	6.8	140	323	245	35000	7.1	28	71	58	2100
72	24.05.2023	Dhaka, West Champaran	Chainpur Dhaka Drain, Dhaka	7.2	125	381	236	50000	7.2	26	72	58	1400
73	24.05.2023	Belsand	Mestartola drain, Belsand	7.4	110	331	231	28000	7.1	27	71	55	1700
74	24.05.2023	Belsand	Babar kigali drain, Belsand .-	7.3	135	316	245	50000	7.1	24	76	55	2100
75	24.05.2023	Belsand	Main road to Chandeshwarsingh residence drain, Belsand	7.3	125	323	245	28000	7.2	26	73	49	2100
76	25.05.2023	Samastipur	Jamuari River Pool (Mohanpur) Drain	7.3	130	326	264	35000	7.1	28	78	63	2100
77	25.05.2023	Samastipur	BhramasthanGali drain, Rajopatti, Sitamarhi	6.9	120	323	245	35000	7.5	23	71	50	1700

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National Institute of Technology Patna-5

Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in May 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
78	25.05.2023	Darbhanga	Balu Ghat Drain,	7.2	115	347	245	35000	7.2	21	67	56	1600
79	25.05.2023	Darbhanga	Gayatri Mandir Ghat Drain,	7.2	120	331	236	35000	7.2	21	68	58	1300
80	25.05.2023	Dalsingh Sarai	BadiGudri Drain, Dalsingh Sarai, Samastipur	6.8	130	373	231	35000	7.2	20	66	58	1100
81	25.05.2023	Dalsingh Sarai	BadiThakurwari Drain, Dalsingh Sarai, Samastipur	7	115	323	245	28000	7.5	21	63	52	1100
82	25.05.2023	Dalsingh Sarai	Dhobi Ghat Drain, Dalsingh Sarai, Samastipur	6.9	125	287	236	35000	7.3	20	63	52	1300
83	26.05.2023	Benipur	Primary school aashapur drain	7.1	125	316	231	50000	7.2	25	62	50	1700
84	26.05.2023	Teghra	Teghra Chowk	7.6	125	323	236	35000	7.1	26	64	51	1700
85	26.05.2023	Teghra	Mukhtar Maidan Drain	6.8	125	326	269	35000	7.4	27	66	59	1400
86	26.05.2023	Jamalpur	Ramnagar Nalla	7.1	110	323	258	35000	7.1	26	63	59	1400
87	26.05.2023	Jamalpur	Laxmipur Nalla	7.2	120	347	302	28000	7.3	26	71	57	1700
88	26.05.2023	Jamalpur	Faridapur Nalla	7.3	120	323	305	24000	7.2	25	70	66	2100
89	26.05.2023	Kahagariya	P.W High School Nalla	7.2	120	323	245	35000	7.1	20	71	67	1700
90	29.05.2023	Ramnagar	Mill Quarter Drain	7.1	125	326	264	35000	7.1	19	72	64	1700
91	29.05.2023	Raxaul	Drain at Chhatriya ghat	7.1	125	287	258	50000	7.3	24	68	54	2100
92	29.05.2023	Raxaul	Drain At Naga Road	7.3	110	326	302	35000	7.3	23	66	66	2100
93	29.05.2023	Ramnagar	Mukhya Bazar Near Fish Market	7.3	125	323	305	35000	7.5	28	75	55	2100
94	29.05.2023	Siwan	Near Shiv Mandir Drain, Siwan	7.3	125	311	245	30000	7.2	26	75	54	1400
95	29.05.2023	Siwan	ShivwaratSahMandir Drain, Siwan	7.4	125	314	269	35000	7.1	21	75	56	1400
96	29.05.2023	Siwan	Navalpur Drain, Siwan	7.2	130	326	258	50000	7.3	28	55	59	1300

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National Institute of Technology Patna-5

Results of wastewater analysis of samples collected at inlet and outlet of 33 drains in May 2023 (M/s Organica Biotech Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
1	03.05.2023	Arah	Sapna Cinema Drain	7.2	105	276	234	35000	7.4	20	62	66	1500
2	03.05.2023	Arah	Bind Toli-Ujiyar Tola Drain	7.5	110	314	256	32000	7.2	21	64	67	1400
3	03.05.2023	Arah	Awarpool Drain	7.2	130	316	264	35000	7.6	20	68	68	1300
4	03.05.2023	Dumraon	Kewra Bagh Drain	6.9	125	324	245	50000	7.5	21	66	52	1400
5	03.05.2023	Dumraon	Central Drain	7.3	125	321	289	35000	7.2	24	76	68	1300
6	04.05.2023	Dehri	Main Bazar Drain	7.2	130	344	252	35000	7.3	20	81	68	1700
7	04.05.2023	Arwal	Janakpur Ghat Drain	7.5	140	342	245	35000	7.2	21	81	71	1700
8	04.05.2023	Arwal	Sahi Mohalla Drain	7.2	135	276	255	50000	7.1	24	70	67	1700
9	04.05.2023	Arwal	Karbala Maidan Drain	7.4	110	273	287	45000	7.1	25	64	67	1400
10	04.05.2023	Arwal	Kagzi Mohalla Drain	7.3	105	271	235	35000	7.3	26	55	70	2100
11	04.05.2023	Arwal	Muradpur Chowki Drain	7.6	110	266	284	50000	7.6	21	53	72	1700
12	04.05.2023	Arwal	Brahmsthani Drain	7.6	105	283	298	50000	7.2	22	69	68	1400
13	04.05.2023	Dehri Dalmiyanagar	Canal Road Drain	6.8	115	273	264	35000	7.2	21	70	71	1400
14	04.05.2023	Aurangabad	Dani Bigha Drain Ward No.-3	7.2	125	323	245	35000	7.1	26	72	72	1400
15	04.05.2023	Aurangabad	Nawadih Drain	7.3	125	331	264	50000	7.1	24	68	67	1700
16	04.05.2023	Aurangabad	Barat Pool Tiwari Ghat Drain	7.2	125	319	245	35000	7.1	25	72	72	1400
17	10.05.2023	Gaya	Nadraganj Drain, Gaya	7.1	125	289	245	30000	7.4	24	66	71	1700
18	10.05.2023	Gaya	kirani Ghat	7.5	130	250	236	28000	7.3	23	73	68	2100
19	10.05.2023	Gaya	Madhusarwa Ghat Drain	7.2	145	240	231	35000	7.3	26	71	69	1100
20	10.05.2023	Bodhgaya	Raja Pool Drain, Bodh Gaya	7.4	130	314	287	45000	7.4	23	69	66	2100
21	10.05.2023	Bodhgaya	Godam Road Drain, Bodh	6.7	120	316	269	25000	7.2	24	70	55	2100
22	11.05.2023	Muzaffarpur	Soda Gosown Sluice Gate	7.2	150	329	289	35000	7.1	23	74	54	2100
23	11.05.2023	Darbhanga	Allapatti Drain	7.3	160	309	231	28000	7.1	27	79	56	1700

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28/7/23
(Prof. Anshuman Singh)

Results of wastewater analysis of samples collected at inlet and outlet of 33 drains in May 2023 (M/s Organica Biotech Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
24	11.05.2023	Samastipur	MagardahiGhat Drain, Main	7.3	120	311	245	35000	7.4	26	67	59	1400
25	11.05.2023	Dalsingh Sarai, Samastipur	Lahariya Bazar-2, MahadevAsthan, Dalsingh Sarai, Samastipur	6.6	130	314	223	50000	7.3	23	61	65	2100
26	16.05.2023	Darbhanga	Qilla Ghat	7.1	125	319	305	50000	7.1	23	70	76	2000
27	16.05.2023	Jamui	Babu Tola Drain	6.8	125	329	245	35000	7.1	26	72	69	1700
28	16.05.2023	Jamui	Yadav BastiMohala Drain	6.5	120	319	264	50000	7.3	25	68	65	2100
29	16.05.2023	Gopalganj	Haziapur Block Drain	7.4	145	367	245	35000	7.3	26	68	70	1400
30	16.05.2023	Gopalganj	Haziapur Pool Drain	7.2	125	323	236	28000	7.2	21	78	65	1700
31	16.05.2023	Gopalganj	Dargah Road Drain	6.9	125	347	234	35000	7.2	22	79	69	1700
32	16.05.2023	Motihari	Rowing Club Drain	6.7	120	373	213	28000	7.5	21	69	59	1400
33	16.05.2023	Motihari	Refuse Colony Drain	7.2	110	326	264	26000	7.3	24	73	52	2100
34	24.05.2023	Arah	Sapna Cinema Drain	6.8	120	329	245	35000	7.6	26	68	71	1700
35	24.05.2023	Arah	Bind Toli-Ujiyar Tola Drain	7.3	125	342	236	35000	7.2	23	79	70	1400
36	24.05.2023	Arah	Awarpool Drain	7.2	125	323	231	50000	7.1	26	72	63	1700
37	24.05.2023	Dumraon	Central Drain	6.7	125	326	245	35000	7.2	21	70	58	1700
38	24.05.2023	Dehri	Main Bazar Drain	7.2	130	326	236	35000	7.3	22	81	59	1400
39	24.05.2023	Gaya	Nadraganj Drain, Gaya	7.5	130	250	231	35000	7.1	24	74	57	1700
40	24.05.2023	Gaya	kirani Ghat	7.3	145	381	236	35000	7.1	23	79	66	2100
41	24.05.2023	Gaya	Madhusarwa Ghat Drain	6.8	125	331	231	35000	7.1	20	63	64	2100
42	25.05.2023	Darbhanga	Allapatti Drain	6.9	120	314	245	30000	7.3	23	63	66	2100

