

National Mission for Clean Ganga
Format for submission of Monthly Progress Report in the NGT Matter OA
No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Jharkhand (Months of June'2023 - August' 2023)

Overall status of the State:

- I. Total Population: **Urban Population 58,25,413 (as per Census 2011)**
- II. Estimated Sewage Generation (MLD): **452 MLD**

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD):

S.No.	Location	No. of STP	Capacity in MLD	Total A
1	Ranchi	7	10 MLD	25.5 MLD
2	Sahibganj	2	12 MLD	
3	Rajmahal	1	3.5 MLD	
4	*Ranchi	3	4.8 MLD	98.24 MLD
5	*Jamshedpur	3	60 MLD	
6	*Bokaro	5	32.8 MLD	
7	*Dhanbad	14	0.64 MLD	
Total B		35	123.74 MLD	123.74 MLD

- Capacity Utilization of existing STPs: **74%** (Ranchi: 100%, Sahibganj: 63%, Rajmahal: 41%, *Jamshedpur: 80%, *Bokaro: 80%, *Dhanbad: 80%)
- MLD of sewage being treated through Alternate technology: **10 MLD**
- Gap in Treatment Capacity in MLD: **328.26 MLD**
- No. of Operational STPs: **35**
- No. of Complying STPs: **35**
- No. of Non-complying STPs: **0**

** As per JSPCB in the matter of Hon'ble NGT OA 673/2018.*

Details of each existing STPs/FSTPs/Septage in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
STPs					
1	Ranchi Municipal Corporation	10 MLD	100%	Yes	Yes
2	Sahibganj Nagar Parishad	12 MLD	63%	Yes	Yes
3	Rajmahal Nagar Panchayat	3.5 MLD	41%	Yes	Yes
FSTP					
4	*Bundu Nagar Panchayat	0.006 MLD	-	-	-
5	*Chirkunda Nagar Parishad	0.012 MLD	-	-	-
Septage					
6	*Giridih Municipal Corporation	0.052 MLD	-	-	-

* Plant is completed and under trial run.

Details of under construction STPs/FSTPs/Septage in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
STPs					
1	Adityapur MC	36 MLD	80%	-	February 2024
2	Ranchi MC	37 MLD	79%	-	September 2023
3	Ranchi Smart City Mission	16 MLD	98%	-	September 2023 <i>Ready for testing/Commissioning)</i>
4	Phusro NP	14 MLD	-	-	September 2025
5	Ramgarh NP	40 MLD	-	-	Under Tendering Process
6	Dhanbad MC	192 MLD	-	-	Under Tendering Process
FSTPs					
7	Gumla NP	0.008 MLD	90%	-	October 2023
8	Simdega NP	0.006 MLD	85%	-	October 2023
9	Chakuliya NP	0.006 MLD	05%	-	October 2024
Septage					
10	Deoghar MC	0.101 MLD	78%	-	October 2023
11	Hazaribagh MC	0.064 MLD	73%	-	October 2023

Note: MC-Municipal Corporation, NP-Nagar Parishad

Details of proposed STPs/FSTPs/Septage in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Ranchi	200 MLD	Inception report submitted/received for <i>“Ranchi Sewerage and Drainage (2006) including integration of existing/ongoing sewerage schemes (Ranchi Sewerage Zone- 1).”</i>	-
2	Mango	43 MLD	DPR under preparation. DPR will be finalized after finalization of funding agency.	-

IV. Details of Industrial Pollution: NA

- No. of water polluting industries in the State: **270**
- Quantity of effluent generated from the industries in MLD: 122.587 **MLD** and **Under Evaluation**
- Number of industrial units having ETPs: **171**
- Number of industrial units connected to CETP: **Primary treatment of effluent is being done by 97 units which is sent to final treatment in CETP, Gamharia, Saraikela Kharsawn**
- Number and total capacity of ETPs (details of existing/ under construction / proposed):
 - i. Existing - 171
 - ii. Under Construction: 02
- Compliance status of the ETPs: **Complied**
- Number and total capacity of CETPs (details of existing/ under construction / proposed):
 - i. ***Adityapur Auto Cluser – 1200 KLD (Existing)***
 - ii. ***Silk Park Irba Area – 0.5 KLD (Existing)***
 - iii. ***Tupudana Industrial Cluster- 3.5 MLD (Under Construction) almost 85% complete***

Status of compliance and operation of the ETPs & CETPs:

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Dhanbad Region	42	Under Evaluation	ETPs Complied – 42 nos.	
Jamshedpur Region	149	92.743 MLD	1. ETPs Complied -51 nos. 2. CETPs Complied - 97 nos. 3. ETP Under Construction- 01 nos.	Adityapur Auto Cluster, Gamharia, Saraikela Kharsawa – 1200 KLD
Ranchi Region	41	5500 KLD	ETPs Complied – 40 nos. ETP Under Construction- 01 nos.	Silk Park Irba – 0.5 KLD Tupudana Industrial Cluster – 3.5 MLD under construction
Hazaribagh Region	38	29.844 MLD	ETPs Complied – 38 nos.	

V. Solid Waste Management:

- Total number of Urban Local Bodies- **49** and their Population-58,25,413 (**as per Census 2011**)
- Current Municipal Solid Waste Generation- **2206 MTPD**
- Number, Installed Capacity and utilization of Existing MSW facilities;

S. No.	Type of processing	No. of facility/ULB	Installed Capacity	Utilization Capacity	Gap (%)
1	Waste to Energy (Tonnage-Power Output)	Decentralized- 01 ULB	0.5 MTPD	100%	Nil
2	Compost Plants	Windrow Vermi decentralized pit composting-42 ULBs	320 MTPD 589 MTPD	 93%	 7%
3	Bio-methanation	Setup-06 ULBs. Operational-02 ULB. Under Trial- 02 ULBs	337.58 MTPD 14.1 MTPD 14 MTPD	 85%	 15%

S. No.	Type of processing	No. of facility/ULB	Installed Capacity	Utilization Capacity	Gap (%)
		Under Installation/ Planned-02 ULBs.	309.48 MTPD		
4	MRF	42 ULBs	617 MTPD	90%	10%

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): **NA**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction): **3 nos. – Work awarded at Dhanbad, proposed at Ranchi (To be re-tendered), and Jamshedpur (DPR is under preparation).**
- Total no. of wards- **1053**, no. of wards having door to door collection service- **934**, no. of wards practicing segregation at source- **848**
- Details of MSW treatment facilities;

Existing MSW processing facilities in MTPD

Number	Capacity	Technology
8	385	Bio methanation & Windrow

Under construction MSW processing facilities in MTPD

Number	Capacity	Technology
10	1105	Windrow & Bio methanation

Proposed MSW processing facilities in MTPD

Number	Capacity	Technology
25	839	Windrow & Bio methanation

*A status report on SWM projects is enclosed as **Annexure-5**.*

- No. and area (in acres) of uncontrolled garbage dumpsites-**41** and Sanitary Landfills is under construction-**03**.
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers. **-Nil**
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers: **47** no of drains in **8 ULBs** identified in O.A.673/2018. (**Annexure-3**)

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in MTPD	Total MSW being processed in MTPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Total Proposed MSW Facilities & Completion Timeline
49	2206	1282	8	385 TPD	25 Nos, March 2024

VI. Bio-medical Waste Management: (Domestic) – As per Annual report 2020-21

- Total Bio-medical generation: 8316.7281 Kg/day
- No. of Hospitals and Health Care Facilities:
 - a. **Bedded: 1073**
 - b. **Non- Bedded:733**
- **Status of Treatment Facility/ CBWTF: Four CBWTF at Lohardaga, Ramgarh, Dhanbad & Dugni, Saraikela is functioning.**
- **Total Quantity of Bio-Medical Waste treated: 5893.79 Kg/day**
 - i. **Captive Facility: 1358.6 Kg/day**
 - ii. **CBWTF : 4535.19 Kg/day**
- **CBWTF Treatment Capacity:**
 - i. **M/s Bio-Genetic Laboratories Pvt. Ltd., Ramgarh: BMW Disposal Capacity- 600 Kg/day**
 - ii. **M/s Bio-Genetic Laboratories Pvt. Ltd., Dhanbad: Incineration of BMW- 25.2 TPM**
 - iii. **M/s Medicare Environment Management Pvt. Ltd., Lohardaga: Incineration of BMW- 200 Kg/hr**
 - iv. **Adityapur Waste Management Pvt. Ltd. (CBWTF) – 200 Kg/hr**

VII. Hazardous Waste Management: (Domestic) - As per Annual report 2020-21

- Total Hazardous Waste generation: 202813.83 MT/Yr.
- No. of Industries generating Hazardous waste: 550
- Treatment Capacity of all TSDFs:
 1. ***M/s Adityapur Waste Management Pvt. Ltd. located in Saraikela Kharsawan- Land Fill: 40000 MT/A and capacity of 500 kg/hr (Incineration)***
 2. ***Captive Facility Capacity***
 - i. ***WWR Div. Usha Martin Limited Ranchi- Landfill: 13500 X 2 MT/A***

- ii. *M/s Mangalum Lubricant Pvt. Ltd., Ranchi – Incineration: 960 MT/H*
- iii. *M/s Tin Plate Co. of India Ltd, Saraikela Kharsawan: Landfill: 753 MT/A*
- iv. *M/s Tata Motors Ltd, Jamshedpur, East Singhbhum- Incineration: 0.25 MT/H*
- v. *M/s. Bokaro Steel Ltd. B.S. City, Bokaro- Landfill: SLF Dimension 125 m X 30 m X 3 m*

3. **ACC Cement, Chaibasa for Co-processing – 23500 MT**

- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: Land fill – 25056.74 MT and Incineration - 839.199 MT.

1. ***M/s Adityapur Waste Management Pvt. Ltd., Dugni, Saraikela Kharsawan (HW disposed by the end of financial year) -SLF – 35363.5 MT/Yr and Incineration- 1258.8 MT/Yr.***

- Details of on-going or proposed TSDF: Nil
- Details of on-going or proposed TSDF: Nil

VIII. **Plastic Waste Management:**

- Total Plastic Waste generation: **43332 TPA**
- Treatment/ Measures adopted for reduction or management of plastic waste: **violations were registered, plastic carry bags were seized from traders and fine has been imposed on them; In Chas & Jamshedpur Road construction has been done by using plastic waste and reused by M/s ACC Limited Chaibasa Cement Works (registered with JSPCB) having facility of Co-processing plastic wastes. The State Govt. has decided to declare the entire area of the State of Jharkhand as the “Plastic Carry Bags Free Area”. (Annexure-4)**

- IX. Details of Alternate Treatment Technology being adopted by the State/UT: N.A.
- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.
- XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT: Urban Development & Housing Department.
- XII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river: Details are annexed as **Annexure-8.**
- XIII. Ground water regulation: Drinking water & Sanitation Dept. have identified the contaminated hand pumps and sealed those hand pumps whose water is not fit for

drinking. The contamination of the ground water is caused mainly due to the presence of Arsenic (Sahebganj, Rajmahal and Udhwa) and Fluoride (Ranchi, Gumla, Garwha, Khunti, Plamu, Dhanbad, Bokaro etc.) in excess in few of the regions of Jharkhand. Portable water is supplied to the Communities in the identified critical blocks through water tanker owned by local bodies and log book is maintained. Periodic assessment of 24 districts and 260 blocks of Jharkhand for ground water resources was conducted by Jharkhand in 2009, 2011, 2013 & 2017 which also covers the area related to 7 polluted stretches and based on which a comparative statement of dynamic ground water resource. As per report of CGWA, Dhanbad and Bermo are among the overexploited blocks, Patratu, Silli and Bermo are among semi critical blocks along the seven polluted river stretches. Groundwater quality monitoring shall be carried out at least twice in the year (winter: December-January and summer: May- June) at strategic locations to ascertain quality of groundwater.

