GOVERNMENT OF INDIA

MINISTRY OF JAL SHAKTI

DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION

LOK SABHA

UNSTARRED QUESTION NO. 1463

ANSWERED ON 13.02.2025

LEVEL OF POLLUTION IN GANGA

†1463. SHRI IMRAN MASOOD

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

(a) the level of pollution (inorganic, organic and heavy metals etc.) found in the Ganga River since 2017;

(b) the total number of projects sanctioned and completed so far under the Namami Gange programme since 2017, State-wise;

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

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

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

(f) the details and current status of the projects going on in Saharanpur district, Uttar Pradesh under the Namami Gange programme, project-wise?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI RAJ BHUSHAN CHOUDHARY**)**

(a) The water quality of river Ganga is being monitored by 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.

State-wise data range of Physical parameters and Organic parameter, 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 from 2017 to 2024 is enclosed in **Annexure-II**.

(b) Under the Namami Gange Programme, a total of 349 numbers of projects have been sanctioned for the rejuvenation of the river Ganga and its tributaries since January 2017 and 268 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 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.

(f) In Saharanpur district of Uttar Pradesh, NMCG has considered following two sewage infrastructure projects:

Sl.No.	**Town**	**Name of the project**	**Sanctioned cost (Rs. in crore)**	**Capacity (in MLD)**	**Status**
1	Saharanpur	Interception & Diversion (I&D) and Sewage Treatment Plant works	**577.23**	**135**	**Sanctioned**
2	Deoband,	I&D and STP works	**134.71**	**20**	**Sanctioned**

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1463 TO BE ANSWERED IN LOK SABHA ON 13.02.2025 REGARDING "LEVEL OF POLLUTION IN 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		2017		2018		2019		2021		2022		2023	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Uttarakhand	**Physical parameters**	pH	6.8	8.2	7	8.4	7.1	8.4	6.6	8.4	6.4	8.4	7	8.6
		Dissolved Oxygen	6.4	10.6	8.2	10.6	8.6	11.8	8	12.8	8	11	6.2	11
	Organic parameters	Biochemical Oxygen Demand	1	6.6	1	1.2	1	2	0.4	4	1	2.6	1	2.8
Uttar Pradesh	**Physical parameters**	pH	6.3	8.8	6.1	8.7	6.5	8.7	6.7	8.8	6.5	8.5	6.4	8.7
		Dissolved Oxygen	5	11.3	2.8	11.6	4.6	12.2	5.6	12.5	5	12	4.1	11.6
	Organic parameters	Biochemical Oxygen Demand	1.2	6.4	0.9	8.5	0.5	5.8	BDL	9.8	1	5.3	1	6.9
Bihar	**Physical parameters**	pH	6.4	8.8	6.3	8.7	6.6	8.8	6.8	8.9	6.6	8.6	6.9	8.7
		Dissolved Oxygen	4.6	7.8	2	14.1	5.6	9.8	4.3	11.1	3.7	12.8	5	13.4
	Organic parameters	Biochemical Oxygen Demand	0.5	4.2	1.4	5	1.1	2.9	1.1	6.7	1	7.9	1	3.2
Jharkhand	**Physical parameters**	pH	7.2	8	7.6	8.5	7.6	8.6	7	8.5	7.4	7.8	7.4	7.6
		Dissolved Oxygen	7.4	9	7.6	8.9	7.8	8.6	7.6	10.5	6.4	7.8	6.6	7.3
	Organic parameters	Biochemical Oxygen Demand	2.6	2.7	2.2	2.8	2.2	2.8	1.4	2.8	1.2	2.4	1.1	1.6
West Bengal	**Physical parameters**	pH	6.3	8.4	6.5	9.2	6.7	8.9	6.1	8.8	6.4	8.6	6.8	8.6
		Dissolved Oxygen	3.6	9.9	3.1	11.2	3.5	11.5	3.7	12.5	3.2	9.9	4.8	9.4
	Organic parameters	Biochemical Oxygen Demand	0.7	7.2	0.7	10.1	0.4	8	BDL	7.7	1.1	4.7	1	4.9

Note: 1. BDL-Below Detection Limit

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1463 TO BE ANSWERED IN LOK SABHA ON 13.02.2025 REGARDING "LEVEL OF POLLUTION IN GANGA".