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28/07/2023
(N. S. Maurya)

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Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in May 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd JV Sai Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
1	04.05.2023	Patna	Mandiri (Bans Ghat Nalla)	7.6	115	347	245	50000	7.2	25	71	57	1700
2	04.05.2023	Patna	Badshahi Nala	6.6	125	329	264	35000	6.9	27	71	54	1700
3	04.05.2023	Patna	Kurji Drain	6.5	125	352	245	50000	6.8	26	72	58	1700
4	04.05.2023	Patna	Krishna Ghat Nalla	7.5	135	326	245	35000	7.3	21	63	52	2100
5	04.05.2023	Patna	Barharwa Ghat Nalla	7.6	120	302	236	35000	7.3	19	70	55	1400
6	04.05.2023	Patna	Rani Ghat Nalla	7.3	125	326	234	35000	7.3	21	72	59	1700
7	04.05.2023	Patna	Ghagha Ghat Nalla	6.9	120	302	213	35000	7.4	23	69	52	1700
8	04.05.2023	Patna	Masjid Ghat Nalla	7.3	130	321	264	50000	7.1	24	64	68	1700
9	04.05.2023	Patna	Loharwa Ghat Nalla	7.2	130	323	254	28000	7.2	26	84	68	2100
10	04.05.2023	Patna	Gosai Ghat Nalla	7.1	125	324	256	35000	7.1	27	79	67	2100
11	04.05.2023	Patna	Nauzar Ghat Nalla	7.1	145	321	245	35000	7.1	24	79	58	1700
12	04.05.2023	Patna	Gay Ghat Nalla	6.9	125	344	231	50000	6.7	23	56	68	1400
13	04.05.2023	Patna	Balu Ghat Nalla	6.9	125	342	245	28000	7.3	21	72	58	2100
14	04.05.2023	Patna	Anta Ghat Nalla	7.4	120	276	231	35000	7.2	24	67	68	1400
15	04.05.2023	Patna	Mitan Ghat drain	7.4	125	273	236	35000	7.1	26	69	62	1400
16	05.05.2023	Bhagalpur	S.T.P Nalla Bhagalpur	7.5	125	295	231	50000	7.1	25	68	57	1700
17	05.05.2023	Bhagalpur	Barari Ghat Nala, Near Vikramshila bridge	6.9	130	347	245	50000	7.2	25	69	59	1100
18	05.05.2023	Bhagalpur	DN Singh Drain	6.9	125	302	231	35000	7.3	23	80	64	1300
19	05.05.2023	Bhagalpur	Champanalla -1	7.5	125	321	245	35000	7.1	24	76	63	1100
20	05.05.2023	Bhagalpur	Champa Nalla -2	6.6	145	323	235	35000	7.3	26	81	63	2100
21	05.05.2023	Bhagalpur	Surkhikal Drain	7.4	125	323	245	50000	7.3	23	75	63	1700
22	05.05.2023	Bhagalpur	Saklichand Drain	7.1	120	298	223	50000	7.2	21	69	61	1700
23	05.05.2023	Bhagalpur	Koyal Ghat	7.2	125	279	236	50000	7.3	22	75	61	1700
24	05.05.2023	Bhagalpur	Hathiya Nalla, Near Tilkamanjhi	6.9	130	365	245	35000	7.2	25	69	64	1400
25	05.05.2023	Munger	Lal Darwaja Drain	7.1	130	345	231	28000	7.4	23	74	63	2100

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forwarded

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Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in May 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd JV Sai Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
26	06.05.2023	Phulwarisa riff	Issopurrai Chowk Nalla	7.3	125	345	233	35000	7.5	23	74	67	1700
27	06.05.2023	Phulwarisa riff	Birla Colony Nalla A	6.9	130	245	235	50000	7.3	24	71	63	1400
28	06.05.2023	Phulwarisa riff	Birla Colony Nalla B	7.5	120	314	235	50000	7.4	27	55	70	1700
29	06.05.2023	Maner	Maner Bazar Nalla	7.3	120	291	236	35000	7.3	25	84	70	1400
30	06.05.2023	Maner	Ram Nagina Singh College Nalla	7.5	125	299	235	35000	7.2	25	79	52	1400
31	06.05.2023	Maner	Ram Ghat Nalla	7.3	125	296	298	35000	7.1	27	72	68	1700
32	06.05.2023	Fatuha	Maksudpur Nalla (East)	7.2	130	301	237	35000	7.3	24	70	71	1700
33	06.05.2023	Fatuha	Maksudpur Nalla (West)	6.5	145	316	268	50000	7.2	21	81	55	2100
34	06.05.2023	Fatuha	Kataiya Ghat	6.9	120	314	277	35000	7.1	21	61	51	1400
35	06.05.2023	Fatuha	Mastana Ghat	7.2	110	342	276	35000	7.3	20	81	64	1700
36	06.05.2023	Fatuha	Bankipur Ghorkak Nalla	6.6	150	250	237	35000	7.2	19	70	63	2100
37	11.05.2023	Patna	Mandiri (Bans Ghat Nalla)	6.9	125	381	238	35000	6.8	21	64	59	1700
38	11.05.2023	Patna	Badshahi Nala	6.7	125	331	222	28000	6.9	22	70	74	1700
39	11.05.2023	Patna	Kurji Drain	6.6	130	316	201	35000	6.7	21	81	67	2100
40	11.05.2023	Buxar	Tadka Nalla	7.5	130	316	255	50000	7.2	20	70	66	1400
41	11.05.2023	Buxar	Sati Ghat	7.3	140	342	264	50000	7.1	25	64	61	1400
42	11.05.2023	Buxar	Bangla Ghat Nalla	7.2	135	331	260	50000	7.1	24	55	62	1700
43	11.05.2023	Buxar	Sidhnath Drain	7.3	105	381	264	28000	6.9	23	53	59	1700
44	11.05.2023	Buxar	Saripur Drain	7.2	120	331	238	28000	7.3	22	69	61	2100
45	11.05.2023	Buxar	Nath Baba Drain	7.4	120	374	241	50000	7.1	25	70	56	1400
46	12.05.2023	Bhabhua	Akhlashpur Drain Bhabhua Nagar Parisad, Bhabhua	6.9	130	316	236	35000	7.1	24	68	58	1700
47	12.05.2023	Bhabhua	Asthbhuji Chowk Drain, Bhabhua	7.1	145	323	219	28000	7.4	23	68	58	2100

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28/5/23

Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in May 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd JV Sai Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
48	12.05.2023	Bhabhua	Purva Pokhra Drain, Bhabhua	7.1	125	326	300	28000	7.3	19	68	58	2100
49	12.05.2023	Bhabhua	Drain Near Hanuman Mandir at Suara River, Bhabhua	6.9	115	323	288	35000	7.3	24	73	57	2100
50	12.05.2023	Bikramganj	Bikramganj kashighat drain, Bikramganj	7.4	130	347	266	35000	7.2	23	78	52	1700
51	12.05.2023	Bikramganj	Bikramganj thana chowk drain, Bikramganj	7.6	125	323	268	50000	7.4	21	68	66	1700
52	12.05.2023	Nasriganj	Nasriganj urdu vidyalaya Drain	6.8	130	347	269	35000	7.5	27	70	52	1400
53	12.05.2023	Nokha	NokhaDafartola drain	7.4	125	302	258	35000	7.2	23	81	59	1400
54	12.05.2023	Arah	Sant Hospital bypass Road drain	6.9	145	373	302	35000	7.3	27	70	61	2100
55	13.05.2023	Nabinagar	Sangam Studio Drain, Nabinagar	7.3	125	323	305	35000	7.3	26	77	61	1700
56	13.05.2023	Bikram	Ashpura Drain	7.2	120	295	245	50000	7.2	21	72	58	1700
57	13.05.2023	Arwal	Malhi Patti Drain	6.6	120	326	264	35000	6.8	27	66	60	1400
58	13.05.2023	Arwal	Burhwa Mahadev Drain	7.4	125	287	235	35000	7.5	21	68	58	1400
59	13.05.2023	Arwal	Baidrabad English Drain	7.5	135	316	198	35000	7.2	27	70	59	1400
60	13.05.2023	Arwal	Dr. Hiralal Galli Drain	7.1	120	372	213	50000	7.4	25	69	59	1700
61	13.05.2023	Bodhgaya	Pachhati Bridge Drain, Bodh Gaya	7.4	115	319	275	35000	7.3	21	75	59	1400
62	13.05.2023	Serghati	KhaterMoree Drain, Serghati, Gaya	7.3	120	316	274	35000	7.2	21	79	57	1700
63	13.05.2023	Jehanabad	Algna Drain, Jehanabad	7.1	115	310	265	35000	7.2	23	72	66	2100
64	13.05.2023	Jehanabad	Daulatpur Drain, Jehanabad	6.7	130	308	266	35000	7.3	25	77	57	1100