- XIV. Good irrigation practices being adopted by the State: The report is enclosed as ***Annexure-7.***
- XV. Rain Water Harvesting: Policy made by the department of UD&HD Jharkhand has been attached with the report as ***Annexure-1.***
- XVI. Demarcation of Floodplain, removal of illegal encroachments and maintaining: **Flood plains for River Ganga and Damodar based on Highest Flood Level (HFL) has been Completed by WRD.**
- XVII. minimum e-flow of river: The report is enclosed as ***Annexure-6.***
- XVIII. Plantation activities along the rivers: ***Total – 124.69 Kms. (Jumar – 20 Kms, Swarnrekha – 65 Kms, Damodar- 20.69 Kms, Konar – 6 Kms, Sankh -8 Kms and Garga - 5 Kms)***
- XIX. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: **River Swarnrekha**
- XX. Status of Preparation of Action Plan by the 13 Coastal States: **NA**
- XXI. Regulation of Mining Activities in the State/UT: **NA**
- XXII. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring: **Environmental Compensation has been charged upon 3 units (BTPS & CTPS – Damodar River and HIDALCO Muri- Swarnrekha River)**
- XXIII. Status of Grievances redressal portal in the on-going NGT OA No. 673 of 2018: **All 8 (Eight)-grievances have been disposed off.**

XXIV. Action Taken Status for prohibition of immersion of idols, puja material and other items of religious offerings in river & other water bodies in particular during the occasion of festivals: **Draft “Jharkhand Prevention and Control of Water Pollution (Procedure for Idol Immersion) Rules” has been prepared and is under review in the State/Sub-committee.**

Annexure - 1

Government of Jharkhand
Urban Development & Housing Department

Notification

File no. -06/TC PO/Vividh-05/2016/नंवि० 644

Ranchi, dated - 23/01/17

JHARKHAND RAIN WATER HARVESTING REGULATION, 2017

Increasing urbanization has resulted in greater pressure on the infrastructure needs of urban areas. The supply of adequate quantity of potable water on one hand and managing the flooding of streets during monsoon on the other, has become Herculean tasks for the ULBs. Urban areas, including major cities, are becoming increasingly dependent on ground water as Surface Water supply is inadequate and unable to cater to the needs of the entire urban population. Freshwater sources are being heavily exploited to meet the demand of the urban population. Considering this issue seriously, Government have decided to take effective measures for collection of rain water from roof tops, paved / unpaved surfaces etc. and to use it either for recharging ground water or storing it in storage tanks. For this, it has been decided that, no building permission be granted unless provision is made for Rain Water Harvesting System. Rain water harvesting is the activity of direct collection of rain water. The rain water collected can be stored for direct use or can be recharged into the ground water. Water harvested can be used for domestic use, livestock, plant production or flood control.

Accordingly, in exercise of powers conferred by Section 592 of the Jharkhand Municipal Act, 2011, the Governor of Jharkhand hereby makes the following regulation:-

1. Short Title, Extent and Jurisdiction, Applicability of Regulations

- 1.1 **Title**-This regulation shall be called as *Jharkhand Rain Water Harvesting Regulation, 2017*.
- 1.2 **Extent and Jurisdiction**: It shall apply to all public, private, government institutions/buildings in the whole state of Jharkhand.
- 1.3 **Date of coming into force**: This regulation shall come into force from the date of publication of notification in Official Gazette.
- 1.4 **Applicability of Regulations**: Jharkhand Rain Water Harvesting Regulation, 2017 shall be applicable for installation of Rain Water Harvesting Structures in all building falling within the jurisdiction of:
 - 1.4.1. All Regional Development Authorities.
 - 1.4.2. All Urban Local Bodies.
- 1.5 All existing rules, regulations, byelaws, orders that are in conflict or inconsistent with these bye laws shall stand modified to the extent of the provision of these bye laws.

2. Definitions

In this Regulation, unless the context otherwise requires: -

- 2.1 'Act' means Jharkhand Municipal Act-2011;
- 2.2 'Aquifer' is a geological formation that stores and transmits water;
- 2.3 'Artificial' means any man made scheme or facility that adds water to an aquifer;
- 2.4 'Amenity' means roads, street, open spaces, parks, recreational grounds, play grounds, gardens, water supply, electric supply, street lighting, sewerage, drainage, public works and other utilities, services and conveniences.
- 2.5 'Applicant' means the person, who is the owner of the land or building or has title to a land or building and includes;
- 2.5.1 A trustee who is entrusted with or is concerned with any building;
- 2.5.2 A receiver, executor or administrator or a manager appointed by any Court of competent jurisdiction to have the charge of or to exercise the rights of the owner; and
- 2.5.3 A mortgagee in possession;
- 2.6 'Authority' means Regional Development Authority/Urban Local Bodies (ULBs).
- 2.7 'Bore well' means small diameter well which are generally deeper than open wells.
- 2.8 'Dug well' means traditionally made long diameter wells, pits excavated in the ground until the water reached, supported at the sides by RCC/Brick/Stone walls.
- 2.9 'Ground water' means the water retained in the inter- granular pores of soil or fissures of rock below the water table.
- 2.10 'Open Space' means an area forming an integral part of the plot, left open to the sky.
- 2.11 'Rain Water Harvesting'-The harvesting of rainwater is the collection of water from surfaces on which rain falls, and subsequently storing this water for later use. Normally water is collected from the roofs of buildings and stored in rainwater tanks. Water can also be collected in dams from rain falling on the ground and producing runoff;
- 2.12 'Run off'- Run off is the term applied to the water that flows away from a surface after falling on the surface in the form of rain;
- 2.13 'Recharge' means the process of surface water (from rain or reservoirs) joining the ground water aquifer;
- 2.14 'State government'- means the government of Jharkhand;
- 2.15 'Stakeholders means'-
- 2.15.1 All households and residents of urban areas,

- 2.15.2 Educational institutions including research and development (private & public),
- 2.15.3 All Government agencies and private agencies,
- 2.15.4 Industrial establishments,
- 2.15.5 Community Based Organizations,
- 2.16 'Water tables' means the level of water within inter-granular pores of soil or fissures of rock, below which the pores of the host are saturated;
- 2.17 Anything not defined in this regulation but is defined in the Act shall have the same meaning as defined in the Act.

3. Objectives

- 3.1 The objective of the Jharkhand rainwater harvesting regulation-2017 is to ensure the (best) possible beneficial use of rainwater endowment on the entire urban areas of Jharkhand.
- 3.2 To ensure that the maximum utilization of rainfall as possible through water harvesting, either by recharging it into the groundwater aquifers or storing it for direct use.

4. Expected outcome of the regulation

- 4.1 Recharge ground water.
- 4.2 Preserve and enhance surface water bodies in urban areas.
- 4.3 Provide back-up supplies during dry spell, draughts or periods of main supply break down.
- 4.4 Mitigate urban floods.
- 4.5 Improve quality of groundwater.
- 4.6 Provide environmental and ecological benefits to the urban area including fostering bio diversity.
- 4.7 Augment soil moisture for urban greenery.
- 4.8 Use of rainwater for urban aquaculture and vegetable production.

5. The following provisions shall be applicable for installation of Rain Water Harvesting structures

- 5.1 Provision of Rain Water Harvesting shall be mandatory for plot of size 300 sq.mt and above .
- 5.2 The building construction could be broadly classified as per the following:
- 5.2.1 Category -(A) Building on plot size less than 300 sq.mt.
- 5.2.2 Category- (B) buildings up to G-2 on the plot size more than 300 sq.mt.

5.2.3 Category- (C) buildings G+3 and above on plot size more than 300 sq.mt

- 5.3 The Rain Water Harvesting arrangement is not mandatory for buildings with a plot size less than 300 sq.mt. However the owners of buildings are advised to construct Rain Water Harvesting structure for conservation and protection of ground water. Either they adopt traditional method or any upgrade method.
- 5.4 All the layout open spaces / amenity spaces of housing societies and new constructions / reconstruction's/ additions on plots having area not less than 300 sq. mt provided that the Authority may approve the Rain Water Harvesting structures of specifications different from those specified here with, subject to the minimum capacity of rain water harvesting being ensured in each case.
- 5.5 The owner / society of every building mentioned in the para 5.4 above shall ensure that the Rain Water Harvesting structure is maintained in good condition for storage of water for non potable purposes or recharge of groundwater at all times.
- 5.6 The Authority may impose a levy for the failure of the owner of any building mentioned in the para 5.4 above to provide or to maintain Rain Water Harvesting structures as and when required.
- 5.7 Rain Water Harvesting shall be made mandatory for every Urban Local Bodies/Planning Authority to identify, demarcate, protect and maintain the water bodies that come under their jurisdiction will prepare a list.
- 5.8 If Rain water harvesting system has not been installed in the apartments/houses having area less than 300 sq.m , constructed before 2010 and there is no space available for installation of the same , the issue will be heard and resolved by the concerned ULBs and suitable order shall be passed from case to case by the CEO/ Executive officer/special officer of the ULBs.
- 5.9 It is the responsibility of the builders of the apartments to install rain water harvesting structure, if the building is constructed on or after 2010 and occupancy certificate from the respective Municipal corporation has not been procured. In case of construction on or after 2010 and the occupancy certificate has been procured from the municipal corporation than the owner of the flats will have combined responsibility to install rain water harvesting in the building.

6. Rain Water Harvesting in a building site

Includes storage or recharging into ground the rain water falling on the terrace or on any paved or unpaved surface within the building site

- 6.1 The following systems may be adopted for harvesting the rain water drawn from terrace and the paved surface

6.1.1 Open well of a minimum of 1.00 mt.dia and 6 mt. in depth into which rain water may be channeled and allowed after filtration for removing silt and floating material. The well shall be provided with ventilating covers. The water from the open well may be used for non potable

domestic purposes such as washing, flushing and for watering the garden etc.

- 6.1.2 Rain Water Harvesting for recharge of ground water may be done through a bore well around which a pit may be excavated up to a depth of atleast 3.00 mt and refilled with stone aggregate and sand. The filtered rain water may be channeled to the refilled pit for recharging the borewell.
- 6.1.3 An impervious surface / underground storage tank of required capacity may be constructed in the setback or other open space and the rain water may be channeled to the storage tank. The storage tank shall always be provided with ventilating covers and shall have draw-off taps suitably placed so that the rain water may be drawn off for domestic, washing gardening and such other purposes. The storage tanks shall be provided with an overflow.
- 6.1.4 The surplus rain water after storage may be recharged into ground through percolation pits or trenches or combination of pits and trenches. Depending on the geographical and topographical condition, the pits may be of the size of 1.20 mt. width $\times$ 1.20 mt. length $\times$ 2.00 mt. to 2.50 mt. depth. The trenches can be of 0.60 mt width $\times$ 2.00 to 6.00 mt. length $\times$ 1.50 to 2.00 mt. depth. *The capacity/ volume and number of pits and trenches should depend upon the catchment area and quantity of peak rain fall of the area. It can vary from place to place.* Terrace water shall be channeled to pits or trenches. Such pits or trenches shall be back filled with filter media comprising the following materials.
- 6.1.4.1 40 mm stone aggregate as bottom layer upto 25% of the depth;
 - 6.1.4.2 20 mm stone aggregate as lower middle layer upto 25% of the depth;
 - 6.1.4.3 Coarse sand as upper middle layer upto 40% of the depth;
 - 6.1.4.4 A thin layer of fine sand as top layer.
- 6.1.5 Top 10% of the pits / trenches will be empty and a splash is to be provided in this portion in such a way that roof top water falls on the splash pad.
- 6.1.6 Brick masonry wall is to be constructed on the exposed surface of pits / trenches and the cement mortar plastered.
- 6.1.7 The depth of wall below ground shall be such that the wall prevents loose soil entering into pits / trenches. The projection of the wall above ground shall at least be 15 cms.
- 6.1.8 Perforated concrete slabs shall be provided on the pits / trenches. Bund should be created to minimize the run off.

644
23/01/19

10-12-2018

these gardens are adapted to survive in short periods of flooding as well as dry soils in between storms.

- 8.2 They are strategically located to capture runoff from hard surfaces such as a driveway, parking area, sidewalk of streets. Rain gardens fill with a few inches of water after a storm and then water filters into the surrounding soil, rather than running off to the street or storm culvert.
- 8.3 Rain gardens are a very good option to help lower the impact of impervious surfaces and polluted runoff because they are low-tech, inexpensive, sustainable and aesthetically pleasing.
- 8.4 There are multiple benefits of rain garden to the community and the local environment which include:
 - 8.4.1 Reduced polluted stormwater runoff from yards into local streams,
 - 8.4.2 Reduced localized flooding,
 - 8.4.3 Reduced erosion,
 - 8.4.4 Pollution prevention.
 - 8.4.5 Groundwater recharge,
 - 8.4.6 Enhanced wildlife habitat,
 - 8.4.7 Aesthetics.