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

State	Parameters		2017		2018		2019		2021		2022		2023	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Uttarakhand	Inorganic parameters	Chloride	5	18	4	10	4	19	BDL	20	BDL	56	BDL	22
		Ammoniacal-N	BDL		BDL		NA		NA					
		Calcium	12	188	11	72	34	98	18	210	BDL	280	9	226
		Magnesium	5	76	3	48	16	44	5	90	6	124	BDL	152
		Sulphate	NA		NA		NA		10	140.2	10.1	81	10.3	85.9
		Fluoride	NA		BDL				BDL	2.4	BDL	1.1	BDL	0.9
	Heavy metals	Arsenic	NA		NA				NA		BDL		BDL	
		Cadmium	NA		BDL						BDL	0.3	BDL	
		Copper	BDL		BDL						BDL		BDL	0.4
		Lead	BDL		BDL						BDL		BDL	
		Chromium	BDL	0.04	BDL	0.02					BDL	0.4	BDL	
		Nickel	BDL	0.04	BDL						BDL		BDL	
		Zinc	BDL	0.08	BDL	0.06					BDL		BDL	0.5
		Mercury	BDL		BDL						BDL		BDL	
		Iron	0.4	10.4	0.04	6.3					BDL	4.8	0.2	4.1
Uttar Pradesh	Inorganic parameters	Chloride	0	59	3.9	65	3.8	64	6	3100	8	80	8	67
		Ammoniacal-N	0.02	26	0.02	2.3	0.02	1.9	BDL	1.08	BDL	0.8	BDL	0.7
		Calcium	52	148	10	158	20	156	14	332	12	654	16	150
		Magnesium	6	112	8	146	8.3	96	9.7	183	12.6	434	8.2	82
		Sulphate	0.2	38.4	7.2	58	8.2	58	BDL	170	BDL	230	BDL	42
		Fluoride	0.01	38	0.02	0.8	0.02	2.8	BDL	1.07	BDL	28	BDL	0.8
	Heavy metals	Arsenic	BDL	0.01	NA		0.02		NA		BDL		BDL	
		Cadmium	NA		NA		BDL	0.3	NA		BDL		BDL	
		Copper	BDL	0.23	0.06	0.1	BDL	0.8	BDL		BDL		BDL	
		Lead	BDL		NA		BDL	0.2	0.04		BDL		BDL	0.06
		Chromium	BDL	0.06	0.05		BDL	0.09	BDL		BDL		BDL	0.1

State	Parameters		2017		2018		2019		2021		2022		2023	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
		Nickel	BDL	0.26	NA		0.03	0.2	NA		BDL		BDL	
		Zinc	0.02	0.3	0.1	0.2	0.03	0.6	0.01		BDL		BDL	
		Mercury	NA		NA		0.005	0.05	NA				BDL	0.004
		Iron	0.12	6	0.1	0.2	0.1	12.5	NA		0.1	1.9	BDL	1.7
Bihar	Inorganic parameters	Chloride	5	60	7	74	7	63	9	108	BDL	121	BDL	247
		Ammoniacal-N			0.01	4.2	0.01	2.1	BDL	5.6	BDL	9.5	BDL	8.4
		Calcium	5.6	80	6.4	83.3	2.4	74	9	100	11.2	61.7	16.8	97.7
		Magnesium	0.4	54	1.8	71	1.5	87	4.8	55.3	4.4	53.9	8.3	66
		Sulphate	5.8	33	6.4	52	2.3	122	BDL	98.4	BDL	4385	12	98.6
		Fluoride	0.06	0.5	0.01	1.2	0.01	0.9	BDL	1	BDL	0.9	BDL	0.8
	Heavy metals	Arsenic	Not analysed											
		Cadmium												
		Copper												
		Lead												
		Chromium												
		Nickel												
		Zinc												
		Mercury												
		Iron												
Jharkhand	Inorganic parameters	Chloride	Not analysed											
		Ammoniacal-N												
		Calcium												
		Magnesium												
		Sulphate												
		Fluoride												
	Heavy metals	Arsenic												
		Cadmium												
		Copper												
		Lead												
		Chromium												
		Nickel												
		Zinc												