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28/11/23

drains in May 2023 (M/s Org

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Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in May 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd JV Sai Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
65	13.05.2023	Jehanabad	Raja Bazar Drain, Jehanabad	7.4	125	313	254	35000	7.2	24	72	69	2100
66	13.05.2023	Islampur	Drain of Maharanapratap Nagar, Islampur	6.8	115	329	263	50000	7.1	21	66	59	2100
67	18.05.2023	Patna	Mandiri (Bans Ghat Nalla)	7.3	115	323	264	35000	7.1	23	72	59	2100
68	18.05.2023	Patna	Badshahi Nala	7.4	115	326	235	50000	7	21	66	52	1700
69	18.05.2023	Patna	Kurji Drain	6.8	110	287	298	50000	7.1	26	71	68	1700
70	18.05.2023	Jamui	Polytechnic college drain	6.9	120	326	237	35000	7.1	22	71	51	1400
71	18.05.2023	Barh	Dhobiya Ghat, Laxmi Flour Mill	7.4	125	323	268	35000	7.2	24	71	52	1100
72	18.05.2023	Barh	Gaurishankar Ghat	7.4	130	326	277	35000	7.1	28	72	68	1300
73	18.05.2023	Barh	Talimpur Nalla	7.5	125	331	276	35000	7.3	25	63	68	1700
74	19.05.2023	Mokama	Chaudhry Ghat, Pipaltal	6.9	130	323	275	35000	7.2	24	71	54	1700
75	19.05.2023	Lakhisarai	MahaveerAsthan, Purani Bazar drain	6.5	125	342	274	28000	7.6	23	69	67	1400
76	19.05.2023	Lakhisarai	BadhiDargah drain	6.6	115	331	265	24000	7.4	28	68	67	1400
77	19.05.2023	Jhajha	Ganeshi Mandir Drain	7.2	115	381	297	35000	7.2	24	69	55	1700
78	19.05.2023	Jhajha	Charghara Drain	7.1	115	331	234	35000	7.5	24	70	61	1400
79	19.05.2023	Barahiya	Krishn Chawk Nalla	6.8	120	321	256	50000	7.1	24	69	54	1300
80	19.05.2023	Barahiya	Baba Danimohalla Nalla	7.3	115	344	234	35000	7.1	27	75	69	1100
81	19.05.2023	Barahiya	Bangalkunj Taal Nalla	7.3	125	326	200	50000	7.1	24	79	55	1100
82	19.05.2023	Barahiya	Bah Path Nalla	7.2	120	326	198	35000	7.2	23	75	62	1700
83	20.05.2023	Amarpur	Ajiyar Drain, Amarpur	7.1	120	373	197	28000	7.3	20	75	54	1400
84	20.05.2023	Banka	Gandhi Chowk Drain, Naya Tola, Banka	7.4	125	323	195	35000	7.3	21	72	57	2100
85	20.05.2023	Banka	Vijay Nagar Drain — 1, Banka	7.2	105	295	245	35000	7.1	27	71	71	1700

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28/7/23

Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in May 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd. & M/s Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
86	20.05.2023	Banka	Vijay Nagar Drain —2, Banka	7.3	140	347	264	50000	7	23	76	67	1700
87	20.05.2023	Kahalgaon	Korwa Nala	7.4	145	329	245	35000	7.3	27	66	71	1400
88	20.05.2023	Kahalgaon	Kaggi Nala	6.9	125	352	245	35000	7.3	25	82	56	1400
89	20.05.2023	Sultanganj	Vishari Asthan Ghat Nalla (1st)	7.1	125	326	269	30000	7.1	23	71	63	2100
90	20.05.2023	Sultanganj	Krishngarh Bhattagali Nalla	7.2	130	302	289	35000	7.1	21	65	42	1700
91	20.05.2023	Sultanganj	New Sidhi Ghat Nalla	7.1	140	359	231	50000	7.2	27	76	54	1700
92	25.05.2023	Patna	Mandiri (Bans Ghat Nalla)	7.1	125	369	245	35000	7.3	23	70	57	1400
93	25.05.2023	Patna	Badshahi Nala	7.3	115	323	223	30000	7.3	25	69	45	2100
94	25.05.2023	Patna	Kurji Drain	6.7	135	326	245	28000	7.5	21	75	52	1700
95	25.05.2023	Patna	Krishna Ghat Nalla	7.5	125	287	231	35000	7.2	20	79	51	1700
96	25.05.2023	Patna	Anta Ghat Nalla	6.8	135	321	236	50000	7.2	21	81	54	1700
97	25.05.2023	Patna	Mitan Ghat drain	7	120	323	231	35000	7.3	20	70	47	1400
98	25.05.2023	Bhagalpur	DN Singh Drain	7.3	125	323	245	30000	7.1	19	70	50	2100
99	25.05.2023	Bhagalpur	Champanalla -1	7.1	115	316	275	28000	7.1	27	75	51	1700
100	25.05.2023	Bhagalpur	Champa Nalla -2	7.4	125	323	277	35000	7.5	25	73	49	1400
101	25.05.2023	Bhagalpur	Surkhikal Drain	7.5	120	326	276	50000	7.1	26	84	49	1700
102	25.05.2023	Bhagalpur	Saklichand Drain	6.8	125	279	284	50000	7.3	25	70	49	1400
103	25.05.2023	Bhagalpur	Koyal Ghat	7.4	120	316	269	35000	7	23	79	56	2100
104	25.05.2023	Bhagalpur	Hathiya Nalla, Near Tilkamanjhi	7.4	130	324	275	50000	7.2	22	66	59	2100
105	29.05.2023	Munger	Lal Darwaja Drain	7.1	125	329	263	35000	7.6	27	68	70	1400
106	29.05.2023	Buxar	Nath Baba Drain	7.6	115	352	251	28000	7.3	24	81	59	1400
107	29.05.2023	Bhabhua	Akhlashpur Drain Bhabhua Nagar Parisad, Bhabhua	7.4	125	326	236	35000	7.1	25	61	52	1300
108	29.05.2023	Bhabhua	Asthbhuji Chowk Drain, Bhabhua	7.5	120	302	229	28000	7.1	24	81	58	1400

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Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in May 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd JV Sai Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
109	29.05.2023	Jehanabad	Algna Drain, Jehanabad	7.2	135	326	297	35000	7.1	25	70	56	1400

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Results of wastewater analysis of samples collected at inlet and outlet of 33 drains in June 2023 (M/s Organica Biotech Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
1	05.06.2023	Arah	Sapna Cinema Drain	7.2	110	319	223	30000	7.3	24	68	65	1700
2	05.06.2023	Arah	Bind Toli-Ujiyar Tola Drain	6.9	105	289	305	28000	7.3	25	72	66	1400
3	05.06.2023	Arah	Awarpool Drain	7.1	115	250	245	35000	7.1	24	66	55	1700
4	05.06.2023	Dumraon	Kewra Bagh Drain	7.2	125	240	264	45000	7.2	23	70	54	2100
5	05.06.2023	Dumraon	Central Drain	7.3	125	314	245	25000	7.1	26	71	56	1100
6	05.06.2023	Dehri	Main Bazar Drain	7.3	125	316	236	35000	7.1	23	69	59	2100
7	05.06.2023	Arwal	Janakpur Ghat Drain	6.9	125	329	234	28000	7.4	24	70	65	2100
8	05.06.2023	Arwal	Sahi Mohalla Drain	7.1	130	309	213	35000	7.3	23	74	62	2100
9	05.06.2023	Arwal	Karbala Maidan Drain	7.1	145	311	264	50000	7.1	27	79	69	1700
10	05.06.2023	Arwal	Kagzi Mohalla Drain	7.3	130	314	245	50000	7.1	26	67	65	1400
11	05.06.2023	Arwal	Muradpur Chowki Drain	7.4	120	319	236	35000	7.3	23	61	70	2100
12	05.06.2023	Arwal	Brahmsthani Drain	7.2	150	329	231	50000	7.3	23	70	65	2000
13	06.06.2023	Dehri Dalmiyanagar	Canal Road Drain	7.4	160	319	245	35000	7.2	26	72	69	1700
14	06.06.2023	Aurangabad	Dani Bigha Drain Ward No.- 3	7.5	120	367	236	28000	7.2	25	68	59	2100
15	06.06.2023	Aurangabad	Nawadih Drain	7.2	130	323	231	35000	7.5	26	68	52	1400
16	06.06.2023	Aurangabad	Barat Pool Tiwari Ghat Drain	7.6	125	347	236	28000	7.3	21	78	67	1700
17	13.06.2023	Gaya	Nadraganj Drain, Gaya	7.3	125	373	231	26000	7.6	22	79	65	1700
18	13.06.2023	Gaya	kirani Ghat	7.2	120	326	245	35000	7.2	21	69	63	1400
19	13.06.2023	Gaya	Madhusarwa Ghat Drain	7.5	145	329	234	35000	7.1	24	73	58	2100
20	13.06.2023	Bodhgaya	Raja Pool Drain, Bodh Gaya	7.2	125	342	256	50000	7.2	26	68	59	1700
21	13.06.2023	Bodhgaya	Godam Road Drain, Bodh	6.7	125	323	264	35000	7.3	23	79	57	1400
22	13.06.2023	Muzaffarpur	Soda Gosown Sluice Gate	7.3	120	326	245	35000	7.1	26	72	66	1700

28/07/23
(M. S. Maurya)