9. Awareness of stakeholders:

- 9.1 Publication of Rain Water Harvesting guidelines and conduct awareness campaigns, Orientation programmes, etc. for various stakeholders (Bulk consumers, residents, etc).
- 9.2 To construct model demonstration project for public building, educational institutions, parks, open spaces, etc on rain water harvesting to disseminate the idea to various stakeholders.

10. Formation of Monitoring committee at State and District level

- 10.1 State level Advisory Committee will monitor the entire process of Rain Water Harvesting implementation at the State level. This committee will also comprise of a technical cell, which will provide the necessary technical support for implementation of Rain Water Harvesting. This Committee shall be chaired by the Principal Secretary, Urban Development & Housing Department and shall meet at least once in three months to review the status of implementation of Rain Water Harvesting.
- 10.2 District level Advisory Committee will monitor the implementation of Rain Water Harvesting at district level. The Committee shall comprise of representatives from all the concerned Government Departments involved in urban water management like Lake Development Authority, Central Ground Water Board, Mines and Geology Department, Town Planning Department and NGOs (working in water conservation), Academic institutions and field experts. This committee shall be chaired by the concerned Deputy Commissioner of the district. The committee shall be responsible to prepare, implement and monitor

the town / city wise RWH Action Plans. The Committee shall meet regularly at least once in three months to review the status of implementation.

10.3 Roles and responsibilities of the committees

10.3.1 State Level Advisory Committee - Frame the State Policy, prepare Technical Guidelines, Manuals and monitor the overall implementation of RWH.

10.3.2 Technical Cell - Provide the necessary technical inputs for the installation of Rain water harvesting current practices, drawings, legislations. etc

10.3.3 District Rain Water Harvesting Committee - Formulation and implementation of RWH Action plans.

10.3.4 Agencies/NGOS - provide the necessary technical inputs to the District Committees and ULBs for implementation of RWH Action Plans.

10.3.5 Physical verification of structures would be carried out before the onset of monsoon each year. Penalty shall be charged if not properly maintained.

11. Prohibition on digging of new tube wells/bore wells. Proper enforcement of such prohibition is required to be monitored at higher level and permission may only be given in exceptional circumstances.

11.1 Power of Municipalities to use any discarded or dead tube well as recharge pit or percolation pit. The municipality may provide or cause to be used any discarded or dead tube well for use as percolation pit for any locality or for use as community Rain water harvesting system.

11.2 The department will prepare a list of all government buildings, which do not have rain water harvesting facilities. Such buildings will be served notices and they will be directed to implement the new structural designs at the earliest.

12. Incentives and disincentives mechanism shall be designed to facilitate the implementation of Rain Water Harvesting like rebate/fine in property tax etc.

13. Responsibility of the household- It shall be ensured by every household responsible for construction of Rain Water Harvesting structure that in no case polluted or waste water is let into the recharge pit as it will lead to pollution of the ground water.

14. Penalty:

14.1 Any person found violating clause no. 13 shall be punishable as per section 340 of the Jharkhand Municipal Act 2011.

14.2 Occupancy certificates will not be issued to the owners of the buildings unless they produce satisfactory proof of compliance of installation of rain water harvesting.

14.3 The Authority shall impose fine for the failure of the owner/builders of any building to install or to maintain Rain Water Harvesting structures depending on the residential area.

14.4 The state government may levy incremental penalty on erring property owners/builder. The rain water harvesting unit is must in houses built on sites of 300sq.mt or more. The rule applies to properties built in the year 2010 or earlier. The penalty for the first three months is 25% of the water bill. From the

fourth month the penalty becomes 50% of the water bill, which after six months becomes equivalent to water bill.

15. Power of the State Government

- 15.1 Notwithstanding anything contained in the foregoing paragraphs of the Jharkhand Rainwater Harvesting Regulation-2017 the State Government by issuance of notification in the official gazette may amend or withdraw any of the provisions and / or the schemes mentioned herein above.
- 15.2 Interpretation - Should any doubt arise as to the interpretation of any of the provisions of these Rules, the matter shall be referred to the Urban Development and Housing Department, whose decision thereon shall be final.

By the order of the Governor of Jharkhand,

(Arun Kumar Singh)

Principal Secretary to Government

Urban Development and Housing Department

Memo No. File no. -06/TC PO/Vividh-05/2016/ नंदि० 644 Ranchi, Dated 23/01/17

Copy to : Copy forwarded to the Superintendent, Government Press, Jharkhand, Ranchi for publication in the forthcoming issue of Government Gazette/Nodal officer, E-Gazette, Urban Development and Housing Department, Government of Jharkhand for information and necessary action.

(Arun Kumar Singh)
Principal Secretary to Government,

Memo No File no. -06/TC PO/Vividh-05/2016/ नंदि० 644 Ranchi, Dated 23/01/17

Copy to : P.S to Minister, Urban Development and Housing Department/ All Additional Chief Secretary/ Principal Secretary/Secretary, Govt of Jharkhand/All Divisional Commissioners, Jharkhand/Director, SUDA / Director DMDA/Town Planner, Town Planning Organization/ All Deputy Commissioners, Jharkhand / All Officers, UD&HD/ Municipal Commissioners/ Executive Officers/ Special Officers, urban local bodies for information and necessary action.

(Arun Kumar Singh)
Principal Secretary to Government

K. K. K.

Annexure - 2

**Government of Jharkhand
Urban Development & Housing Department**

RESOLUTION

No.- SUDA/AMRUT/Wastewater Policy/38/2017/2833..... Ranchi, Dated 27/4/17

Subject:- Jharkhand Waste Water policy, 2017

1. BACKGROUND

Water recycling is reusing treated wastewater for beneficial purposes such as agricultural and landscape irrigation, industrial processes, toilet flushing, and replenishing a ground water basin (referred to as ground water recharge). Water recycling offers resource and financial savings. Wastewater treatment can be tailored to meet the water quality requirements of a planned reuse. Recycled water for landscape irrigation requires less treatment than recycled water for drinking water. A common type of recycled water is water that has been reclaimed from municipal wastewater, or sewage. The term water recycling is generally used synonymously with water reclamation and water reuse. Gray water is reusable wastewater from residential, commercial and industrial bathroom sinks, bath tub shower drains, and clothes washing equipment drains. Gray water is reused onsite, typically for landscape irrigation.

Through the natural water cycle, the earth has recycled and reused water for millions of years. Water recycling, though, generally refers to projects that use technology to speed up these natural processes. Water recycling is often characterized as "unplanned" or "planned."

2. WHY WATER RECYCLING

Recycled water can satisfy most water demands, as long as it is adequately treated to ensure water quality appropriate for the use. Recycled water can satisfy most water demands, as long as it is adequately treated to ensure water quality appropriate for the use

2.1 Uses for Recycled Water

- 2.1.1 Landscaping
- 2.1.2 Public parks
- 2.1.3 Cooling water for power plants and oil refineries
- 2.1.4 Processing water for mills, plants
- 2.1.5 Toilet flushing
- 2.1.6 Dust control
- 2.1.7 Construction activities
- 2.1.8 Concrete mixing
- 2.1.9 Artificial lakes
- 2.1.10 Car, Cloth & floor washing
- 2.1.11 Garden and irrigation using a hose spray or drip irrigation
- 2.1.12 Construction.

[Signature]

[Signature]

2.1.13 Artificial lakes

Although most water recycling projects have been developed to meet nonpotable water demands, a number of projects use recycled water indirectly for potable purposes. These projects include recharging ground water aquifers and augmenting surface water reservoirs with recycled water. In ground water recharge projects, recycled water can be spread or injected into ground water aquifers to augment ground water supplies, and to prevent salt water intrusion.

2.2 What are the Environmental Benefits of Water Recycling?

In addition to providing a dependable, locally-controlled water supply, water recycling provides tremendous environmental benefits. By providing an additional source of water, water recycling can help us find ways to decrease the diversion of water from sensitive ecosystems. Other benefits include decreasing wastewater discharges and reducing and preventing pollution. Recycled water can also be used to create or enhance wetlands and riparian habitats.

2.3 Recycling Water Can Save Energy

As the demand for water grows, more water is extracted, treated, and transported sometimes over great distances which can require a lot of energy. If the local source of water is ground water, the level of ground water becomes lower as more water is removed and this increases the energy required to pump the water to the surface. Recycling water on site or nearby reduces the energy needed to move water longer distances or pump water from deep within an aquifer. Tailoring water quality to a specific water use also reduces the energy needed to treat water. The water quality required to flush a toilet is less stringent than the water quality needed for drinking water and requires less energy to achieve. Using recycled water that is of lower quality for uses that don't require high quality water saves energy and money by reducing treatment requirements.

3. TITLE

This policy shall be called as Jharkhand Waste Water Policy, 2017

4. VISION

"All Jharkhand cities and towns achieve the water recycling capability from STPs, household, commercial and industrial areas in a sustainable manner and reduce the fresh water demand to a sizeable extent".

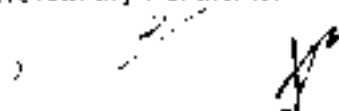
5. GOAL

Jharkhand Waste Water Policy, 2017 is to ensure increase use of recycled water for other purposes apart from drinking, through the provision of appropriate technologies for water recycling and protection of environment.

The policy specifically endorses the following core principles:

5.1 To protect the environment and the State's water resources

5.2 To promote proper functioning of network based sewerage systems and ensure connections of household so as to prevent dry weather flow in drains & streets



- 5.3 Treatment of sewage, sludge and grey water and recycle it for other uses.
- 5.4 Promoting recycle & reuse of household, commercial and industrial grey water
- 5.5 To make waste water project economical and environmentally sustainable.
- 5.6 Inclusive and participatory decision making in waste water recycling.
- 5.7 Transparent decision making processes to achieve socio-environmental as well as economic financial objectives.
- 5.8 Capacity building for enhanced institutional ability to govern the sector effectively.
- 5.9 Ensuring, protecting and optimizing investments.
- 5.10 Public Private Partnership (PPP) in the most appropriate manner.
- 5.11 Public outreach for environmental and health related outcomes.
- 5.12 Establishment of an efficient, effective, affordable and accountable system for managing the water recycling from urban sewerage and septage management

6. OBJECTIVES

To overcome the shortage of water by recycling it and putting them for different purpose, so that the use of potable water should mostly be for drinking purposes. The re-use of water in a sizeable quantity up to a certain quality after proper treatment of water for non-drinking purpose and last but not the least scientifically disposal of the remaining waste is the object behind formulating this policy.

- 6.1 To ensure 100 percent wastewater recycling in cities/towns
- 6.2 To improve waste water supply service focusing on customer satisfaction, coverage, frequency and reliability
- 6.3 Supply of potable water that incurs large amount of money to be reduced and waste water to be used in non-drinking purposes
- 6.4 Promoting and augmenting wastewater reuse for ensuring environmental sustainability by reducing burden on already stressed basin and aquifers and preventing their depletion.
- 6.5 Promoting wastewater reuse from sewage discharge leading to reduction in environmental costs and health hazards
- 6.6 Wastewater reuse by ensuring resource conservation & preservation of sensitive ecosystem and reducing pollutant loading.

All cities and towns of Jharkhand become totally sanitized, healthy and liveable and ensure sustain good public health and environmental outcomes for all their citizens with a special focus on hygienic and affordable sewerage facilities for the urban poor and women. All urban dwellers will have access to and use safe and hygienic sewerage or sludge facilities and arrangements.

7. COMPOSITION OF GREY WATER

- 7.1 Greywater from Bathroom





Water used in hand washing and bathing generates around 50-60% of total greywater and is considered to be the least contaminated type of greywater. Common chemical contaminants include soap, shampoo, hair dye, toothpaste and cleaning products.

7.2 Greywater from Cloth Washing Water

It is used in cloth washing generates around 25-35% of total greywater. Wastewater from the cloth washing varies in quality from wash water to rinse water to second rinse water. Greywater generated due to cloth washing can have faecal contamination with the associated pathogens and parasites such as bacteria.

7.3 Greywater from Kitchen

Kitchen greywater contributes about 10% of the total greywater volume. It is contaminated with food particles, oils, fats and other wastes. It readily promotes and supports the growth of microorganisms. Kitchen greywater also contains chemical pollutants such as detergents and cleaning agents which are alkaline in nature and contain various chemicals. Therefore kitchen wastewater may not be well suited for reuse in all types of greywater systems.

