



JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004
Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref. No. B-813

Ranchi, Dated 22/06/2020

From,

Rajiv Lochan Bakshi
Member Secretary

To,

The Executive Director (Technical)
River Development and Ganga rejuvenation,
National Mission for Clean Ganga, New Delhi

Sub: -Regarding submission of monthly progress report for Seven polluted river stretches of Jharkhand.

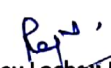
Sir,

With reference to the above noted subject stated above, the monthly progress report for **Seven polluted river stretches of Jharkhand have been prepared in light of Hon'ble NGT order dated 29.09.2019 in O.A. No. 673/2018.** The copy of the monthly progress report is enclosed herewith for your kind perusal and necessary action.

Thanking You

Encl. A/a

Yours Sincerely


[Rajiv Lochan Bakshi]
Member Secretary



Format for State wise review of compliance to Hon'ble NGT Directions for Control of River Pollution

1. Name of State/ UT : Jharkhand
2. No of identified Polluted River Stretches P-I to P-V : P-IV :Garga, Sankh and Subarnarekha
P-V: Damodar, Konar, Jumar and Nalkari

3. Water Quality

A. i. Polluted River Stretch (Range in Year 2019): Konar

BOD (mg/l)	Min	1.1
	Max	2.5
Fecal Coliform (MPN/100ml)	Min	
	Max	

In absence of FC, TC may be given

ii. Polluted River Stretch (Range in Year 2019) :

Damodar

BOD (mg/l)	Min	2.1
	Max	2.6
Fecal Coliform (MPN/100ml)	Min	
	Max	

In absence of FC, TC may be given

iii. Polluted River Stretch (Range in Year 2019) : Garga

BOD (mg/l)	Min	4.3
	Max	4.8
Fecal Coliform (MPN/100ml)	Min	
	Max	

In absence of FC, TC may be given

iv. Polluted River Stretch (Range in Year 2019) : Nalkari

BOD (mg/l)	Min	1.7
	Max	3.6
Fecal Coliform (MPN/100ml)	Min	
	Max	

In absence of FC, TC may be given

v. Polluted River Stretch (Range in Year 2019) : Konar

BOD (mg/l)	Min	2.6
	Max	3.6
Fecal Coliform (MPN/100ml)	Min	
	Max	

In absence of FC, TC may be given

vi. Polluted River Stretch (Range in Year 2019) : Sankh

BOD (mg/l)	Min	1.9
	Max	2.5
Fecal Coliform (MPN/100ml)	Min	
	Max	

In absence of FC, TC may be given

vi. Polluted River Stretch (Range in Year 2019) :

Subarnarekha

BOD (mg/l)	Min	0.6
	Max	8
Fecal Coliform (MPN/100ml)	Min	
	Max	

In absence of FC, TC may be given

- B.** Has the State identified all pollution contributing drains : Yes
If yes, please provide details in table 1
- 4.** Action plan addressing the gaps
- A.** Gap assessment in sewage treatment completed : Yes
If yes, please provide details in table 2
- B.** Gap assessment for industrial pollution completed : Yes
If yes, please provide details in table 3
- C.** Solid waste management addressed : Yes
If yes, please provide details in table 4
- D.** Other Wastes : Yes
If yes, please provide details in table 5
- 5.** Measures taken for
- A.** Control of Illegal Ground Water Abstraction : Yes
- B.** River catchment/ Basin Management : Yes
- C.** Flood Plain Zone Protection : Yes
- D.** E Flow maintenance & Watershed Management : Yes
- E.** Ground water recharge/ Rain water harvesting : Yes
- F.** Setting up of Biodiversity Parks, Greenery/ plantation along the banks of river stretch : Yes
- G.** Removal of encroachments : Yes
- 6.** Progress in line with target dates of March 2021 : Yes

Table 1: Details of drains contributing to pollution in polluted river stretches (River Stretch-wise)