28/7/23
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Wastewater analysis of samples collected at inlet and outlet of 33 drains in June 2023 (M/s Organica Biotech Pvt Ltd / M/s Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
23	13.06.2023	Darbhanga	Allapatti Drain	6.8	110	326	289	35000	7.1	21	70	64	1700
24	13.06.2023	Samastipur	MagardahiGhat Drain, Main	6.9	120	250	252	35000	7.1	22	75	66	1400
25	13.06.2023	Dalsingh Sarai, Samastipur	Lahariya Bazar-2, MahadevAsthan, Dalsingh Sarai, Samastipur	7.2	125	381	245	35000	7.3	24	74	66	1700
26	19.06.2023	Darbhanga	Qilla Ghat	6.8	125	331	255	30000	7.4	23	79	67	2100
27	19.06.2023	Jamui	Babu Tola Drain	7.2	125	314	287	35000	7.2	20	63	68	2100
28	19.06.2023	Jamui	Yadav BastiMohala Drain	6.9	130	276	235	32000	6.8	23	63	52	2100
29	19.06.2023	Gopalganj	Haziapur Block Drain	7.3	130	314	284	35000	7.3	20	62	68	1500
30	19.06.2023	Gopalganj	Haziapur Pool Drain	7.2	145	316	298	50000	7.2	21	64	68	1400
31	19.06.2023	Gopalganj	Dargah Road Drain	7.1	125	324	264	35000	7.3	20	68	71	1300
32	19.06.2023	Motihari	Rowing Club Drain	7.2	120	321	245	35000	7.2	21	66	67	1400
33	19.06.2023	Motihari	Refuse Colony Drain	6.9	105	344	264	35000	7.1	24	76	67	1300
34	26.06.2023	Arah	Sapna Cinema Drain	7.3	110	342	245	50000	7.1	20	81	70	1700
35	26.06.2023	Arah	Bind Toli-Ujiyar Tola Drain	7.6	130	276	245	45000	7.3	21	81	72	1700
36	26.06.2023	Arah	Awarpool Drain	6.9	125	273	236	35000	7.2	24	70	68	1700
37	26.06.2023	Dumraon	Central Drain	7.1	125	271	231	50000	7.2	25	64	65	1400
38	26.06.2023	Dehri	Main Bazar Drain	7.2	130	266	287	50000	7.2	26	55	72	2100
39	26.06.2023	Gaya	Nadraganj Drain, Gaya	7.3	140	283	269	35000	7.1	21	53	67	1700
40	26.06.2023	Gaya	kirani Ghat	7.2	135	273	289	35000	7.1	22	69	72	1400
41	26.06.2023	Gaya	Madhusarwa Ghat Drain	7.1	110	323	231	50000	7.1	21	70	67	1400
42	26.06.2023	Darbhanga	Allapatti Drain	6.8	105	331	245	35000	7.4	26	72	68	1400

forwarded

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28/7/23

Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in June 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd JV Sai Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
1	05.06.2023	Patna	Mandiri (Bans Ghat Nalla)	6.8	120	302	201	50000	7.2	22	69	56	2100
2	05.06.2023	Patna	Badshahi Nala	6.8	125	321	255	50000	7.3	25	70	66	1700
3	05.06.2023	Patna	Kurji Drain	6.9	125	323	264	35000	7.2	23	69	61	1700
4	05.06.2023	Patna	Krishna Ghat Nalla	6.9	130	323	260	28000	7.4	23	75	62	1400
5	05.06.2023	Patna	Barharwa Ghat Nalla	7.1	145	298	264	35000	7.5	24	79	59	1400
6	05.06.2023	Patna	Rani Ghat Nalla	7.2	120	279	238	50000	7.3	27	75	61	1400
7	05.06.2023	Patna	Ghagha Ghat Nalla	7.1	110	365	241	50000	7.4	25	75	56	1700
8	05.06.2023	Patna	Masjid Ghat Nalla	7.2	150	345	236	35000	7.3	25	72	58	1400
9	05.06.2023	Patna	Loharwa Ghat Nalla	7.1	125	345	219	35000	7.2	27	71	58	1700
10	05.06.2023	Patna	Gosai Ghat Nalla	7.1	125	245	300	35000	7.1	24	71	58	2100
11	05.06.2023	Patna	Nauzar Ghat Nalla	7.3	130	314	288	35000	7.3	21	66	57	1100
12	05.06.2023	Patna	Gay Ghat Nalla	7	130	291	266	50000	7.2	21	82	52	2100
13	05.06.2023	Patna	Balu Ghat Nalla	7.5	140	299	268	35000	7.1	20	71	66	2100
14	05.06.2023	Patna	Anta Ghat Nalla	7.3	135	296	269	35000	7.3	19	65	52	2100
15	05.06.2023	Patna	Mitan Ghat drain	7	105	301	258	35000	7.2	21	76	59	1700
16	06.06.2023	Bhagalpur	S.T.P Nalla Bhagalpur	6.9	120	316	302	35000	7.1	22	70	61	1700
17	06.06.2023	Bhagalpur	Barari Ghat Nala, Near Vikramshila bridge	6.8	120	314	305	28000	7.3	21	69	61	1400
18	06.06.2023	Bhagalpur	DN Singh Drain	7.1	130	342	245	35000	7.3	20	75	58	1100
19	06.06.2023	Bhagalpur	Champanalla -1	6.6	145	250	264	50000	7.2	25	75	60	1300
20	06.06.2023	Bhagalpur	Champa Nalla -2	6.9	125	381	235	50000	7.1	24	67	58	1700
21	06.06.2023	Bhagalpur	Surkhikal Drain	7.4	115	331	198	50000	7.1	23	70	59	1700
22	06.06.2023	Bhagalpur	Saklichand Drain	7.4	130	316	213	28000	6.9	22	70	59	1400
23	06.06.2023	Bhagalpur	Koyal Ghat	7.1	125	316	275	28000	7.3	25	75	59	1400
24	06.06.2023	Bhagalpur	Hathiya Nalla, Near Tilkamanjhi	6.8	130	342	274	50000	7.1	24	73	57	1700
25	06.06.2023	Munger	Lal Darwaja Drain	7.4	125	331	265	35000	7.1	23	84	66	1400
26	07.06.2023	Phulwarisarif	Issopurrai Chowk Nalla	6.6	145	381	266	28000	7	19	70	57	1300

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(Prof. Anshuman Singh)

Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in June 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd. a Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
27	07.06.2023	Phulwarisarif	Birla Colony Nalla A	7.2	125	331	254	28000	7.3	24	79	69	1100
28	07.06.2023	Phulwarisarif	Birla Colony Nalla B	7.2	120	374	263	35000	7.3	23	66	59	1100
29	07.06.2023	Maner	Maner Bazar Nalla	7.2	120	316	264	35000	7.2	21	68	59	1700
30	07.06.2023	Maner	Ram Nagina Singh College Nalla	7.3	125	323	235	50000	7.4	27	81	52	1400
31	07.06.2023	Maner	Ram Ghat Nalla	6.9	135	326	298	35000	7.5	23	61	68	2100
32	07.06.2023	Fatuha	Maksudpur Nalla (East)	6.7	120	323	237	35000	7.2	27	81	51	1700
33	07.06.2023	Fatuha	Maksudpur Nalla (West)	7.3	115	347	268	35000	7.3	26	70	52	1700
34	07.06.2023	Fatuha	Kataiya Ghat	7.2	120	323	277	35000	7.3	21	71	68	1400
35	07.06.2023	Fatuha	Mastana Ghat	7.3	115	347	276	50000	7.2	27	71	68	1400
36	07.06.2023	Fatuha	Bankipur Ghorkak Nalla	7.2	130	302	275	35000	7.4	21	72	54	2100
37	12.06.2023	Patna	Mandiri (Bans Ghat Nalla)	7.1	125	373	274	35000	7.5	27	63	67	1700
38	12.06.2023	Patna	Badshahi Nala	7.1	115	323	265	35000	7.2	25	70	67	1700
39	12.06.2023	Patna	Kurji Drain	6.9	115	295	297	50000	7.4	21	72	55	1400
40	12.06.2023	Buxar	Tadka Nalla	6.9	115	326	234	35000	7.3	21	69	61	2100
41	12.06.2023	Buxar	Sati Ghat	7.4	110	287	256	35000	7.2	23	64	54	1700
42	12.06.2023	Buxar	Bangla Ghat Nalla	7.4	120	316	234	35000	7.2	25	84	69	1700
43	12.06.2023	Buxar	Sidhnath Drain	7.5	125	372	200	35000	7.3	24	79	55	1700
44	12.06.2023	Buxar	Saripur Drain	6.9	130	319	198	35000	7.2	21	79	56	1400
45	12.06.2023	Buxar	Nath Baba Drain	6.9	125	316	197	50000	7.1	23	56	54	2100
46	13.06.2023	Bhabhua	Akhlashpur Drain Bhabhua Nagar Parisad, Bhabhua	7.5	130	310	195	35000	7.1	21	72	57	1700
47	13.06.2023	Bhabhua	Asthbhuji Chowk Drain, Bhabhua	7	125	308	245	50000	7	26	67	71	1400
48	13.06.2023	Bhabhua	Purva Pokhra Drain, Bhabhua	6.8	115	313	264	50000	7.1	22	69	67	1700
49	13.06.2023	Bhabhua	Drain Near Hanuman Mandir at Suara River, Bhabhua	7.1	115	329	245	35000	7.1	24	68	71	1400
50	13.06.2023	Bikramganj	Bikramganj kashighat drain, Bikramganj	7.2	115	323	245	35000	7	28	69	56	2100