8. LEGISLATION AND GUIDANCE DOCUMENTS

The Waste water Policy should be read in accordance with the most current versions of the following: Legislation and document

- 8.1 Environmental (Protection) Act, 1986
- 8.2 The Environment (Protection) rules, 1986
- 8.3 The water (Prevention and Control of Pollution) Act, 1974
- 8.4 The water (Prevention and Control of Pollution) cess, Act, 1974
- 8.5 The water (Prevention and Control of Pollution) Amended rules, 2011
- 8.6 The water (Prevention and Control of Pollution) Cess rules, 1978
- 8.7 The water (Prevention and Control of Pollution) Rules, 1975
- 8.8 National Urban sanitation Policy 2008
- 8.9 National Water Policy 2012
- 8.10 Quality standards suggested by Central Pollution Control Board and Jharkhand State Pollution Control Board.
- 8.11 Standards set by Bureau of Indian Standards (BIS)

9. WHAT NEEDS TO BE DONE

- 9.1 A Separate System: STPs water reuse and grey water reuse to encourage.
- 9.2 Water reclamation centers to reclaim water after treatment of domestic sewage and greywater.
- 9.3 Where water Reclamation centers are situated in the midst of residential area, these can be built under ground to avoid the problem odour and parks can be maintained on the roof of treatment facility.

Shanku

[Signature]

- 9.4 One of the Scheme of treatment may be Grit chamber, Primary sedimentation tank, Reaction Tank, Secondary sedimentation tank, Chlorination Tank followed by sand filtration.
- 9.5 Reverse osmosis filtration may be used for tertiary treatment.
- 9.6 100% households, commercial area and industrial area to be covered for wastewater recycling
- 9.7 Sewerage and water supply activity should be coordinated.
- 9.8 Water tariff should be such as to discourage the people from wasteful use of water.
- 9.9 Provision of adequate wastewater collection and treatment facilities for all the cities and towns in the hilly area
- 9.10 Protection of the environment and public health in the areas affected by the proposed systems, especially, surface water and ground water.
- 9.11 Consideration of treated effluents as a source for reuse (irrigation/ industrial).

10. THE POLICY

10.1 On Resource Development

Wastewater is a perennial water source and shall form an integral part of renewable water resources and the State water budget. Each local body will consider it as a resource and make the plan for reuse as per the site conditions with the help of experts. All local bodies will make city wastewater reuse plan (CWRP) for a period of 20 years considering future development and city development in line with city Master plan to avoid any conflicts in developing the city in the future.

Existing levels of wastewater services shall be maintained and upgraded where necessary to enhance public health and the environment and separate plan is to be prepared by local body as per their requirement. Treatment of wastewater shall be targeted towards producing an effluent fit for reuse in irrigation in accordance with WHO guidelines as a minimum. Reuse of treated wastewater in other purposes shall be subject to appropriate specifications. Coordination shall be maintained with the official bodies in charge of urban development to account for the treatment and disposal of their liquid wastes. Central treatment plants shall be built to serve semi-urban areas, and collection of wastewater can be made initially through trucking until collection systems are justified. Specifications and minimum standards as stipulated by CPHEEO shall be applicable for the use of septic tanks in urban areas. Particular attention shall be paid to the protection of underlying aquifers.

10.2 On Resource Management

It is highly imperative that Urban Local Body shall develop and manage wastewater systems as well as the treatment and reuse of the effluent.

A basin management approach shall be adopted where possible. The use of treated wastewater from sewerage, households, commercial and from industrial application shall be given the highest priority and shall be pursued with care. Effluent quality standards shall be defined based on the best attainable treatment technologies, and calibrated to support or improve ambient receiving conditions, and to meet public health standards for end users. Key factors will include the location of the discharge, its

Shankar

Shankar

proximity to wells, the type of receiving water, and the nature and extent of end uses. Industries shall be encouraged to recycle part of its wastewater and to treat the remainder to meet standards set for ultimate wastewater reuse or to meet the regulations set for its disposal through the collection systems and/or into the receiving environment. Wastewater from industries with significant pollution should be treated separately to standards allowing its reuse for purposes identified by the city or to allow its safe disposal or water recharging. Consideration shall be given to isolating treated wastewater from surface and ground waters used for drinking purposes, and to the blending of treated effluent with relatively fresher water for suitable reuse. Urban Local Bodies can engage Experts from Government Engineering Colleges of Jharkhand NITs/Engineering colleges.

10.3 On Wastewater Collection and Treatment

10.3.1 City Plan : A proper and updated city plan is an essential pre-requisite for proper planning and design of all utilities and more so for the Sewerage Systems and water recycled from houses. The State shall endeavor to have proper digital city maps showing the levels prepared through modern available technology. The digital city maps should clearly show the city feature over ground and underground including all utilities. Geographical Information System (GIS), Ground Penetrating Radar (GPR), Total station etc. tools may be used for preparation of city map. The city maps should be updated for every 5 years. An effective and comprehensive GIS based data base and Management Information System correctly mapping the assets, user base and status of operations shall be established.

10.3.2 Design Period: Every city has to prepare a City Wastewater Recycling Plan (CWP) for next 20 years along with 5 year short term plan. The CWP for the city should take into account the likely changes in the city in next 20 years and plan for them and will be according to city Master plan. The Detailed Project Report (DPR) for recycling should be in accordance to CWP. The design of the sewers and planning of space should be for the 30 year projection requirements and for recycling from households and commercial establishments. However, the units which can be developed in modules (e.g. Sewage Treatment Facility, sewerage Pumping machinery, on site treatment facilities, etc.) can be designed for appropriate shorter period. Earmark of land for Sewage Pumping Station (SPS) and Sewage Treatment Plant (STP) should be done for all Urban Local Bodies (ULBs) and appropriate land allotment shall be done by Development Authority/Urban Improvement Trust/State Govt. on priority.

10.4 On Reuse of Treated Effluent and Sludge

- 10.4.1** Treated wastewater effluent is considered a water resource and is added to the water stock for reuse.
- 10.4.2** Blending of treated wastewater with fresh water shall be made to improve quality where possible.
- 10.4.3** Crop nutrient requirements shall be determined taking into consideration the prevailing effluent quality. Overuse of nutrients shall be avoided.

Shankar

[Signature]

- 10.4.4 Accumulation of heavy metals and salinity shall be monitored, managed and mitigated. Leaching of soils shall be advocated by the irrigation authorities.
- 10.4.5 Treated effluent quality should be monitored and users alerted to any emergency causing deterioration of the quality so that they will not use such water unless corrective measures are taken.
- 10.4.6 Studies should be conducted and projects designed and implemented to store the excess treated wastewater in surface reservoirs but artificial recharge is not permitted. Due attention shall be given to the quality of treated and groundwater and the characteristics of the strata

10.5 Industry:

Industrial reuse of reclaimed wastewater represents major reuse next only to irrigation in both developed and developing countries. Reclaimed wastewater is ideal for many industrial purposes. Where effluent is to be used in the industrial processes, it should be the responsibility of the industry to treat it to the quality standards required. Wastewater is to achieve adequate quality for reuse as cooling water.

The membrane filtration system can remove all suspended solids, faecal coliforms, and giardia cysts. It could also significantly reduce human enteric viruses such as coxsackievirus and enterovirus.

10.6 Industrial uses for reclaimed water include:

10.6.1 Evaporative cooling water:

10.6.1.1 once-Through cooling system

10.6.1.2 Re-circulating cooling system

10.6.1.3 cooling water quality requirements

10.6.2 Boiler -Feed water- The use of reclaimed water differs little from use of conventional public supplies for boiler-feed water, as both require extensive additional treatment. Quality requirement for boiler feed make up water are dependent upon pressure at which boiler is operated.

10.6.3 Industrial process water- Suitability of reclaimed water for use in industrial process depends upon particular use like-

10.6.3.1 Pulp and paper

10.6.3.2 chemical industry

10.6.3.3 Textile industry

10.6.3.4 Petroleum and coal

10.7 Re-use Options:

The following options for re-use of effluent have been identified. In general, public health concern is the major issue in any type of reuse of wastewater, be it for irrigation or non-irrigation utilization. especially long term impact of reuse practices. It is difficult

Shah

[Signature]

to delineate acceptable health risks and is a matter that is still hotly debated. Potential reuse of wastewater depends on the hydraulic and biochemical characteristics of wastewater, which determine the methods and degree of treatment required. While agricultural irrigation reuses, in general, require lower quality levels of treatment, domestic reuse options (direct or indirect potable and non-potable) reuses need the highest treatment level. Level of treatment for other reuse options lie between these two extremes. The reuse options may be (artificial recharge of aquifers is not permitted):

10.7.1 Irrigation

10.7.1.1 Agriculture and forestry

10.7.1.2 Landscaping

10.7.2 Fish - farming

10.7.3 Industry

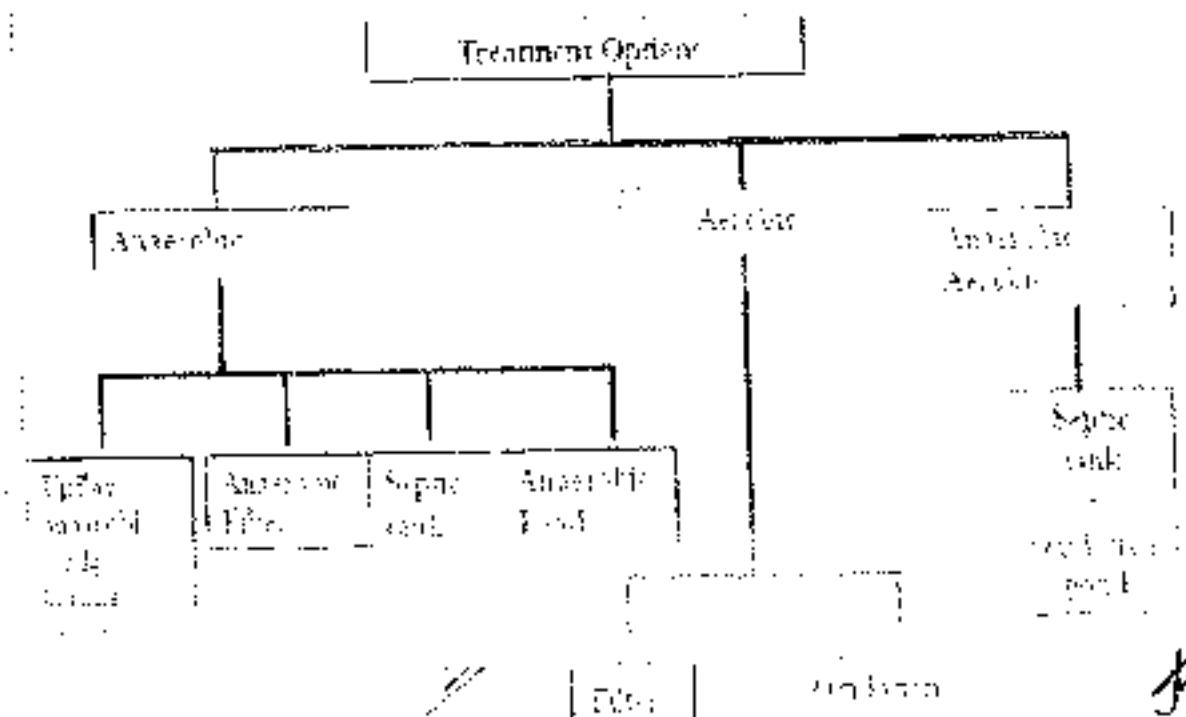
10.7.4 Non-potable Domestic Reuse

The detailed project report should clearly define the best reuse option particular to town and strategy to obtain it. Action plan with clarity should be the part of Detailed Project Report (DPR), while preparing sewerage Projects. Before deciding the reuse of treated waste water authority must full fill the water quality norms and its legal implications.

Governing local body can sell the treated waste water and digested sludge to generate the revenue.

11. GREYWATER TREATMENT OPTIONS

Greywater reuse methods can range from low cost methods such as the manual bucketing of greywater from the outlet of bathroom, to primary treatment methods that coarsely screen oils, greases and solids from the greywater before other uses, to more expensive secondary treatment systems that treat and disinfect the greywater to a high standard before using it further. The choice of system will depend on a number of factors including whether a new



system is being installed or a disused wastewater system is being converted because the household is connected to sewer.