Name of the Polluted River Stretch	Drain	Type Domestic/ industrial/ mixed	Quantity (MLD)	BOD (mg/l)*	Total Coliform (MPN/100ml)*
GARGA	Chas Municipal Corporation : 7 nos. of drains	Domestic	28.2 mld	65-188 mg/l	150-350
SUBARNAREKHA	202 MLD (Ranchi Municipal Corporation –Piped outfall – 6 nos. Tributaries and Nallahs- 6 nos., AdityapurMunicipal Corporation –6	Domestic	202 MLD (Ranchi Municipal Corporation – 45 MLD , Adityapur Municipal Corporation	Ranchi- 80-240 mg/l Adityapur- NA Jamshedpur- 31-372 mg/lt.	Ranchi- NA Adityapur- NA Jamshedpur- 94-542 Mango - NA

	nos., Jamshedpur NAC – 7 Nos., Mango Municipal Corporation-5 Nos.)		– 34 MLD, Jamshedpur NAC -80 MLD, Mango Municipal Corporation-43 MLD)	Mango – NA	
DAMODAR	Phusro Nagar Parisahd: 4 nos. of nallas	Domestic	15 MLD	BOD varies from 20-64 mg/l	Less than 1
JUMAR	Ranchi Municipal Corporation: 1 no. of nalla having negligible discharge	Domestic		NA	NA

* As per the test conducted on Nov. 2014 by M/s TCE, DPR report for Chas, Jamshedpur, sewage Scheme.

* As per the Effluent testing report from inlet and outlet of STP at March 2019, of Harmu River Project

*As per the test conducted on March 2020 by LEA Associates SA Pvt. Ltd. ESDDR report of Phusro I&D Scheme

Note:-In absence of FC, TC may be given

Table 2: Polluted River Stretch-wise Details for sewage management (in MLD)

Name of the Polluted River Stretch	Sewage Generated	Processed/ Treated at present (Nos and capacities)	Gap	Proposed Treatment Facilities (Nos and capacities)	Proposed Time Lines for compliance
GARGA	Chas Municipal Corporation : 28.2 MLD	No existing STP available	28.2 MLD	STP of 29 MLD capacity required. Treatment technology will be decided based upon the site condition	At Present, under AMRUT Scheme, Septage Management scheme of Chas in which septage treatment plant of 89 KLD is under construction and expected to be completed by June 2021

SUBARNAREKH A	202 MLD (Ranchi Municipal Corporation – 45 MLD , Adityapur Municipal Corporation – 34 MLD, Jamshedpur NAC -80 MLD, Mango Municipal Corporation- 43 MLD)	10 MLD of nature based STP is operational at Harmu River i.e. one of the Tributary of Subarnarekh a River at Ranchi	192 ML D	STP of 45 MLD, 80 MLD and 43 MLD capacity required respectively at Ranchi, Jamshedpur and Mango. STP of 34 MLD capacity is under construction at Adityapur with SBR Treatment technology under AMRUT Scheme.	Adityapur Municipal Corporation sewage scheme is under construction in which total 34 MLD capacity of STP is under construction and the timeline for completion is by May- 21
DAMODAR	Phusro Nagar Parisahd: 15 MLD	No existing STP available	15 ML D	STP of 15 MLD capacity required with SBR Technology	National Mission for Clean Ganga (NMCG) New Delhi in Principle agreed for Rs 61 Crore Only for I&D of 4 nos of drains drains and STP of 15 MLD With 15 Years of O&M. Final Approval is under process.
JUMAR	Ranchi Municipal Corporation: 37 MLD	No existing STP available	37 ML D	37 MLD capacity STP construction work was under progress for Zone-1 (in which River Jumar falls) with SBR Technology. And till date	The work for Ranchi Sewage scwage scheme for zone 1 was under construction but due to poor performance

				approx. 40 % of work completed.	of contractor the agreement was terminated and Tender for the construction of remaining work has been floated by the RMC.
Total	282 MLD		272 ML D	7 Nos. of STP Proposed/under construction at Adityapur, phusro, Ranchi	