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Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in June 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd JV Sai Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
51	13.06.2023	Bikramganj	Bikramganj thana chowk drain, Bikramganj	6.9	120	326	269	35000	7.1	25	80	63	2100
52	13.06.2023	Nasriganj	Nasriganj urdu vidyalaya Drain	7.1	115	287	289	35000	7.3	24	76	42	1400
53	13.06.2023	Nokha	NokhaDafartola drain	7.3	125	326	231	35000	7.2	23	81	54	1400
54	13.06.2023	Arah	Sant Hospital bypass Road drain	6.9	120	323	245	28000	7.6	28	75	57	1300
55	13.06.2023	Nabinagar	Sangam Studio Drain, Nabinagar	7.1	120	326	223	24000	7.4	24	69	45	1400
56	14.06.2023	Bikram	Ashpura Drain	7.3	125	331	245	35000	7.2	24	75	52	1400
57	14.06.2023	Arwal	Malhi Patti Drain	6.9	105	323	231	35000	7.5	24	69	51	1700
58	14.06.2023	Arwal	Burhwa Mahadev Drain	7.3	140	342	236	50000	7.1	27	74	54	1700
59	14.06.2023	Arwal	Baidrabad English Drain	7.2	145	331	231	35000	7.1	24	74	47	1700
60	14.06.2023	Arwal	Dr. Hiralal Galli Drain	6.9	125	381	245	50000	7.1	23	71	50	2100
61	14.06.2023	Bodhgaya	Pachhati Bridge Drain, Bodh Gaya	7.2	125	331	275	35000	7.2	20	55	51	1400
62	14.06.2023	Serghati	KhaterMoree Drain, Serghati, Gaya	7.2	130	321	277	28000	7.3	21	84	49	1700
63	14.06.2023	Jehanabad	Algna Drain, Jehanabad	6.9	140	344	276	35000	7.3	27	79	49	1700
64	14.06.2023	Jehanabad	Daulatpur Drain, Jehanabad	6.9	125	326	284	35000	7.1	23	72	49	1700
65	14.06.2023	Jehanabad	Raja Bazar Drain, Jehanabad	6.9	115	326	269	50000	7	27	70	56	2100
66	14.06.2023	Islampur	Drain of Maharanapratap Nagar, Islampur	6.9	135	373	275	35000	7.3	25	81	59	2100
67	19.06.2023	Patna	Mandiri (Bans Ghat Nalla)	6.8	125	323	263	35000	7.3	23	61	70	1700
68	19.06.2023	Patna	Badshahi Nala	7.3	135	295	251	30000	7.1	21	81	59	1400
69	19.06.2023	Patna	Kurji Drain	7.2	120	347	236	35000	7.1	27	70	52	2100
70	19.06.2023	Jamui	Polytechnic college drain	7.3	125	329	229	50000	7.2	23	64	58	1400
71	19.06.2023	Barh	Dhobiya Ghat, Laxmi Flour Mill	7.2	115	352	297	35000	7.3	25	70	56	1400
72	19.06.2023	Barh	Gaurishankar Ghat	7.4	125	326	245	30000	7.3	21	81	57	1700
73	19.06.2023	Barh	Talimpur Nalla	7.3	120	302	264	28000	7.5	20	70	54	1100
74	19.06.2023	Mokama	Chaudhry Ghat, Pipaltal	7.1	125	359	245	35000	7.2	21	64	58	1300

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Results of wastewater analysis of samples collected at inlet and outlet of 85 drains in June 2023 (M/s JM Infra and Enviro Technologies Pvt Ltd JV Sai Ashirwad Constructions Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
75	19.06.2023	Lakhisarai	MahaveerAsthan, Purani Bazar drain	7.1	120	369	245	50000	7.2	20	55	52	1100
76	19.06.2023	Lakhisarai	BadhiDargah drain	6.9	130	323	236	35000	7.3	19	53	55	2100
77	20.06.2023	Jhajha	Ganeshi Mandir Drain	7.1	125	326	234	30000	7.1	27	69	59	1700
78	20.06.2023	Jhajha	Charghara Drain	6.8	115	287	213	28000	7.1	25	70	52	1700
79	20.06.2023	Barahiya	Krishn Chawk Nalla	6.9	125	321	264	35000	7.5	26	68	68	1700
80	20.06.2023	Barahiya	Baba Danimohalla Nalla	7.4	120	323	254	50000	7.1	25	68	68	1400
81	20.06.2023	Barahiya	Bangalkunj Taal Nalla	7.3	135	323	256	50000	7.3	23	68	67	2100
82	20.06.2023	Barahiya	Bah Path Nalla	7.3	115	316	245	35000	7	22	73	58	1700
83	21.06.2023	Amarpur	Ajiyar Drain, Amarpur	7.2	125	323	231	50000	7.2	27	78	68	1400
84	21.06.2023	Banka	Gandhi Chowk Drain, Naya Tola, Banka	7.2	125	326	245	35000	7.6	24	68	58	1700
85	21.06.2023	Banka	Vijay Nagar Drain-1, Banka	7.4	135	279	231	28000	7.3	25	70	68	1400
86	21.06.2023	Banka	Vijay Nagar Drain-2, Banka	6.9	120	316	236	35000	7.1	24	81	62	1400
87	21.06.2023	Kahalgaon	Korwa Nala	7.1	125	324	231	28000	7.1	25	70	57	1700
88	21.06.2023	Kahalgaon	Kaggi Nala	7.2	120	329	245	35000	7.1	25	77	59	1700
89	21.06.2023	Sultanganj	Vishari Asthan Ghat Nalla (1st)	7.3	130	352	231	50000	7	27	72	64	2100
90	21.06.2023	Sultanganj	Krishngarh Bhattagali Nalla	7.1	130	326	245	35000	7.1	26	66	63	1400
91	21.06.2023	Sultanganj	New Sidhi Ghat Nalla	7.1	125	302	235	50000	7.2	21	68	63	1700
92	26.06.2023	Patna	Mandiri (Bans Ghat Nalla)	7.4	145	326	245	35000	7.5	19	70	63	2100
93	26.06.2023	Patna	Badshahi Nala	6.8	125	347	223	35000	7.3	21	69	61	1700
94	26.06.2023	Patna	Kurji Drain	6.9	125	329	236	35000	7.2	23	75	61	1700
95	26.06.2023	Patna	Krishna Ghat Nalla	6.7	120	352	245	35000	7.2	24	79	64	2100
96	26.06.2023	Patna	Anta Ghat Nalla	6.8	125	326	231	50000	7.1	26	72	63	1400
97	26.06.2023	Patna	Mitan Ghat drain	7.1	125	302	233	28000	7.2	27	77	67	1400
98	27.06.2023	Bhagalpur	DN Singh Drain	6.9	130	326	235	35000	7.1	24	72	63	1700
99	27.06.2023	Bhagalpur	Champanalla -I	6.8	125	302	235	35000	7.1	23	66	70	1700

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Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in June 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
1	05.06.2023	Patna	Digha Drain	6.9	125	326	258	35000	7.6	28	65	65	1700
2	05.06.2023	Hajipur	Subhash Chowk Nalla	6.7	120	287	302	35000	7.5	28	69	52	1700
3	05.06.2023	Dighwara	Bagahing Tola	7.2	110	326	305	30000	7.3	27	74	51	1400
4	05.06.2023	Dighwara	Marchav Baba Mandir	6.7	120	321	245	35000	7.2	28	68	54	1400
5	05.06.2023	Dighwara	Umv Nalla	7.1	125	323	263	50000	7.2	25	63	54	1400
6	05.06.2023	Dighwara	Post Office Road	6.9	120	323	264	35000	7.3	26	68	58	1400
7	05.06.2023	Dighwara	Market Area	6.9	130	326	245	35000	7.2	29	57	56	1700
8	05.06.2023	Dighwara	R. Primary School	6.9	130	273	236	35000	7.1	28	61	71	1700
9	05.06.2023	Dighwara	Barbana	7.2	130	316	234	28000	7.1	24	61	65	2100
10	05.06.2023	Dighwara	M.S Basadpur	7.1	145	339	213	24000	7.1	26	61	71	1400
11	06.06.2023	Kesariya	Chakiya Keshariya Road Bridge Drain, Keshariya	6.7	130	334	258	35000	7.3	29	72	56	2100
12	06.06.2023	Mahua	FCI Godown Drain, Mahua	6.7	125	311	302	50000	7.2	28	63	63	2100
13	06.06.2023	Mehsi	Data Mirja Halim Shah Mazar Drain, Mehshi	6.8	120	319	305	35000	7.1	27	71	69	1700
14	06.06.2023	Siwan	Near Shiv Mandir Drain, Siwan	6.8	120	324	245	28000	7.2	26	71	62	1700
15	06.06.2023	Siwan	ShivwaratSahMandir Drain, Siwan	6.8	120	300	236	28000	7.1	23	71	54	1400
16	06.06.2023	Siwan	Navalpur Drain, Siwan	6.9	125	311	275	35000	7.2	20	72	66	1400
17	06.06.2023	Siwan	KhurmabadTakiya Drain, Siwan	6.8	130	326	277	50000	7.3	27	63	88	1700
18	06.06.2023	Jogbani	Islampur Drain	7.2	145	331	276	35000	7.2	28	72	62	2100
19	06.06.2023	Mairwa	Infront of Mahavir Sewa SansthanDrain,Mairwa	6.9	120	287	284	50000	7.1	28	71	64	2100
20	06.06.2023	Raxaul	Drain at Chhatriya ghat	7.2	110	321	269	35000	7.1	27	62	59	2100
21	06.06.2023	Raxaul	Drain at Custom check post bridge	6.9	105	311	250	35000	7.5	16	63	57	1700
22	06.06.2023	Raxaul	Drain At Naga Road	6.7	125	323	254	24000	7.3	21	75	66	1400
23	06.06.2023	Raxaul	Dayachak Nala	6.7	130	326	263	35000	7.2	24	66	67	2100
24	06.06.2023	Ramnagar	Mukhya Bazar Near Fish Market	7.1	130	331	264	50000	7.1	23	75	54	1700
25	06.06.2023	Ramnagar	Chatiya Ghat Drain (West)	7.1	145	323	235	35000	7.1	24	75	71	1700