11.1 Components of Greywater Treatment Systems

A number of technologies have been applied for greywater treatment worldwide varying in both complexity and performance. The following in general greywater systems considered :-

11.1.1 Primary treatment pre-treatment to secondary treatment:

11.1.1.1 Screening

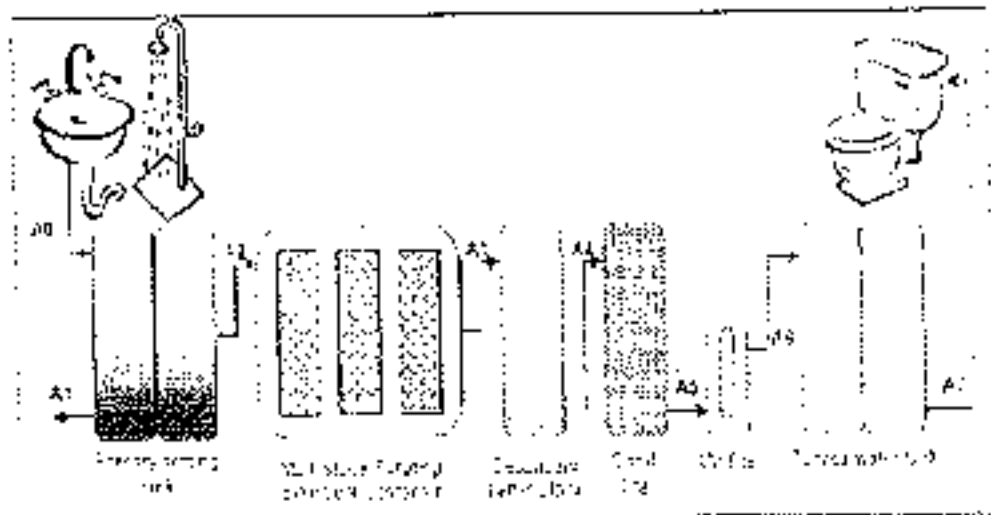
11.1.1.2 Equalization

11.1.2 Secondary treatment -I

11.1.2.1 Gravel filtration

11.1.2.2 Sand filtration

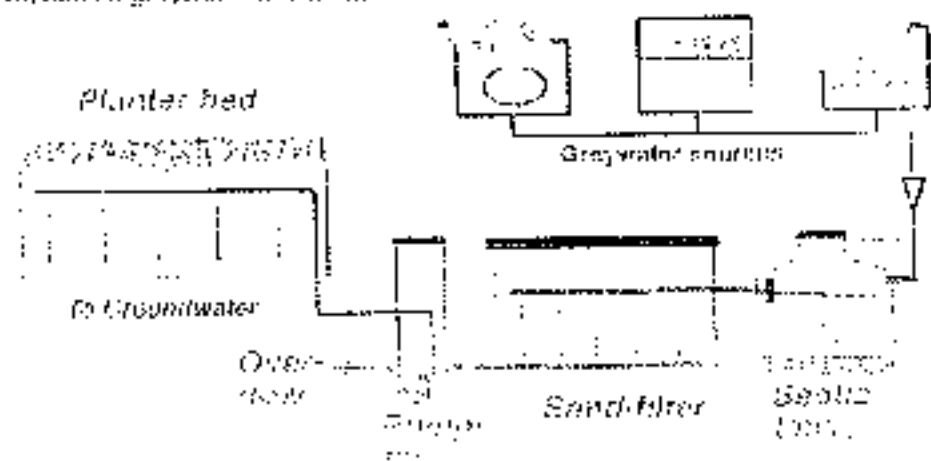
11.1.2.3 Chlorination



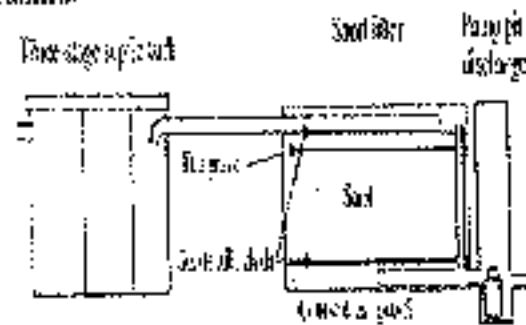
11.1.3 Secondary treatment -II

Broken brick, Charcoal, Chlorination, Treated greywater

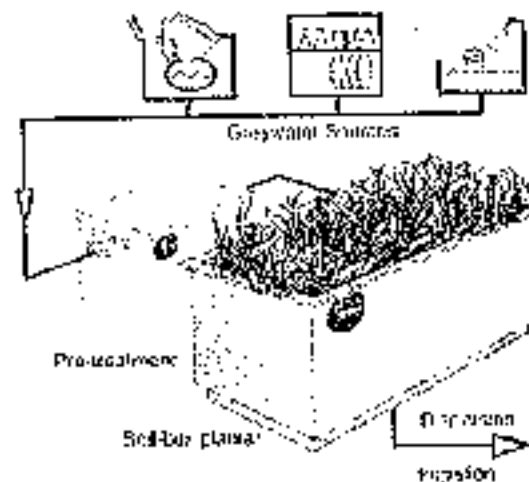
Advanced greywater treatment



Anaerobic to aerobic treatment



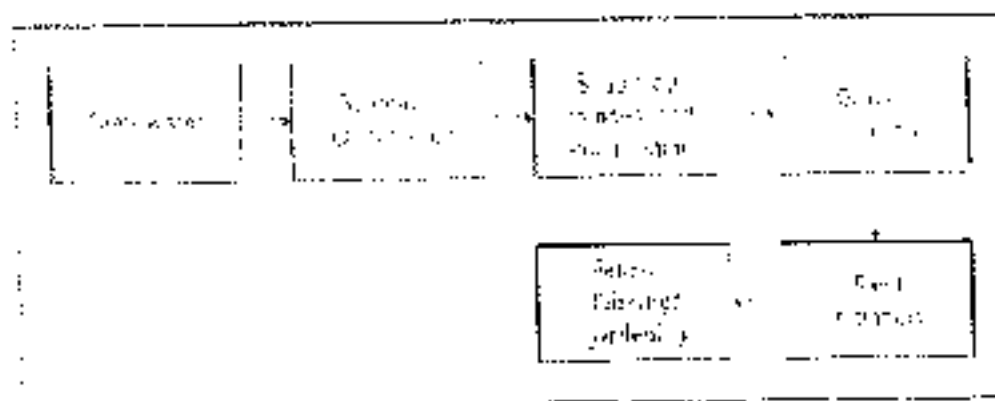
Aerobic Pre-treatment -- suitable for showers, hand-washing and laundry* water treatment.



11.2 Household level Greywater Treatment and Reuse System

In water scarce areas, with specific treatment the greywater can be cleaned and reused not only for gardening but for other use also.

Technological process Greywater treatment process at the household level mainly involves screening (grease and slit removal), soap froth removal, equalization and filtration. Flow diagram of household based greywater treatment system is shown below



Greywater treatment for reuse in household

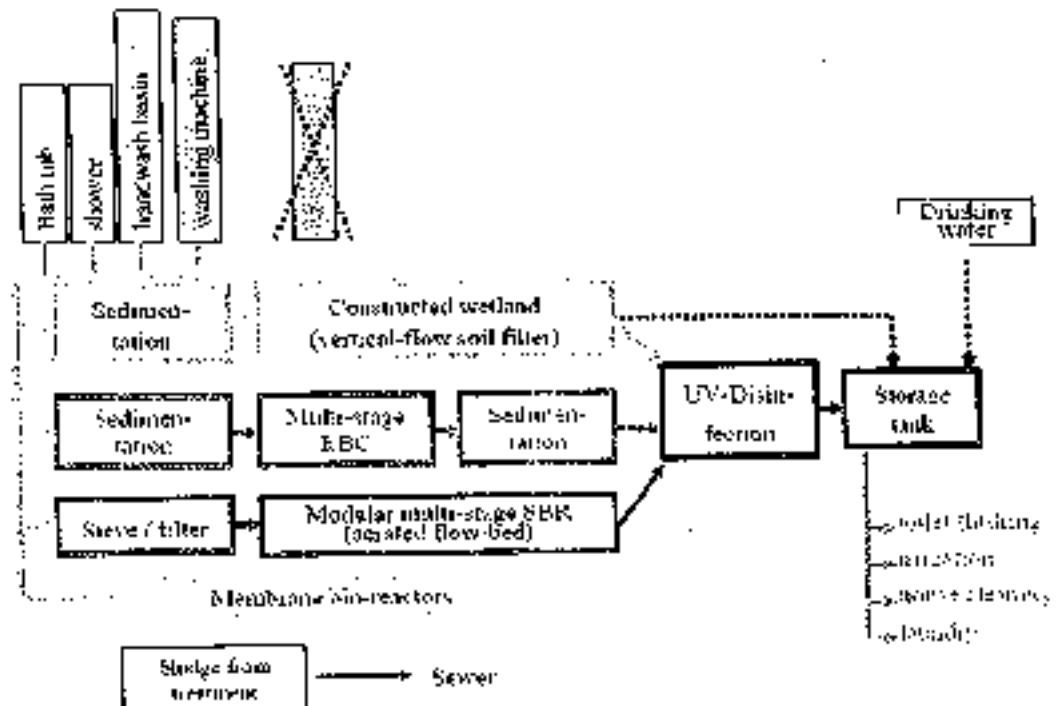
Handwritten signature

Handwritten signature

Handwritten signature

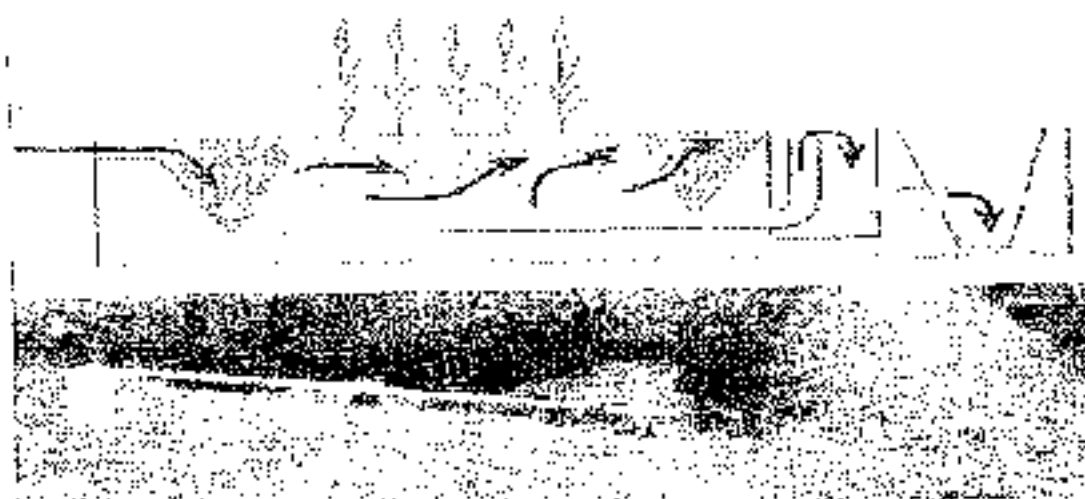
Advantages:

- 11.2.1 Reduces fresh water requirement
- 11.2.2 Prevents greywater stagnation
- 11.2.3 Prevents vector breeding
- 11.2.4 Use in flushing toilets to make toilets functional
- 11.2.5 Use of greywater in gardening
- 11.2.6 Minimal risk to users of greywater as it incorporates principles of water safety.



11.3 Constructed wetlands:

Constructed wetlands have been used successfully in the past for the treatment of wastewaters. Physical, chemical, and biological processes combine in wetlands to remove contaminants from wastewater. Greywater treatment is achieved by soil



filtration in reed-bed systems which reduces the organic load of the greywater considerably, in addition to decreasing the concentrations of faecal bacteria. If properly designed, these systems would produce a clear and odourless effluent, which can be stored for several days without the need for disinfection.