State	Parameters		2017		2018		2019		2021		2022		2023	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
		Mercury												
		Iron												
West Bengal	Inorganic parameters	Chloride	3.6	1699	4.3	1399	4.8	6555	BDL	2321	BDL	18859	BDL	5846
		Ammoniacal-N	BDL	0.8	0.01	1.2	BDL	2.1	BDL	1.6	BDL	1.1	BDL	1.5
		Calcium	21	116	20	96	4	184	12	244	BDL	46	29	56
		Magnesium	4.3	68	4	48	1.8	382	BDL	131	BDL	25	5.8	25.2
		Sulphate	7	240	7.2	293	4.6	552	8.2	1134	10.3	652	9.5	934
		Fluoride	0.1	0.5	0.1	0.5	0.1	0.6	BDL	1.06	BDL	0.5	BDL	0.5
	Heavy metals	Arsenic	BDL	0.003	BDL		BDL		BDL		BDL	0.01	BDL	0.08
		Cadmium	BDL		BDL		BDL		BDL		BDL		BDL	
		Copper	BDL	0.36	BDL	25	BDL	28.5	BDL		BDL		BDL	
		Lead	BDL	0.03	BDL		BDL		BDL	0.06	BDL	0.02	BDL	0.01
		Chromium	BDL		NA		BDL		BDL		BDL		BDL	0.12
		Nickel	BDL	0.03	BDL		BDL		BDL		BDL		BDL	0.19
		Zinc	BDL	1.02	BDL	216.5	BDL	84	BDL	0.19	BDL	0.2	BDL	0.2
		Mercury	BDL		BDL		BDL		BDL		BDL		BDL	
		Iron	BDL	5.5	BDL	10.7	BDL	62	BDL	11.4	0.1	7.9	0.08	11.3

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. 1463 TO BE ANSWERED IN LOK SABHA ON 13.02.2025 REGARDING "LEVEL OF POLLUTION IN GANGA".

The details of state-wise total number of projects sanctioned and completed under Namami Gange Programme since January 2017 to till December 2024 are given below:

Sl.No.	State/Others	January2017 - TillDecember2024	
		Total No. of Projects Sanctioned	No. of Projects Completed*
A. Sewage Infrastructure Projects:			
1	Uttarakhand	19	28
2	Uttar Pradesh.	55	42
3	Bihar	24	18
4	Jharkhand	3	2
5	West Bengal	23	14
6	Haryana	0	2
7	Delhi	8	8
8	Himachal Pradesh	1	1
9	Rajasthan	1	0
10	Madhya Pradesh	3	0
	Sub Total	**137**	**115**
B.	Common Effluent Treatment Plant, River Front Development, Institutional Development, Research & Study, Bio-diversity, Afforestation, etc.	212	153
	Total	**349**	**268**

ANNEXURE-IV

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1463 TO BE ANSWERED IN LOK SABHA ON 13.02.2025 REGARDING "LEVEL OF POLLUTION IN GANGA".

Details of the project-wise allocated budget and expenditure

SI. No.	Project-wise/Component-Wise	Total Sanctioned (Rs. In Crore)	Expenditure* (Rs. In Crore) as on December 2024
1.	Sewerage Infrastructure	32,613	15,547
2.	Bioremediation	395	40
3.	Ghats and Crematoria	1,811	1,267
4.	Solid Waste Management	1,468	1,182
5.	Industrial Effluent Treatment/Surveillance & Monitoring/R&D Projects	1,762	562
6.	Ecological Projects	951	503
7.	Livelihood Projects	46	19
8.	Public Outreach Projects	427	217
9.	Knowledge Projects	257	63
Total		**39,730**	**19,400**

*The amount includes state share also.

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