28/07/2023
(N. S. Maurya)

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National Institute of Technology Patna-5

28/7/23
(Prof. Anshuman Singh)

Results of wastewater analysis of samples collected [illegible] 2191

Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in June 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
26	06.06.2023	Ramnagar	Chatiya Ghat Drain (East)	7.1	125	342	298	30000	7.2	24	69	66	1400
27	06.06.2023	Ramnagar	Mill Quarter Drain	7.1	120	331	237	35000	7.3	22	70	58	1300
28	06.06.2023	Narkatiaganj	Near Power grid of sugar mill	6.7	125	381	268	50000	7.3	29	74	66	1700
29	06.06.2023	Narkatiaganj	Dhoom Nagar Mandir drain	6.9	125	331	277	35000	7.2	28	79	65	1300
30	06.06.2023	Motihari	Cold Storage Drain	6.7	130	316	276	30000	7.1	25	79	51	1400
31	06.06.2023	Motihari	Madhuban chowk drain	6.7	130	323	275	35000	7.6	24	63	57	1300
32	06.06.2023	Motihari	Chatwani Colony Drain, Near DDC Res.	6.9	145	326	274	50000	7.3	25	63	51	1500
33	06.06.2023	Motihari	Sugar Mill Drain	7.1	130	323	265	50000	7.3	22	62	47	1400
34	06.06.2023	Areraj	Balmiki Asthan Drain, Areraj, Motihari	6.8	125	381	264	35000	7.4	27	64	58	1400
35	06.06.2023	Areraj	Markanday Chock Drain, Areraj, Motihari	7.2	120	331	245	35000	7.6	26	69	51	1400
36	12.06.2023	Patna	Digha Drain	6.8	125	316	236	50000	7.5	29	68	50	1700
37	12.06.2023	Jamalpur	Ramnagar Nalla	7.2	125	323	236	35000	7.2	28	69	50	1700
38	12.06.2023	Jamalpur	Laxmipur Nalla	6.8	125	326	234	50000	7.1	26	70	49	2100
39	12.06.2023	Jamalpur	Aashikpur Nalla	7.2	135	323	213	28000	7.3	27	69	47	1400
40	12.06.2023	Jamalpur	Faridapur Nalla	6.9	140	347	264	50000	7.2	24	75	58	1700
41	12.06.2023	Kahagariya	P.W High School Nalla	6.9	125	331	245	28000	7.1	26	79	54	2100
42	12.06.2023	Navgachhiya	New Basti Nalla	7.1	110	373	236	35000	7.1	28	75	54	2100
43	12.06.2023	Navgachhiya	Maa Tara Bhawan Nalla	6.9	135	323	231	35000	7.2	23	75	58	2100
44	12.06.2023	Navgachhiya	Ward No.-08 Nalla	6.7	125	287	245	35000	7.3	21	61	57	1700
45	12.06.2023	Navgachhiya	Station Road Nalla (1)	7.1	130	316	245	35000	7.5	21	65	66	1600
46	12.06.2023	Navgachhiya	Station Road Nalla (2)	7.2	120	323	264	35000	7.2	20	63	58	1300
47	12.06.2023	Navgachhiya	Durgaasthan Nalla	6.9	115	326	245	28000	7.4	21	65	47	1100
48	12.06.2023	Navgachhiya	Ward No.-03 Nalla	7.2	120	323	245	35000	7.5	20	73	50	1100
49	12.06.2023	Navgachhiya	Milan Chawk Nalla	6.8	130	347	236	50000	7.2	25	70	50	1300
50	12.06.2023	Navgachhiya	Ward No.-09 Nalla	6.9	115	323	231	35000	7.5	26	71	47	1700

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National Institute of Technology Patna-5

...ysis of samples collected at inlet and outlet of 82 d...

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Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in June 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
51	12.06.2023	Navgachhiya	Noniyapatti, Ward No.-20 Nalla	7.2	125	323	245	35000	7.2	27	68	52	1700
52	12.06.2023	Navgachhiya	Musharpatti, Ward No.-13 Nalla	6.9	125	326	236	35000	7.1	26	68	62	1400
53	12.06.2023	Navgachhiya	Rajendra Colony, Ward No.-05 Nalla	7.1	125	287	231	28000	7.2	26	80	58	1400
54	12.06.2023	Navgachhiya	Nagar Panchyat Karyalaya Ke Bagal Me Ward No.-16	6.8	125	326	236	24000	7.1	25	70	58	1700
55	12.06.2023	Navgachhiya	Hardiyapatti, Ward No.-21 Nalla	7.2	110	323	269	35000	7.1	20	68	55	2100
56	12.06.2023	Simri Bakhtiyarpur	Ranihat , CHowdhery tola basti, near 107 NH (Simri Bakhtiyar, Saharsha)	7.2	120	311	258	35000	7.2	19	71	55	1700
57	19.06.2023	Patna	Digha Drain	7.1	120	314	302	50000	7.1	24	72	49	1700
58	19.06.2023	Manihari	Pirpatra Nalla	6.8	120	326	305	35000	7.5	23	71	63	2100
59	19.06.2023	Manihari	Primari Health School Nalla	6.9	125	342	245	35000	7.2	28	76	50	2100
60	19.06.2023	Jogbani	Haji Mohalla Drain	7.2	125	373	264	30000	7.2	26	73	56	2100
61	19.06.2023	Jogbani	Khajur Bari Drain	6.7	110	323	258	35000	7.2	21	78	58	1400
62	19.06.2023	Jogbani	Idgah Chawk	6.9	125	295	302	50000	7.5	28	71	58	1400
63	19.06.2023	Kishanganj	TegariaMadhav Nagar Meat Market drain, Kishanganj	7.3	125	347	305	35000	7.3	25	67	52	1300
64	19.06.2023	Kishanganj	Pilkhana Road drain, Kishanganj	6.8	125	329	245	30000	7.2	28	68	52	1400
65	19.06.2023	Kishanganj	Khankha drain, Kishanganj	7.2	130	352	269	35000	7.1	23	66	50	1400
66	19.06.2023	Kishanganj	DharamganjMajhia drain, Kishanganj	7.1	130	326	258	50000	7.4	28	63	51	1700
67	19.06.2023	Gopalganj	Sri Ram Nagar Drain	7.3	145	302	266	50000	7.1	27	63	59	1300
68	26.06.2023	Patna	Digha Drain	6.9	125	326	245	35000	7.3	28	62	59	1400
69	26.06.2023	Samastipur	Kabristan Drain, Near Bus stand, Dumra Road, Sitamarhi	6.9	120	302	236	35000	7.2	26	64	57	1300
70	26.06.2023	Samastipur	ChakMaila Drain, Rajopatti	7.2	95	321	234	50000	7.1	28	66	66	1400
71	26.06.2023	Dumra	Main Drain, Dumra,Near Treasury Bridge	6.8	95	311	258	35000	7.1	26	63	67	2100

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National Institute of Technology Patna-5

Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in June 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
72	26.06.2023	Dhaka, West Champaran	Chainpur Dhaka Drain, Dhaka	7.2	120	314	302	50000	7.3	24	71	64	2000
73	26.06.2023	Belsand	Mestartola drain, Belsand	6.9	115	276	305	28000	7.3	25	70	54	1700
74	26.06.2023	Belsand	Babar kigali drain, Belsand .-	7.2	120	314	245	50000	7.5	28	71	66	2100
75	26.06.2023	Belsand	Main road to Chandeshwarsingh residence drain, Belsand	7.2	120	311	264	28000	7.2	23	72	55	1400
76	26.06.2023	Samastipur	Jamuari River Pool (Mohanpur) Drain	7.1	120	314	245	35000	7.1	26	68	54	1700
77	26.06.2023	Samastipur	BhramasthanGali drain, Rajopatti, Sitamarhi	7.1	125	319	236	35000	7.3	21	66	56	1400
78	26.06.2023	Darbhanga	Balu Ghat Drain,	6.9	110	329	234	35000	7.6	24	75	59	1700
79	26.06.2023	Darbhanga	Gayatri Mandir Ghat Drain,	6.9	120	319	213	28000	7.2	23	75	57	1700
80	26.06.2023	Dalsingh Sarai	BadiGudri Drain, Dalsingh Sarai, Samastipur	7.2	120	367	264	35000	7.1	24	75	66	1400
81	26.06.2023	Dalsingh Sarai	BadiThakurwari Drain, Dalsingh Sarai, Samastipur	6.8	120	319	245	28000	7.2	23	55	65	1700
82	26.06.2023	Dalsingh Sarai	Dhobi Ghat Drain, Dalsingh Sarai, Samastipur	6.9	125	289	236	5000	7.3	26	71	61	2100
83	27.06.2023	Benipur	Primary school aashapur drain	7.2	115	250	231	35000	7.1	21	74	66	2100
84	27.06.2023	Teghra	Teghra Chowk	7.2	125	240	236	35000	7.2	24	68	59	2100
85	27.06.2023	Teghra	Mukhtar Maidan Drain	6.6	125	314	231	50000	7.1	22	63	57	1500
86	27.06.2023	Jamalpur	Ramnagar Nalla	6.9	125	316	245	28000	7.3	23	68	66	1400
87	27.06.2023	Jamalpur	Laxmipur Nalla	6.7	120	287	264	35000	7.2	20	63	72	1300
88	27.06.2023	Jamalpur	Faridapur Nalla	6.9	125	321	245	35000	7.2	21	73	50	1400
89	27.06.2023	Kahagariya	P.W High School Nalla	6.9	145	323	245	30000	7.3	20	74	50	1400
90	27.06.2023	Ramnagar	Mill Quarter Drain	6.7	130	323	268	35000	7.4	23	75	56	1400
91	27.06.2023	Raxaul	Drain at Chhatriya ghat	6.8	130	323	269	35000	7.6	20	74	58	1300
92	27.06.2023	Raxaul	Drain At Naga Road	7.1	125	326	258	28000	7.2	21	80	58	1100

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National Institute of Technology Patna-5

Results of wastewater analysis of samples collected at inlet and outlet of 82 drains in June 2023 (M/s Organic121 Scientific Pvt Ltd JV Shree Nestbuild Infra Pvt Ltd.)