12. ON PRICING FINANCING AND INVESTMENT

- 12.1 In view of increasing marginal cost of wastewater collection and treatment, wastewater charges, connection fees, sewerage taxes and treatment fees shall be set to cover at least the operation and maintenance costs. It is also highly desirable that part of the capital cost of the services shall be recovered. The ultimate aim is for a full cost recovery.
- 12.2 Appropriate criteria in order to apply the "polluter pays" principle shall be established.
- 12.3 Different charges for different areas may be applied. This shall be assessed for each geographical area as a function of end uses and effluent quality and will be subject to economic and social considerations.
- 12.4 Because of the limited financial resources available to Government of Jharkhand, setting investment priorities in wastewater will be compatible with government investment plans.
- 12.5 Criteria for prioritizing investments in the wastewater sector shall take into account the current and future needs of the state, needs to expand wastewater systems in urban areas and to provide wastewater systems to smaller towns and villages.
- 12.6 Priorities of wastewater projects shall not be disconnected from water supply projects and urbanisation in general. Decisions will be made concerning them to attain optimum solutions to the need for services, availability of finance and availability of trained manpower.
- 12.7 Treated effluent shall be priced and sold to end users at a price covering at least the operation and maintenance costs of delivery.

[Handwritten signature]

[Handwritten mark]

[Handwritten signature]

- 12.8 It is the intention of the Government, through private sector participation, to transfer management of infrastructure and services from the public to the private sector, in order to improve performance and upgrade the level of service.
- 12.9 The role of the private sector will expand with management contracts, concessions and other forms of private sector participation in wastewater management.
- 12.10 The concepts of Built Operate Own./Built Operate Transfer shall be entertained, and the impact of such concepts on the consumers shall be continually addressed and negative impacts mitigated.
- 12.11 The private sector role in reuse of treated effluent shall be encouraged and expanded.
- 12.11.1 The costs will depend on the system/technology adopted for collection of sewerage and treatment and the administration costs. It is important that the full cost of the service is assessed for each urban area instead of adopting a typical cost assessment. The full cost shall cover the following:
- 12.11.1.1 Institutional aspect of the sanitation service e.g. the management information systems, accountancy and finance management, billing and collection, customer services, etc. and oversight activities.
- 12.11.1.2 Operating, maintaining (on a planned maintenance basis), repairing replacing and extending sanitation service physical infrastructure.
- 12.11.1.3 Keeping updated infrastructure and customer data on a GIS base.
- 12.11.1.4 Managers, staff, vehicles, equipment and consumables associated with above.
- 12.11.1.5 Consumable like chemicals etc.
- 12.11.1.6 Power charges.
- 12.11.1.7 Spare Parts.
- 12.11.1.8 Any other O&M contract amount
- 12.11.2 The urban local bodies are proposed to have following sources funds for O&M :-
- 12.11.2.1 The O&M cost will be met from the Government grants and contribution of the beneficiaries
- 12.11.2.2 Revenue from sale of treated waste water.

The government in town policy shall include the provision of the recovery of full capital cost of laying sewerage system and prorata cost of STP for new colonies. It shall be mandatory for the ULBs to adhere to minimum 20% reuse and recycling of treated waste water. The treated waste water may be sold at a rate as decided by adopting transparent procedure as decided by State Government.

12.12 Public Private Partnership (PPP)/Engineering Procure Construct (EPC) and Operational & Maintenance (O&M) Contract

As there is budget constraint from the Central and the state side the option of the Sewerage Project through Public Private Partnership (PPP) will be explored. In case the PPP mechanism is not workable then the EPC mechanism will be explored and long term O&M Contract will be done.

Shankar

[Signature]

13. ON STANDARDS, REGULATIONS AND QUALITY ASSURANCE

- 13.1 Particular attention shall be focused on adopting and enforcing effluent and sludge standards for municipal and industrial wastewater treatment plants and for discharges from industries, laboratories, hospitals, slaughterhouses and other businesses.
- 13.2 Extensive and comprehensive monitoring programs shall be developed. Influent to and effluent from the plants and throughout watercourses shall be measured and monitored against all appropriate parameters to ensure that public health objectives and treatment efficiency goals are attained.
- 13.3 Observation wells shall be installed near the treatment plants to monitor groundwater quality where necessary, and to mitigate adverse impacts where and when needed.
- 13.4 Data collected from the monitoring process shall be entered and stored, processed and analyzed through computer software, and results published periodically.
- 13.5 Roof and storm water connections to public sewers shall be prohibited. Collection of storm water shall be done separately and will be the subject of water harvesting.
- 13.6 Effluent and sludge standards for the disposal of hazardous liquid wastes shall be defined to ensure the safe disposal of such wastes.
- 13.7 State Pollution Control Board/ Central Pollution Control Board regulations for disposal norms shall be mandatory.
- 13.8 Industrial waste water is not allowed to be disposed off in the sewer line. EILB can issue notification for penalties to be imposed on the such industrial units.
- 13.9 Laboratories shall be maintained and properly equipped to provide services and reliable data needed to ensure enforcement of and adherence to standards and regulations.

14. ON LEGISLATION AND INSTITUTIONAL ARRANGEMENTS

- 14.1 Legislation and institutional arrangements for the development and management of wastewater shall be periodically reviewed. Gaps shall be filled, and updating of the institutional arrangements with parallel legislation shall be made periodically to cope with varying circumstances and for this government shall notify an agency giving full power to take necessary action in this matter.
- 14.2 The role of the Government shall be fine-tuned and its involvement reduced, to be regulatory and supervisory. Involvement of the stakeholders in wastewater management and support shall be introduced and expanded.
- 14.3 On Public Awareness
 - 14.3.1 The public shall be educated through various means about the risks associated with the exposure to untreated wastewater and the value of treated effluents for the different end uses.
 - 14.3.2 Programs on public awareness shall be designed and conducted to promote the reuse of treated wastewater
 - 14.3.3 Public awareness campaigns shall also be waged to educate the public on the importance of domestic hygiene, wastewater collection, treatment and disposal.

Shankar

11

11

- 14.3.4 It is observed that the system is dependent on the appreciation of the beneficiaries to the advantages and importance of the system to them and thereby working together towards making it successful. The co-operation is vital for following areas:
- 14.3.4.1 Protecting the system from getting choked due to entry of extraneous material in the sewer system. A vigilant public will help prevent this.
 - 14.3.4.2 The sewerage system yield full benefits or disease protection when there is 100% connectivity.
 - 14.3.4.3 It is important that the beneficiaries appreciate the benefits and pay for their upkeep. The systems require proper upkeep and the cost associated with maintenance and upkeep should at least be recovered from the beneficiaries. The principal of the polluter pays will be adopted only by an enlightened and participating public.
- 14.3.5 A conscious campaign has to precede the planning and implementation of the sewerage Systems. ULB, Non Government Organizations and local neighborhood committees could give the process a thrust.
- 14.3.6 A public participation process will not only aid in identifying potential consumers but also serve as a public education program. Potential users will be mainly concerned with the quality of reclaimed water and reliability of its delivery and the constraints in using reclaimed water. Also, connection costs or additional sewerage treatment cost might affect their ability to use the product. Consultations with various stake holders will aid in structuring of tariff and discounts for adopting reuse technologies, awareness on dual piping system, water conservation and safety issues.
- 14.3.7 Municipal Bodies should decide and pass resolution regarding sewer connection charges. The provision should be widely publicized
- 14.3.8 Series of 'Sewer connection camps' may be organized. The time and venue should be publicized widely to inform residents. The days, time and venue should be to suit the convenience of public.
- 14.3.9 Ensure that all Government offices and schools are connected.
- 14.4 On the Human Resources Development & On Research and Development:
- 14.4.1 Capabilities of human resources in the management of wastewater shall be enhanced through training and continuous education. Work environment shall be improved and incentives provided.
 - 14.4.2 Establishment of State Water & Waste water Training Center at state level. It will help in training of human resources in this sector.
 - 14.4.3 Human resources performance will be continually appraised in order to upgrade capabilities, sustain excellence and provide job security and incentives to qualified individuals with excellent performance.
 - 14.4.4 Applied research on relevant wastewater management topics shall be adopted and promoted. Topics such as the transfer of wastewater treatment technologies, low cost wastewater treatment technologies, reduction of energy consumption and others will receive adequate support.

Shankar

[Signature]

14.4.5 Cooperation with specialized centers in the country and abroad shall be advanced, and raising of funds for this purpose shall be supported.

14.4.6 Transfer of appropriate technology suited for local conditions will be a primary target for the development activities and for adaptive research.

14.5 On Selected Priority Issues

14.5.1 To the extent that design capacities of wastewater treatment plants permit, priority of collection and house connections shall be accorded to expansion of urban areas served by treatment facilities. Users willing to contribute to the cost of the services in addition to fees and charges set by laws and regulations shall also be given priority.

14.5.2 Where design capacities of treatment facilities and of conveyance systems are approached or exceeded, priority shall be given to the expansion of such capacities.

14.5.3 Priority shall be accorded to situations and locations where waste-water disposal practices threaten the environmental integrity of freshwater resources, and where performance of cesspools and percolation pits pollute underground water aquifers.

More awareness campaigns will help to spread the work. The civic body should make it mandatory for new constructions to have a separate system to collect grey water.

15. OPERATION AND MAINTENANCE

There are several important factors that need to be considered when planning wastewater plants and options which will have a direct impact on O&M and monitoring. Since O&M aspects are important for the overall long-term success of the programme, O&M planning, including the financial provision of funds, should be included in the terms of references for the design of each plant. Furthermore, the O&M plan should be reviewed and approved along with engineering designs and specifications, including the operation and maintenance cost:

15.1 location of the wastewater treatment plants and its proximity to residential areas;

15.2 volumes and schedules of wastewater collection;

15.3 degree of mechanisation of technologies; and

15.4 final end use or disposal or reuse

15.5 running it on PPP mechanism and charging the different users

16. STATE-LEVEL IMPLEMENTATION STRATEGY

16.1 State Urban Development Agency will develop and issue a Wastewater Implementation Strategy and Plan Guidelines. These Guidelines will provide an overall state level framework, objectives, timelines and implementation plans to the ULBs. The Implementation Strategy will cover aspects such as implementation targets, framework for engagement of the private sector, training and capacity building, behavior change and social communication, M&E framework, specific roles and responsibilities of various entities, guidelines to develop ULB-level plans, and funding mechanisms.

Shukla

2

[Signature]

16.2 URB-specific Wastewater Strategy and Action Plan conforming to the State Policy will be developed by each ULB based on the State Faecal Sludge & Septage Management Implementation Strategy and Plan Guidelines.

16.3 How the policy will be executed in the in the cities/towns Three phase approach will be designed to implement the policy.

16.3.1 In the financial year 2017-18 it will be implemented in all the notified Nagar Nilgam.

16.3.2 In the financial year 2018-19 it will be implemented in all the notified Nagar Parishad.

16.3.3 In the financial year 2019-20 it will be implemented in all the notified Nagar Panchayat.

All efforts will be done to follow the execution method outlined above for the cities towns, however, depending upon the centre/state programme and budget availability the cities/towns might be chosen from any category in any financial year. Due to environmental factors the cities/towns may also be chosen out of these to implement the plan.

17. MONITORING & EVALUATION

17.1 At the state level, State Urban Development Agency (SUDA)/ Jharkhand Urban Infrastructure Development Corporation (JUIDCO) will adopt San-Benchmark framework for revised service level benchmark for sanitation that assess performance of citywide waste water recycling and sewage water treatment.

17.2 State Urban Development Agency (SUDA) / or JUIDCO will develop an M&E framework to measure cities' performance, and also devise data collection and reporting systems using indicator framework developed for San-Benchmark. This will be aligned with the 14th Finance Commission condition of publishing the service level benchmark to avail performance grant. ULBs will develop robust reporting format to track compliance of the various stakeholders with outcomes and process standards.

17.3 A cell will be created inside JUIDCO to monitor and evaluate the wastewater management operation. The cell will be created by funds from external agency funding or from the funds of 14th finance commission or through the state budget.

17.4 A Management Information System (MIS) will be developed accordingly to monitor the progress

18. TAX INCENTIVE

The tax incentive will apply in following conditions:

18.1 All the Individual Households of RWAs will treat their waste water in a decentralised manner and reuse it inside their colonies as permissible will get a rebate of 10% in the property tax.

18.2 All the new apartments which will be constructed and compulsory treat and reuse the treated waste water in their apartment, will get a 10% rebate of 10% of the construction permit fee, or Rs. 2,00,000/- (Two lakhs) whichever is less.

18.3 All the new malls, big hotels, industries, clubs, colleges, universities, hospitals, sports stadiums etc. which will be constructed will compulsory treat and reuse the treated water. In doing so they will get a rebate of 10 % of the construction permit fee, or Rs. 2,00,000/- (Two lakhs) whichever is less.

