GOVERNMENT OF INDIA

MINISTRY OF JAL SHAKTI

DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION

LOK SABHA

UNSTARRED QUESTION NO.1649

ANSWERED ON 01.08.2024

POLLUTION IN RIVER GANGA

†1649. SHRI MURARI LAL MEENA DR. MOHAMMAD JAWED

SHRI SUKHDEO BHAGAT SHRI KARTI P CHIDAMBARAM

Will the Minister of **JAL SHAKTI** be pleased to state:

(a) the details of pollution level (inorganic, organic, heavy metals etc.) in Ganga river since 2019;

(b) the total number of projects sanctioned under Namami Gange programme since 2019 till date along with the number of projects completed, State-wise;

(c) the details of the allocated budget and expenditure, project-wise;

(d) whether any impact analysis of Namami Gange programme has been conducted so far; and

(e) if so, the details thereof and if not, the reasons therefor?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI RAJ BHUSHAN CHOUDHARY**)**

(a) The water quality of river Ganga is being monitored by the Central Pollution Control Board (CPCB) in 5 main stem States through concerned State Pollution Control Boards (SPCBs) namely Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal.

The state-wise data range of Physical parameters and Organic parameters included in notified primary water quality criteria for bathing water by CPCB is enclosed in **Annexure-I**. State-wise data relating to Inorganic parameters and Heavy Metals for 2019, 2021 and 2022 is enclosed in **Annexure II.**

(b) Under the Namami Gange Programme, a total of 222 new projects have been sanctioned for the rejuvenation of the river Ganga and its tributaries since January 2019 and 191 projects have been completed during this period, enclosed in **Annexure-III.**

(c) The details of the project-wise allocated budget and expenditure are enclosed in **Annexure-IV**.

(d) & (e) The Administrative Staff College of India (ASCI) was engaged as Third Party Agency (TPA) for appraisal of Namami Gange Mission (NGM). ASCI observed in its report that the NGM has led to considerable addition to wastewater treatment infrastructure in Ganga river basin balanced with investments in river front and Ghat development, river surface cleaning processes, afforestation, biodiversity, organic agriculture, etc. Capacity building of implementing agencies and other stakeholders, along with community engagement to support the initiatives, are the other key contributions of the projects. The decentralization and

mainstreaming of program tasks within the basin states and local body establishments have been the hallmark of the program. ASCI in its appraisal stated that, NGM has shown good progress in achievement of its mandate of continuous flow (Aviral Dhara) and unpolluted flow (Nirmal Dhara). It has demonstrated successful and replicable models for implementing a large-scale river rejuvenation program on a mission mode and gained global recognition.

Central Pollution Control Board (CPCB) has carried out water quality monitoring of river Ganga. As per the report, the polluted river stretches (PRSs) on river Ganga based on the assessment carried out in 2022 (2019 & 2021 data) are as under:

a. Uttarakhand does not fall under polluted stretch (BOD <3mg/l);
b. In Uttar Pradesh, Farrukhabad to Allahabad &Mirzapur to Ghazipur in - *Priority Class V* (BOD 3-6 mg/l);
c. In Bihar, along Buxar, Patna, Fatwah and Bhagalpur - *Priority Class IV* (BOD 6-10 mg/l);
d. Jharkhand does not fall under polluted stretch (BOD <3mg/l);
e. In West Bengal, Behrampur to Haldia - *Priority Class IV* (BOD 6-10 mg/l).

Further, the value of Dissolved oxygen, which is an indicator of river health, has been found to be within acceptable limits of notified primary bathing water quality criteria and satisfactory to support the ecosystem of river for almost entire stretch of river Ganga.

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1649 TO BE ANSWERED IN LOK SABHA ON 01.08.2024 REGARDING "POLLUTION IN RIVER GANGA".