Table 3: Polluted River Stretch-wise Details for industrial effluent management (in MLD)

Name of the Polluted River Stretch	No. of water polluting industries	Industrial Effluent Generated	Processed/ Treated at present (Nos and capacities)	Gap	Proposed Industrial Treatment Facilities (Type, Nos and Capacities)	Proposed Time Lines for compliance
GARGA	3 (Red Cat - 03nos.)		E.T.P. Installed & Adequate	-	-	-
SANKH	No Industries Present	-	-	-	-	-
SUBARNAREKHA	24 (Red Cat – 07 nos./ Orange Cat – 17 nos.)	-	E.T.P. Installed & Adequate	-	-	-
DAMODAR	Red Cat – 16	-	E.T.P. Installed & Adequate	-	-	-
JUMAR	3 nos.(Red Cat - 01 nos./ Orange Cat - 02 nos.)		E.T.P. Installed & Adequate			
KONAR	9 nos (Red Cat - 09 nos.)		E.T.P. Installed & Adequate			1. CETP have been installed by Auto Cluster Industrial Area. Effluent generated from the Industries of Adityapur Industrial Area to Auto Cluster for Treatment 2. Integrated Common Effluent Treatment Plant have been

						installed by M/s Tata Steel Ltd. For treatment and Recycling. 3. Test report is available on Board's Website
NALKARI	2 nos. are operative out of 5 nos. (Red Cat - 2 nos.)		E.T.P. Installed & Adequate			
Total						

Table 4: Polluted River Stretch-wise Details for MSW (in TPD)

Name of the Polluted River Stretch	MSW Generated	Processed/ Treated at present	Gap	Proposed Treatment Facilities (Type, Nos and Capacities)	Proposed Time Lines for compliance
GARGA	Chas Municipal Corporation: 47 TPD	36.8	10.2	Material recovery facility (MRF) for segregation of waste, Wet Waste: Windrow, Dry waste: recycled through recycler. Concessionaire has been selected. LOA has been issued to Concessionaire.	Sept- 2021
SUBARNAREKHA	1. Ranchi Municipal Corporation – 536 TPD, 2. Adityapur Municipal Corporation – 59.95 TPD, 3. Jamshedpur NAC -214 TPD, 4. Mango Municipal Corporation- 77.81 TPD	1. Ranchi Municipal Corporation –380 TPD, 2. Adityapur Municipal Corporation –40 TPD, 3. Jamshedpur NAC -54 TPD, 4. Mango Municipal Corporation- 55.6 TPD	1. Ranchi Municipal Corporation –156 TPD, 2. Adityapur Municipal Corporation – 19.95 TPD, 3. Jamshedpur NAC -160 TPD, 4. Mango Municipal Corporation- 22.21 TPD	Material recovery facility (MRF) for segregation of waste, Wet Waste: Windrow, Dry waste: recycled through recycler. Under Tendering Stage	Dec-2021
DAMODAR	Phusro Nagar Parisahd: 41.89 TPD	0	41.89 TPD	Material recovery facility (MRF) for segregation of waste, Wet Waste:	Feb-2022

				Windrow, Dry waste: recycled through recycler. Under Tendering Stage	
JUMAR	Ranchi Municipal Corporation: 536 TPD	380 TPD	156 TPD	Material recovery facility (MRF) for segregation of waste, Wet Waste: Windrow, Dry waste: recycled through recycler. Under Tendering Stage	Dec- 2021

Table 5: Details for other wastes (in TPD) (covering all the polluted river stretches)

Type of Waste	Generated	Processed/ Treated	Gap	Proposed Treatment Facilities (Type, Nos and Capacities)	Proposed Time Lines for compliance
BMW	12418.6 kg/day	5205 Kg/day	7213.6 kg/day	02 TSPF have been Proposed	
Plastic Waste	172.8 TPD	85.46 TPD	87.46 TPD	Under Tendering Stage	Dec-21