18.4 A separate head of the tax namely called 'Waste Water Tax' will be created which may be levied in the property tax for the operation and maintenance of the sewage.

19. POLICY EVALUATION:

19.1 Policy may be reviewed as and when required for assessing its effectiveness and making changes if necessary.

19.2 This policy shall come into force from the date of issue of this resolution.

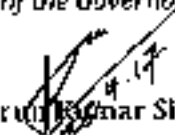
20. POWER OF THE STATE GOVERNMENT

20.1 Notwithstanding anything contained in the foregoing paragraphs of the Jharkhand WasteWater Policy, 2017 the State Government by issuance of notification in the official gazette may amend or withdraw any of the provisions and / or the schemes mentioned herein above.

20.2 Interpretation - Should any doubt arise as to the interpretation of any of the provisions of these Rules, the matter shall be referred to the Urban Development and Housing Department, whose decision thereon shall be final.

Order: It is hereby ordered that the copy of this resolution be published in the Special Gazette and wide publicity be given and circulated among all Department/ Head of the Department.

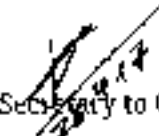
By the order of the Governor of Jharkhand,


(Arun Kumar Singh)

Principal Secretary to Government

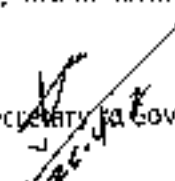
Memo No-Suda/Amrut/ WasteWater-Policy/38/2017/3889..... Ranchi, Dated. 27/4/17.

Copy to : Copy of the resolution forwarded to the Superintendent, Government Press, Jharkhand, Ranchi for publication in the forthcoming issue of Government Gazette/Nodal officer, E-Gazette, Urban Development and Housing Department, Government of Jharkhand for information and necessary action.


Principal Secretary to Government

Memo No-Suda/Amrut/ Waste Water-Policy/38/2017/3879..... Ranchi, Dated. 27/4/17.

Copy to : P.S to Minister, Urban Development and Housing Department/ All Additional Chief Secretary/ Principal Secretary/Secretary, Govt of Jharkhand/All Divisional Commissioners, Jharkhand/Director, SUDA / Director DMA/All Deputy Commissioners, Jharkhand / All Officers, UD&HD/ Municipal Commissioners/ Executive Officers/ Special Officers, urban local bodies for information and necessary action


Principal Secretary to Government

Annexure - 3

Sr. No.	Name of River	Name of ULBs	Name of Drains visited through which sewage directly discharged into the river	Approx. flow in drains (in MLD)
1	Damodar	Ramgarh Nagar Parishad	Drain near Argada village.	2
			Parsotia Nallah at Gola road Ramgarh	5
			Sahoo nallah Ramgarh	6
Total Flow				13
2	Damodar	Dhanbad Municipal Corporation	Jeetpur Nallah	30
			Jodiya Nallah	100
			Chas Nallah	15
			Domgarh Nallah	3
			ACC Jamdoba Nallah	1.5
			Sudamadih Nallah	2
			Matkuriya checkpoint Nallah (in city area ultimately discharged into Jodiya nallah)	60
			Wasseypur Nallah (in city area ultimately discharged into Jodiya nallah)	30
Total Flow				63.5 (for 4 drains)
3	Damodar	Phusro Nagar Parishad	Bermosi nallah	4
			Ghutiyatad nallah	1
			Dhorikhas nallah	2
			Joriya Pull nallah	12
Total Flow				5 (for 2 drains)

4	Garga	Chas Municipal Corporation	Drains near Gai ghat on the banks of Garga River.	3
			Drain at Medicine Gali near bridge on Garga river	2.5
			Drains at Bhojpur colony near bridge	6
			Drains at Bharra colony near bridge	2
			Drain at Bharra colony (Niche muhalla)	0.7
			Drain at Chira Chas near Pandey bridge	2
			Singar joriya nallah	12
			Total Flow	28.2
5	Subernarekha	Adityapur Municipal Corporation	JRDCL Drain	4
			Nagina Puri Drain	6
			Ram Madaiya nallah	7
			Road No. 32 Drain	7
			Saldih Drain	2
			Baba Kuti Drain	2
			Total Flow	28
6	Subernarekha	Jamshedpur NAC	Drain near Chhaya nagar bus stand (near WTP):	10
			East Plant Basti Drain	30
			510 Number Basti/ Sithgoda Drain (near CSIR-NML)	5

			Drain near old Baridih Colony	3
			Kumariya Nallah	25
			Jublie Park drain	5
			Sonari drain near Domuhani	2
			Asiana drain opposite Mandakini enclave	2
Total Flow				82
7	Subernarekha	Mango Municipal Corporation	Daiguttu Nallah	8
			Dimna Nallah	10
			Moocity Nallah	7
			Paras Nagar Nallah	6
			Gurudwara Basti Nallah	2
Total Flow				33 (for 5 nos. of drains)
8	Subernarekha	Ranchi Municipal Corporation	Drain at Tupudana Industrial area in Hatia	6
			Drain at Hatia town	1.5
			Drain at Dhurwa	4
			Drain at Patel Nagar (Ward no. 52)	8
			Drain at Hetu	6
			Ghaghra nallah	10
Total Flow				35.5

Annexure - 4



THE JHARKHAND GAZETTE EXTRAORDINARY PUBLISHED BY AUTHORITY

No. 777

25 Aashwin, 1938 (S)
Ranchi, Tuesday, 17th October, 2017

Department of Forest, Environment and Climate Change

NOTIFICATION

15 September, 2017

Notification No.- 3/PrayaPradu-52/2007/3900-- Whereas, plastic carry bags cause short-term and long-term environmental damage and health hazard;

And whereas, Article 48-A of the Constitution of India, inter alia, envisages that the State shall endeavour to protect and improve the environment;

And whereas, the Government of Jharkhand is of the opinion that, the use of plastic carry bags is causing grave and irreparable injury to the environment and the health of human beings as well as animals;

And whereas, it is observed that plastic carry bags are also causing blockage of gutters, sewers and drains resulting in serious environmental problems;

And whereas, with a view to prevent the occurrence of such problems, the State Government has decided to declare the entire area of the State of Jharkhand as the "**Plastic Carry Bags Free Area**";

Now therefore, in exercise of the powers conferred under Section 5 of the Environment (Protection) Act, 1986 (No. 29 of 1986) as delegated under Section 23 of the said Act by the Central Government vide Notification No. S.O. 352 (E) New Delhi, dated 18.04.2001, the State Government, by this notification, issues the following directions for the complete Ban of manufacture, import, storage, transportation, sale and usage of Plastic Carry bags in all parts of the state; namely,

1. No industry shall manufacture plastic carry bags and no person including a shopkeeper, vendor, wholesaler or retailer, trader, hawker or rehriwala etc., shall use

plastic carry bags for supply of goods and no person shall manufacture, store, import, sell or transport plastic carry bags in the State of Jharkhand with effect from the date of final publication of this Notification.

Provided that plastic carry bags manufactured exclusively for export purposes against any export order shall be exempted in terms of Rule 2(2) of the Plastic Waste Management Rules, 2016 from the application of this notification.

Explanation :- For the purpose of this Notification the words 'plastic' and 'carry bags' shall have the same meaning as defined under the Plastic Waste Management Rules, 2016. Containers used for packaging food material, milk and milk products and raising plants in nurseries shall not be deemed as carry bags.

2. Jharkhand State Pollution Control Board shall be responsible for enforcement in respect of the functions relevant to this notification and specified in clause (1) of Rule 12 of the Plastic Waste Management Rules, 2016, whereas the Urban Local Bodies and Gram Panchayats shall be responsible for enforcement under their jurisdictions in respect of the functions relevant to this notification and specified in clause (2) and (3) respectively of Rule 12 of the said Rules.

3. Officers as mentioned in Government of India's Notification No. S.O. 394 (E) dated 16 April, 1987 issued under Section 19 of the Environment (Protection) Act, 1986 shall be authorized to file complaints in the jurisdictional court of law against violation of directions contained in this notification.

4. From the date of final publication of this Notification, Notification No. 3/Parya.Pradush.-62/2007-3691 Van Parya., dated 11 September, 2013 shall be superseded except in respect of things done or omitted to be done before such supersession, to the extent that complaint cases filed under previous the Notification are pending.

By order of the Governor of Jharkhand,

Sunil Kumar,
Deputy Secretary to the Government.

Annexure - 5

SWM Status Report (Approved project)**August 2023**

S. No.	Name of ULB	Tender Status	Design Capacity of Plant	Processing Plant Progress Status
Existing SWM				
1	Deoghar	Work awarded	160 TPD	Completed.
2	Jhumritilaya &	Work awarded	50 TPD	Completed.
3	Koderma			
4	Chakulia	Work awarded	25 TPD	Completed.
5	Giridih	Work awarded	50 TPD	Completed.
6	Godda	Work awarded	25 TPD	Completed.
7	Bundu	Work awarded	25 TPD	Completed (Under Trial).
8	Pakur	Work awarded	25 TPD	Completed (Under Trial).
9	Khunti	Work awarded	25 TPD	Completed (Under Trial).
Under Construction SWM				
10	Mihijam	Work awarded	25 TPD	Plant Construction Overall progress 90%.
11	Madhupur	Work awarded	25 TPD	Plant Construction Overall progress 70%.
12	Chirkunda	Work awarded	25 TPD	Plant Construction Overall progress 46%.
13	Rajmahal &	Work awarded	50 TPD	Plant construction Overall progress 45%.
14	Sahebganj			
15	Saraikela	Work awarded	25 TPD	Plant Construction Overall progress 29% completed & Machine Procured. On hold due to local public hindrance on land. New land identification is under process.
16	Latehar	Work awarded	15 TPD	Plant Construction Overall progress 23%. Work Stopped by ULB due to EC.
17	Garhwa	Work awarded	50 TPD	Overall 5% work completed. Stopped due to non compliance of Statutory Clearance (EC).
18	Dhanbad	Work awarded	540 TPD	Boundary wall construction completed.
19	Chatra	Work awarded	50 TPD	Boundary wall construction completed.
20	Ranchi	Work awarded	300 TPD (150X2)	Plant construction has been started.
Proposed SWM				
21	Chas	Work awarded	150 TPD	A new land identified is under acquisition/procurement.
22	Chaibasa	Work awarded	25 TPD	A new land aquired.
23	Jamtara	Work awarded	25 TPD	Work not started due to public hindrance on land. New land identification is under process.
24	CKP	Work awarded	25 TPD	Land identification is under process.
25	Adityapur	Work awarded	300 TPD	Agreement done.
26	JNAC			
27	Mango			
28	Jugsalia			
29	Kapali			

30	Simdega	Work awarded	25 TPD	Agreement done.
31	Phusro	Work awarded	34 TPD	
32	Hazaribagh	Under Tendering Process	95 TPD	
33	Lohardaga	Work awarded	60 TPD	LOA issued, Agreement and SPV formation is under process.
34	Medininagar	Under Administrative Approval (AA).	100 TPD	Project is under Administrative Approval (AA).

SWM Status Report (DPR Stage)

S. No.	Name of ULB	DPR Status
35	Gumla	Project is under Administrative Approval (AA).
36	Ramgarh	
37	Dumka	
38	Manjhiaon	
39	Bishrampur	
40	Bansidhar Nagar	
41	Basukinath	DPR under Technical Sanction (TS).
42	Hussainabad	
43	Barharwa	
44	Dhanwar	DPR under Preparation/revision.
45	Badkisariya	
46	Domachanch	Under Re-tendering for selection of DPR Consultant.
47	Mahagama	
48	Chhatarpur	Request for Proposal (RFP) is under approval for selection of DPR Consultant.
49	Hariharganj	

Annexure - 6

**Govt. Of Jharkhand
Water Resources Department
Nepal House, Doranda, Ranchi**

Letter No- 226

/ Ranchi / Dated - 11.4.22

From,

Prashant Kumar,
Secretary

To,

Member Secretary
Jharkhand State Pollution control board, Ranchi

The director
SUDA, Govt. of Jharkhand

Sub: **Regarding compliance of directions issues by Hon'ble NGT in its order 30.11.2021 in O.A. 606/2018**

Sir,

1. Demarcation and protection of 'flood plain zones' keeping them free from encroachment:
 - As per report, only 2 flood plain zones which has been identified along the river Ganga & Damodar and the details are as follows:
 - a. Along 83 km stretch of river Ganga flowing along the Sahebganj district, there is inundation mostly in areas lying to the right of the river Ganga when its level rises during high flood. The total area which gets flooded is 54.7 square km (Flood Prone Zone). Demarcation of flood plain zone has been completed (Copy of the Certificate provided by the Chief Engineer, Deoghar is enclosed as Annexure 1).
 - b. Along 146 km stretch of river Damodar flowing along Bokaro and Dhanbad District, there is inundation mostly in areas lying to the right and left of the river Damodar when its level rises during high flood. The total area which gets flooded is 34 square km (Flood Prone Zone). Demarcation of flood plain zone has been completed (Copy of the Certificate provided by the Chief Engineer, Hazaribagh is enclosed as Annexure 2).
 - c. Action Plan for Flood Prone Zone is under formulation and shall be finalised in all respect by Aug. 2025

2. Maintenance of E-flow:

P.T.O.