The State-wise, year-wise details of Physical and Organic parameters included in notified primary water quality criteria for bathing water by CPCB

State	Parameters		Standard Value	2019		2021		2022	
				Min	Max	Min	Max	Min	Max
Uttarakhand	**Physical parameters**	pH	6.5 to 8.5	7.1	8.4	6.4	8.4	7	8.6
		Dissolved Oxygen	≥ 5mg/l	8.6	11.8	8	11	6.2	11
	Organic parameters	Biochemical Oxygen Demand	≤ 3mg/l	1	2	1	2.6	1	2.8
Uttar Pradesh	**Physical parameters**	pH	6.5 to 8.5	6.5	8.7	6.5	8.5	6.4	8.7
		Dissolved Oxygen	≥ 5mg/l	4.6	12.2	5	12	4.1	11.6
	Organic parameters	Biochemical Oxygen Demand	≤ 3mg/l	0.5	5.8	1	5.3	1	6.9
Bihar	**Physical parameters**	pH	6.5 to 8.5	6.6	8.8	6.6	8.6	6.9	8.7
		Dissolved Oxygen	≥ 5mg/l	5.6	9.8	3.7	12.8	5	13.4
	Organic parameters	Biochemical Oxygen Demand	≤ 3mg/l	1.1	2.9	1	7.9	1	3.2
Jharkhand	**Physical parameters**	pH	6.5 to 8.5	7.6	8.6	7.4	7.8	7.4	7.6
		Dissolved Oxygen	≥ 5mg/l	7.8	8.6	6.4	7.8	6.6	7.3
	Organic parameters	Biochemical Oxygen Demand	≤ 3mg/l	2.2	2.8	1.2	2.4	1.1	1.6
West Bengal	**Physical parameters**	pH	6.5 to 8.5	6.7	8.9	6.4	8.6	6.8	8.6
		Dissolved Oxygen	≥ 5mg/l	3.5	11.5	3.2	9.9	4.8	9.4
	Organic parameters	Biochemical Oxygen Demand	≤ 3mg/l	0.4	8	1.1	4.7	1	4.9

Note: All parameters are expressed in mg/l except, pH.

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1649 TO BE ANSWERED IN LOK SABHA ON 01.08.2024 REGARDING "POLLUTION IN RIVER GANGA".

The State-wise, year-wise details of Inorganic &Heavy metals data of Ganga main stem States

State	Parameters		2019		2021		2022	
			Min	Max	Min	Max	Min	Max
Uttarakhand	Inorganic parameters	Chloride	4	19	BDL	20	BDL	56
		Ammonical-N	NA		NA			
		Calcium	34	98	18	210	BDL	280
		Magnesium	16	44	5	90	6	124
		Sulphate	NA		10	140.2	10.1	81
		Fluoride	NA		BDL	2.4	BDL	1.1
	Heavy metals	Arsenic	NA		NA		BDL	
		Cadmium					BDl	0.3
		Copper					BDL	
		Lead					BDL	
		Chromium					BDL	0.4
		Nickel					BDL	
		Zinc					BDL	
		Mercury					BDL	
		Iron					BDL	4.8
Uttar Pradesh	Inorganic parameters	Chloride	3.8	64	6	3100	8	80
		Ammonical-N	0.02	1.9	BDL	1.08	BDL	0.8
		Calcium	20	156	14	332	12	654
		Magnesium	8.3	96	9.7	183	12.6	434
		Sulphate	8.2	58	BDL	170	BDL	230
		Fluoride	0.02	2.8	BDL	1.07	BDL	28
	Heavy metals	Arsenic	0.02		NA		BDL	
		Cadmium	BDL	0.3	NA		BDL	
		Copper	BDL	0.8	BDL		BDL	
		Lead	BDL	0.2	0.04		BDL	
		Chromium	BDL	0.09	BDL		BDL	
		Nickel	0.03	0.2	NA		BDL	
		Zinc	0.03	0.6	0.01		BDL	
		Mercury	0.005	0.05	NA			
		Iron	0.1	12.5	NA		0.1	1.9
Bihar	Inorganic parameters	Chloride	7	63	9	108	BDL	121
		Ammonical-N	0.01	2.1	BDL	5.6	BDL	9.5
		Calcium	2.4	74	9	100	11.2	61.7
		Magnesium	1.5	87	4.8	55.3	4.4	53.9
		Sulphate	2.3	122	BDL	98.4	BDL	4385
		Fluoride	0.01	0.9	BDL	1	BDL	0.9