S.No	Date	ULB Name	Name of Drain	Inlet					Outlet				
				pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml	pH	BOD (in mg/l)	COD (in mg/l)	TSS (in mg/l)	Fecal Coliform (FC) MPN/100 ml
93	27.06.2023	Ramnagar	Mukhya Bazar Near Fish Market	7.2	125	287	302	50000	7.3	22	80	58	1100
94	27.06.2023	Siwan	Near Shiv Mandir Drain, Siwan	6.8	130	321	305	35000	7.2	21	86	63	1700
95	27.06.2023	Siwan	ShivwaratSahMandir Drain, Siwan	6.9	125	323	245	50000	7.3	28	68	64	1400
96	27.06.2023	Siwan	Navalpur Drain, Siwan	6.7	120	323	264	28000	7.4	27	62	63	2100

Forwarded

28/7/23

नोडल अधिकारी/Nodal Officer
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27/07/2023

28/7/23

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National Institute of Technology Patna-5

ANNEXURE - II

PRAGYAN TESTING LABORATORY

NABL Accredited ISO 9001 : 2015 ISO 14001 : 2015 ISO : 45001:2018 MSME Registered

TC-8785

TEST REPORT

UI No.	PTL23110905	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTL0502	Test Report Issue Date	13/11/2023
Name and Address of Customer	VA Tech Wabag Limited, Bihar; Address: C/o Bihar Urban Infrastructure Development Corporation Ltd, 60 MLD Sewerage Treatment Plant, Pahari, Patna City, Patna - 800007, Bihar		
Name of the Project	STP Pahari		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.38	5.5-9.0	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	2.6	<10	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	24	<50	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	16	<20	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	9.2	<10	IS 3025 (Part 34):1988 (RA 2019)
6	Phosphate, *mg/l*	0.68	<1.0	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY PATNA

Checked by
Quality Manager

Authorized signatory
Technical Manager

Important Notes:
1. Total liability of our laboratory is limited to the invoiced amount only. 2. The results apply only to tested samples and applicable parameters. The customer requested for the above test parameters only. 3. Endorsement of products is neither inferred nor implied. 4. Sample would not be preserved after issue of test report unless otherwise specified. 5. Test Report can not to be reproduced fully or in part and cannot be used as evidence in the court of law & should not to be used in any advertising media without any written permission. 6. In case of any dispute, it would be subject to Patna Jurisdiction only. 7. BDL - Below Detection Limit.

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TEST REPORT

UI No.	PTL23110905	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTLI0502	Test Report Issue Date	13/11/2023
Name and Address of Customer	VA Tech Wabag Limited, Bihar; ADDRESS: C/o Bihar Urban Infrastructure Development Corporation Ltd, 60 MLD Sewerage Treatment Plant, Pahari, Patna City, Patna - 800007, Bihar		
Name of the Project	STP Pahari		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	Fecal Coliform (MPN / 100 ml)	90	Desirable/Permissible: 100/230	IS 1622:1981 (RA 2009)

End of Report

PRAGYAN TESTING LABORATORY PATNA

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Quality Manager

Authorized signatory
Technical Manager

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TC-4758

TEST REPORT

UI No.	PTL23110905	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTL0501	Test Report Issue Date	13/11/2023
Name and Address of Customer	VA Tech Wabag Limited, Bihar; Address: C/o Bihar Urban Infrastructure Development Corporation Ltd, 60 MLD Sewerage Treatment Plant, Pahari, Patna City, Patna - 800007, Bihar		
Name of the Project	STP Pahari		
Name of Authority/Client	BUIDCo		
Customer Ref. No., If any	N/A		
Sample Description	Influent Sample (Raw Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.40	7.0-7.5	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	23	180-250	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	136	325-400	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	36	300-400	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	36	40-60	IS 3025 (Part 34):1988 (RA 2019)
6	Ammoniacal Nitrogen, *mg/l*	11	27-37	IS 3025 (Part 34):1988 (RA 2019)
7	Phosphate, *mg/l*	6.89	05-08	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY PATNA

Checked by
Quality Manager

Authorized signatory
Technical Manager

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TC-9788

TEST REPORT

UI No.	PTL23110903	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTL0302	Test Report Issue Date	13/11/2023
Name and Address of Customer	Toshiba Water Solutions, Bihar; Address: A/3, P C Colony, RBI Flats Colony, Bankman Colony, P. C. Colony Road, Patna - 800020, Bihar		
Name of the Project	STP Barh		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.38	5.5-9.0	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	5.9	<10	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	16	<50	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	7	<20	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	9.6	<10	IS 3025 (Part 34):1988 (RA 2019)
6	Phosphate, *mg/l*	0.61	<1.0	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY PATNA

Checked by
Quality Manager

Authorized signatory
Technical Manager

Important Notes:
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TEST REPORT

UI No.	PTL23110902	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTLI0201	Test Report Issue Date	13/11/2023
Name and Address of Customer	Toshiba Water Solutions, Bihar; ADDRESS: A/3, P C Colony, RBI Flats Colony, Bankman Colony, P C Colony Road, Patna - 800020, Bihar		
Name of the Project	STP Saidpur		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	Fecal Coliform (MPN / 100 ml)	132	Desirable/Permissible: 100/230	IS 1622:1981 (RA 2009)

End of Report

PRAGYAN TESTING LABORATORY PATNA

Checked by
Quality Manager

Authorized signatory
Technical Manager

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Mob.: 9958377851, 9999332490 | e-mail : ptlpatnacity@gmail.com

PRAGYAN TESTING LABORATORY
NABL Accredited ISO 9001:2015 ISO 14001:2015 ISO:45001:2018 MSME Registered
TC-8788

TEST REPORT

UI No.	PTL23110901	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTL0102	Test Report Issue Date	13/11/2023
Name and Address of Customer	Toshiba Water Solutions, Bihar; Address: A/3, P C Colony, RBI Flats Colony, Bankman Colony, P C Colony Road, Patna - 800020, Bihar		
Name of the Project	STP Saidpur		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.33	5.5-9.0	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	6.5	<10	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	24	<50	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	12	<20	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	8	<10	IS 3025 (Part 34):1988 (RA 2019)
6	Phosphate, *mg/l*	0.79	<1.0	IS 3025 (Part 31):1988 (RA 2019)

End of Report

Checked by
Quality Manager

PRAGYAN TESTING LABORATORY ★ PATNA

Authorized signatory
Technical Manager

Important Notes:
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PRAGYAN TESTING LABORATORY
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TC-8786

TEST REPORT

UI No.	PTL23110902	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTL0201	Test Report Issue Date	13/11/2023
Name and Address of Customer	Toshiba Water Solutions, Bihar; Address: A/3, P C Colony, RBI Flats Colony, Bankman Colony, P C Colony Road, Patna - 800020, Bihar		
Name of the Project	STP Saidpur		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Influent Sample (Raw Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.37	7.0-7.5	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	75	180-250	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	144	325-400	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	36	300-400	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	14	40-60	IS 3025 (Part 34):1988 (RA 2019)
6	Ammoniacal Nitrogen, *mg/l*	5.1	27-37	IS 3025 (Part 34):1988 (RA 2019)
7	Phosphate, *mg/l*	4.5	05-08	IS 3025 (Part 31):1988 (RA 2019)

End of Report

Checked by
Quality Manager

PRAGYAN TESTING LABORATORY PATNA

Authorized signatory
Technical Manager

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TEST REPORT

UI No.	PTL23111101	Sample Receiving Date	11/11/2023
Analysis Start Date	11/11/2023	Analysis End Date	16/11/2023
Test Report No.	23111117PTL0102	Test Report Issue Date	17/11/2023
Name and Address of Customer	V.C. Project (JV)		
Name of the Project	10 MLD STP and I & D, Sultanganj Block Campus, Sultanganj, Bhagalpur, Bihar, PIN - 813213		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.4	5.5-9.0	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (5 days at 20 °C), *mg/l*	6.7	<10	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	38	<50	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	12	<20	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	8.2	<10	IS 3025 (Part 34):1988 (RA 2019)
6	Phosphate, *mg/l*	0.6	<1.0	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY PATNA

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Quality Manager

Authorized Signatory
Technical Manager

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PRAGYAN TESTING LABORATORY

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TEST REPORT

UI No.	PTLI23111101	Sample Receiving Date	11/11/2023
Analysis Start Date	11/11/2023	Analysis End Date	16/11/2023
Test Report No.	2311117PTLI0102	Test Report Issue Date	17/11/2023
Name and Address of Customer	V.C. Project (JV)		
Name of the Project	10 MLD STP and I & D, Sultanganj Block Campus, Sultanganj, Bhagalpur, Bihar, PIN - 813213		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	Fecal Coliform (MPN/100 ml)	120	Desirable/Permissible:100/230	IS1622:1981(RA2009)

End of Report

PRAGYAN TESTING LABORATORY PATNA

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Quality Manager

Authorized Signatory
Technical Manager

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TC-6786

TEST REPORT

UI No.	PTL23110904	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTL0402	Test Report Issue Date	13/11/2023
Name and Address of Customer	Universal MEP Projects & Engineering Services Limited; Address: 306/A, 3rd Floor, Maharaja Kameshwar Complex, C/o Voltas Limited, Frazer Road, Patna		
Name of the Project	STP Karmalichak		
Name of Authority/Client	BUIDCo		
Customer Ref. No., If any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.29	5.5-9.0	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	4.5	<10	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	38	<50	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	14	<20	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	4.1	<10	IS 3025 (Part 34):1988 (RA 2019)
6	Phosphate, *mg/l*	0.79	<1.0	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY PATNA

Checked by
Quality Manager

Authorized signatory
Technical Manager

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PRAGYAN TESTING LABORATORY 389
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TEST REPORT

UI No.	PTL23110904	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTLI0402	Test Report Issue Date	13/11/2023
Name and Address of Customer	Universal MEP Projects & Engineering Services Limited; ADDRESS: 306/A, 3rd Floor, Maharaja Kameshwar Complex, C/o Voltas Limited, Frazer Road, Patna		
Name of the Project	STP Karmalichak		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	Fecal Coliform (MPN / 100 ml)	89	Desirable/Permissible: 100/230	IS 1622:1981 (RA 2009)

End of Report

Checked by
Quality Manager

PRAGYAN TESTING LABORATORY PATNA

Authorized signatory
Technical Manager

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TEST REPORT

UI No.	PTL23110901	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTL0102	Test Report Issue Date	13/11/2023
Name and Address of Customer	Universal MEP Projects & Engineering Services Limited; Address: 306/A, 3rd Floor, Maharaja Kameshwar Complex, C/o Voltas Limited, Frazer Road, Patna		
Name of the Project	STP Beur		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.47	5.5-9.0	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	8	<10	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	24	<50	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	10	<20	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	6.2	<10	IS 3025 (Part 34):1988 (RA 2019)
6	Phosphate, *mg/l*	0.79	<1.0	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY PATNA

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Quality Manager

Authorized signatory
Technical Manager

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TEST REPORT

UI No.	PTL23111001	Sample Receiving Date	10/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23111013PTL10102	Test Report Issue Date	13/11/2023
Name and Address of Customer	Universal MEP Projects & Engineering Services Limited; ADDRESS: 306/A, 3rd Floor, Maharaja Kameshwar Complex, C/o Voltas Limited, Frazer Road, Patna		
Name of the Project	STP Beur		
Name of Authority/Client	BUIDCo		
Customer Ref. No., If any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	Fecal Coliform (MPN / 100 ml)	92	Desirable/Permissible: 100/230	IS 1622:1981 (RA 2009)

End of Report

PRAGYAN TESTING LABORATORY ★ PATNA

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Quality Manager

Authorized signatory
Technical Manager

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TEST REPORT

UI No.	PTL23111101	Sample Receiving Date	11/11/2023
Analysis Start Date	11/11/2023	Analysis End Date	16/11/2023
Test Report No.	23111117PTL0101	Test Report Issue Date	17/11/2023
Name and Address of Customer	V.C. Project (JV)		
Name of the Project	10 MLD STP and I & D, Sultanganj Block Campus, Sultanganj, Bhagalpur, Bihar, PIN - 813213		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Influent Sample (Raw Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.10	7.0-7.5	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (5 days at 20°C), *mg/l*	95	180-250	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	188	325-400	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	110	300-400	IS 3025(part 17):1984 (RA 2017)
5	VSS (Volatile Suspended Solids), *mg/l*	62	225-300	IS 3025(part 17):1984 (RA 2017)
6	Total Nitrogen, *mg/l*	18	40-60	IS 3025 (Part 34):1988 (RA 2019)
7	Ammoniacal Nitrogen, *mg/l*	8.6	27-37	IS 3025 (Part 34):1988 (RA 2019)
8	Phosphate, *mg/l*	4.3	05-08	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY PATNA

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Technical Manager

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TEST REPORT

UI No.	PTL23110904	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTL0401	Test Report Issue Date	13/11/2023
Name and Address of Customer	Universal MEP Projects & Engineering Services Limited; Address: 306/A, 3rd Floor, Maharaja Rameshwar Complex, C/o Voltas Limited, Frazer Road, Patna		
Name of the Project	STP Karmalichak		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Influent Sample (Raw Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.1	7.0-7.5	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	8.6	180-250	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	102	325-400	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	26	300-400	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	13.2	40-60	IS 3025 (Part 34):1988 (RA 2019)
6	Ammoniacal Nitrogen, *mg/l*	3.8	27-37	IS 3025 (Part 34):1988 (RA 2019)
7	Phosphate, *mg/l*	4.8	05-08	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY PATNA

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Technical Manager

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PRAGYAN TESTING LABORATORY

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TEST REPORT

UI No.	PTL23110901	Sample Receiving Date	09/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23110913PTL0101	Test Report Issue Date	13/11/2023
Name and Address of Customer	Universal MEP Projects & Engineering Services Limited; Address: 306/A, 3rd Floor, Maharaja Kameshwar Complex, C/o Voltas Limited, Frazer Road, Patna		
Name of the Project	STP Beur		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Influent Sample (Raw Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.35	7.0-7.5	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	64	180-250	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	172	325-400	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	92	300-400	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	32.7	40-60	IS 3025 (Part 34):1988 (RA 2019)
6	Ammoniacal Nitrogen, *mg/l*	19.6	27-37	IS 3025 (Part 34):1988 (RA 2019)
7	Phosphate, *mg/l*	5.16	05-08	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY ★ PATNA

Checked by
Quality Manager

Authorized signatory
Technical Manager

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PRAGYAN TESTING LABORATORY

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TEST REPORT

UI No.	PTL23111001	Sample Receiving Date	10/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23111013PTL0101	Test Report Issue Date	13/11/2023
Name and Address of Customer	S G Constructions; Address: Ground Floor, H/o Chandrika Chowdhary, Birla Colony, Dagar, Phulwari Sharif, Patna, Bihar, PIN - 801505		
Name of the Project	STP Sonepur		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Influent Sample (Raw Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	pH Value	7.45	7.0-7.5	IS 3025 (Part 11):1983 (RA 2017)
2	BOD (Biological Oxygen Demand), (3 days at 27 °C), *mg/l*	2	180-250	IS 3025 (Part 44):1993 (RA 2019)
3	COD (Chemical Oxygen Demand), *mg/l*	24	325-400	IS 3025 (Part 58):2006 (RA 2017)
4	TSS (Total Suspended Solid), *mg/l*	6	300-400	IS 3025(part 17):1984 (RA 2017)
5	Total Nitrogen, *mg/l*	18	40-60	IS 3025 (Part 34):1988 (RA 2019)
6	Ammoniacal Nitrogen, *mg/l*	3.5	27-37	IS 3025 (Part 34):1988 (RA 2019)
7	Phosphate, *mg/l*	1.53	05-08	IS 3025 (Part 31):1988 (RA 2019)

End of Report

PRAGYAN TESTING LABORATORY PATNA

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Technical Manager

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PRAGYAN TESTING LABORATORY

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TEST REPORT

UI No.	PTL23111001	Sample Receiving Date	10/11/2023
Analysis Start Date	10/11/2023	Analysis End Date	13/11/2023
Test Report No.	23111013PTLI0102	Test Report Issue Date	13/11/2023
Name and Address of Customer	S G Constructions; Address: Ground Floor, H/o Chandrika Chowdhary, Birla Colony, Dagar, Phulwari Sharif, Patna, Bihar, PIN - 801505		
Name of the Project	STP Sonpur		
Name of Authority/Client	BUIDCo		
Customer Ref. No., if any	N/A		
Sample Description	Effluent Sample (Treated Sewage)		

S. No.	Test Parameter	Result	Requirement	Test Method
1	Fecal Coliform (MPN / 100 ml)	122	Desirable/Permissible: 100/230	IS 1622:1981 (RA 2009)

End of Report

PRAGYAN TESTING LABORATORY ★ PATNA

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Quality Manager

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Technical Manager

Important Notes:
1. Total liability of our laboratory is limited to the invoiced amount only. 2. The results apply only to tested samples and applicable parameters. The customer requested for the above test parameters only. 3. Endorsement of products is neither inferred nor implied. 4. Sample would not be preserved after issue of test report unless otherwise specified. 5. Test Report can not to be reproduced fully or in part and cannot be used as evidence in the court of law & should not to be used in any advertising media without any written permission. 6. In case of any dispute, it would be subject to Patna Jurisdiction only. 7. BDL - Below Detection Limit.