State	Parameters		2019		2021		2022	
			Min	Max	Min	Max	Min	Max
	Heavy metals	Arsenic	NA					
		Cadmium						
		Copper						
		Lead						
		Chromium						
		Nickel						
		Zinc						
		Mercury						
		Iron						
Jharkhand	Inorganic parameters	Chloride	NA					
		Ammonical-N						
		Calcium						
		Magnesium						
		Sulphate						
		Fluoride						
	Heavy metals	Arsenic						
		Cadmium						
		Copper						
		Lead						
		Chromium						
		Nickel						
		Zinc						
		Mercury						
		Iron						
West Bengal	Inorganic parameters	Chloride	4.8	6555	BDL	2321	BDL	18859
		Ammonical-N	BDL	2.1	BDL	1.6	BDL	1.1
		Calcium	4	184	12	244	BDL	46
		Magnesium	1.8	382	BDL	131	BDL	25
		Sulphate	4.6	552	8.2	1134	10.3	652
		Fluoride	0.1	0.6	BDL	1.06	BDL	0.5
	Heavy metals	Arsenic	BDL		BDL		BDL	0.01
		Cadmium	BDL		BDL		BDL	
		Copper	BDL	28.5	BDL		BDL	
		Lead	BDL		BDL	0.06	BDL	0.02
		Chromium	BDL		BDL		BDL	
		Nickel	BDL		BDL		BDL	
		Zinc	BDL	84	BDL	0.19	BDL	0.2
		Mercury	BDL		BDL		BDL	
		Iron	BDL	62	BDL	11.4	0.1	7.9

Note: 1. BDL-Below Detection Limit, NA-Not analysed

2. All parameters are expressed in mg/l

ANNEXURE-III

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1649 TO BE ANSWERED IN LOK SABHA ON 01.08.2024 REGARDING "POLLUTION IN RIVER GANGA".

The details of state-wise total number of projects sanctioned and completed under Namami Gange Programme since January 2019 to till June 2024 are as follows:

Sl. No.	**State/Others**	**January 2019 - Till June 2024**	
		Total No. of Projects Sanctioned	**No. of Projects Completed***
A. Sewage Infrastructure Projects:			
1	Uttarakhand	10	18
2	Uttar Pradesh.	33	31
3	Bihar	15	15
4	Jharkhand	3	2
5	West Bengal	17	11
6	Haryana	0	0
7	Delhi	0	8
8	Himachal Pradesh	0	1
9	Rajasthan	0	0
10	Madhya Pradesh	3	0
	Sub Total	**81**	**86**
B.	Common Effluent Treatment Plant, River Front Development, Institutional Development, Research & Study, Biodiversity, Afforestation, etc.	141	105
	Total	**222**	**191**

*These completed projects also include projects sanctioned before 2019.

ANNEXURE-IV

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1649 TO BE ANSWERED IN LOK SABHA ON 01.08.2024 REGARDING "POLLUTION IN RIVER GANGA".

The details of the project-wise allocated budget and expenditure

S.No.	Type of Project	Total Sanctioned Cost (Rs. in Crore.)	Expenditure/ Released* (Rs. in Crore.)
1	Sewerage Infrastructure Projects	32,070	15,001.01
2	Ghats & Crematoria	1,808.59	1,257.60
3	Solid-Waste Management	295.26	192.65
4	Institutional Development (Non - Infrastructure)	1614.89	523.77
5	Project Implementation Support/Research & Study Projects/Public Relations and Public Outreach	320.47	113.69
6	Biodiversity	338.63	110.50
7	Afforestation	537.33	374.24
8	Composite Ecological Task Force & Ganga Mitra	335.04	195.89
9	Bioremediation	338.39	38.08
10	Construction of Individual household latrine (IHHL) across Gram Panchayats near Ganga River	1,421.26	1,020.44
	Grand Total	**39,080**	**18,827.87**

*The amount includes state share also.

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