- a. There is no issue regarding maintenance of E-flow of River Ganga as no dams/ barrages has been constructed or present across River Ganga within the State of Jharkhand.
 - b. Action Plan for maintenance of E Flow along the River Garga, Sankh, Damodar, Subarnarekha, Nalkari, Jumar and Konar is under preparation and will be completed by all respect upto Aug. 2024
3. Status on Ground Water Recharge:
- a. Action Plan for Ground Water Recharge is simultaneously under preparation and will be completed by all respect upto Aug. 2024
4. Rain Water Harvesting Structures & Restoration of Water Bodies: Preparation of DPR for Rain Water Harvesting Structures & Restoration of Water Bodies was taken up during 2021-2022, but due to COVID-19 pandemic formulation of DPR is under progress. It shall be finalised and implemented by Aug 2024.
5. Ground Water Quality: C.G.W.B. report is being enclosed as annexure 3

Enclosure: As stated

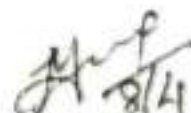

(Prashant Kumar),
Secretary

मुख्य अभियंता का कार्यालय
जल संसाधन विभाग
देवघर

पत्रांक :- 617 देवघर दिनांक :- 08.04.2022

Along 83 km stretch of river Ganga Falling under Sahebganj district, there is inundation mostly in areas lying to the right of the river Ganga when its level rises during high flood. The total area which gets flooded has been worked out around 54.47 square km. The demarcation of flood plain zone has also been done by the consultant based on recorded HFL of the river along the said stretches (Drawing enclosed). There is no report of any illegal encroachment over existing embankment of the river in the aforesaid stretch.

It is to certify that the above 54.47 Square km is Flood Prone Zone.


मुख्य अभियंता
जल संसाधन विभाग
देवघर

मुख्य अभियंता का कार्यालय,
जल संसाधन विभाग,
हजारीबाग।

क्र.सं :- 267

हजारीबाग, दिनांक :- 08/04/2022

Along 146 km Stretch of river Damodar Falling under Dhanbad and Bokaro district, there is inundation mostly in areas laying to the right and left of the river Damodar when its level rises during high flood. The total area which gets flooded has been worked out around 34 square km. The demarcation of flood plain zone has been done. On basis of HFL of the river along the said stretches (Drawing enclosed). There is no report of any illegal encroachment over existing embankment of the river in the aforesaid stretch.

It is to certify that the above 34 Square km is Flood Prone Zone.

Rajj
8.4.22
कार्यपालक अभियन्ता
तेनुघाट रीव प्रमंडल, तेनुघाट
(बोकारो)

BG
8.4.2022
(Chief Engineer)
WRD, Hazaribag

Ground Water Resources of Jharkhand- As on March 2020

Estimation of ground water resources has been carried out by CGWB, State unit office, Ranchi(MER, Patna) in association with Ground Water Directorate, WRD, Jharkhand for the state of Jharkhand based on the methodology recommended by the Ground Water Estimation Committee, 2015 (GEC, 2015). The ground water resource estimation, 2020 has been assessed considering 2019-2020 ground water year. For recharge estimation, ground water worthy areas has been considered which is also named as ground water assessment areas. About 25% of the state geographical area has been demarcated as hilly area (>20% slope).

Ground Water Resource of the state has been computed block wise and then summarized district-wise. Total Annual Ground Water Resources as on water year, 2019-2020 is 6.01 BCM. Considering natural discharge 0.49 BCM, Annual Extractable Ground Water Resources for the state of Jharkhand has been found to be 5.52 BCM. The annual ground water draft in the state of the Jharkhand is 1.64 BCM which includes irrigation draft of 0.92 BCM, domestic draft of 0.51 BCM and remaining 0.20BCM ground water use for industrial use. The average Stage of Ground Water Development as on Ground Water Year, 2019-2020 is 29.76%. The net ground water available for future development is 3.8 BCM. As per the assessment three blocks namely Bermo, Topchanchi and Golmuri-cum-Jugsalai blocks have been categorized as Over-exploited. Baliapur and Silli have been categorized as Critical, 10 blocks have been categorized as Semi-Critical and rest 244 blocks are under safe category. District wise highest Stage of development has been observed in Ranchi district (76.84%) and lowest in West-Singhbhum district (3.73%).

ITY PROBLEMS IN ASSESSMENT UNITS, 2020

E: JHARKHAND

S. No	Name of District	S. No	Name of Assessment Unit affected by Fluoride	S. No	Name of Assessment Unit affected by Arsenic	S. No	Name of Assessment Unit affected by Salinity
	Bokaro	1	Chas				
	Bokaro	2	Chandankyari				
	Bokaro	3	Peterbar				
	Dhanbad	1	BALIAPUR				
	Dhanbad	2	DHANBAD				
	GARHWA	1	BHANDARIA				
	GARHWA	2	BHAWANATHPUR				
	GARHWA	3	CHINIA				
	GARHWA	4	DANDAI				
	GARHWA	5	DHURKI				
	GARHWA	6	GARHWA				
	GARHWA	7	KANDI				
	GARHWA	8	MAJHIAON				
	GARHWA	9	MERAL				
	GARHWA	10	RAMKANDA				
	GARHWA	11	RAMNA				
	GARHWA	12	RANKA				
	GARHWA	13	UNTARI				
	GIRIDIH	1	GIRIDIH				
	GIRIDIH	2	TISRI				
	GODDA	1	BOARIJOR				
	GODDA	2	GODDA				
	GODDA	3	MAHAGAMA				
	GODDA	4	PATHARGAMA				
	GODDA	5	POREYAHAT				
	GUMLA	1	BISHUNPUR				
	GUMLA	2	CHAINPUR				
	GUMLA	3	DUMRI				
	GUMLA	4	GHAGHRA				
	GUMLA	5	GUMLA				
	GUMLA	6	SISAI				
	KHUNTI	1	KARRA				
	KHUNTI	2	MURHU				
	KODERMA	1	CHANDWARA				
	KODERMA	2	JAINAGAR				
	KODERMA	3	KODERMA				
	KODERMA	4	MARKACHHO				

KODERMA	5	SATGAWAN				
PAKUR	1	AMRAPARA				
PAKUR	2	LITIPARA				
PAKUR	3	PAKURIA				
PALAMAU	1	BISHRAMPUR				
PALAMAU	2	CHAINPUR				
PALAMAU	3	CHHATARPUR				
PALAMAU	4	DALTONGANJ				
PALAMAU	5	HARIHARGANJ				
PALAMAU	6	LESLIEGANJ				
PALAMAU	7	MANATU				
PALAMAU	8	PANDU				
PALAMAU	9	PANKI				
PALAMAU	10	PATAN				
PALAMAU	11	SATBARWA				
RANCHI	1	NAMKUM				
RANCHI	2	ORMANJHI				
RANCHI	3	SILLI				
SAHEBGANJ	1	BARHAIT				
SAHEBGANJ	2	BORIO				
SAHEBGANJ	3	RAJMAHAL	1	RAJMAHAL		
SAHEBGANJ	4	SAHEBGANJ	2	SAHEBGANJ		
SAHEBGANJ			3	UDHUA		

ABSTRACT				
Total No. of Assessed Units		Number of Assessment Unit affected by Fluoride	Number of Assessment Unit affected by Arsenic	Number of Assessment Unit affected by Salinity
260		59	3	nil

Annexure-2

Annexure-II

Chemical Quality of Ground Water during May 2017 (CGWB GW Year Book)

S. No	Dist	Block	Location	EC (in $\mu\text{mho/cm}$)	TDS	pH	CO ₃ ²⁻	HC0 ₃ ⁻	Cl ⁻	S ²⁻	NO ₃ ⁻	SO ₄ ²⁻	Fe	Cu	Mn	Zn	Pb
				mg/l	mg/l		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
1	Amritsar	Chas	Faridkot	1303	847.0	7.58	0	252.16	21.8	0.342	118	18.27	0.00	110	44.80	71.16	4.73
2		Chas	Faridkot	1327	843.88	7.78	0	270.8	21.4	0.38	130	21.30	0.00	114	44.80	75.52	4.78
3		Chas	Faridkot	346	237.8	8.18	0	180.88	7.02	0.958	3.03	14.23	0.00	40	17.15	1.75	0.07
4		Chas	Faridkot	710	476.8	7.92	0	170.8	20.87	0.813	1.66	22.95	0.00	70	34.3	22.91	0.21
5		Chas	Faridkot	781	805.8	8	0	198.48	21.4	0.657	18.8	48.79	0.00	80	40.75	88.93	1.28
6		Chas	Faridkot	1207	804.05	7.78	0	202.95	21.1	0.903	20.1	75.14	0.00	182	12.13	26.87	0.05
7		Chas	Faridkot	3490	1593.8	7.56	0	246	71.4	0.273	88.2	80.04	11.00	238	40.88	43.28	0.84
8		Chas	Faridkot	494	321.1	7.78	0	122	71.24	0.174	76.4	34.14	1.00	30	4.73	54.04	18.36
9		Chas	Faridkot	2108	1374.8	7.4	0	493.4	168	1.82	134	154.8	0.00	104	13.04	374.14	27.94
10		Chas	Faridkot	308	217.78	7.8	0	81.1	23	1.12	1.96	71.76	1.00	38	8.72	4.84	17.17
11		Chas	Faridkot	1264	788.9	8.01	0	460.82	167	1.01	8.81	32.74	0.00	10	4.73	188.41	8.41
12		Chas	Faridkot	897	644.05	8.25	0	274.75	154	0.899	48.1	71.31	0.00	30	14.23	42	3.16
13		Chas	Faridkot	776	304.4	7.43	0	175.49	101	0.244	134	44.05	0.00	40	4.73	33.3	6.74
14		Chas	Faridkot	127.8	781.7	7.78	0	468.1	129	0.421	8.76	72.11	0.00	84	13.245	98.2	9.15
15	Dharwad	Baginwadi	Baginwadi	110.7	718.45	7.7	0	348	115	0.74	8.79	86.74	0.00	71	47.848	75.08	4.35
16		Dharwad	Baginwadi	118	714	7.91	0	399.75	89.9	0.731	15.2	87.87	0.00	74	12.71	42.34	1.00
17		Dharwad	Baginwadi	882	345.8	8.05	0	147.8	44.4	0.828	8.29	71.39	0.00	44	17.21	31.29	30.43
18		Dharwad	Baginwadi	714	444.1	8.11	0	190.40	183	0.828	8.08	39.45	0.00	44	46.17	33.88	6.40
19		Dharwad	Baginwadi	464	432.3	7.8	27	194.55	47	0.894	121	71.42	0.00	78	13.78	44.34	4.78
20		Dharwad	Baginwadi	589	382.85	8.02	0	370.4	7.9	1.87	34.3	49.8	0.00	32	39.413	42	0.07
21		Dharwad	Baginwadi	720	488	8.09	0	370.4	35.3	1.83	34.4	30	0.00	74	37.445	81.34	0.07
22		Dharwad	Baginwadi	678	440.7	8.02	0	370.4	47.3	0.708	10.3	71.30	0.00	48	78.44	45.97	32.97
23		Dharwad	Baginwadi	107.8	701.35	8.05	0	378.16	85	0.878	30.1	74.38	0.00	40	37.44	147.27	4.49
24		Dharwad	Baginwadi	116.4	1277.9	8	34	381.9	177	0.478	183	81.4	0.00	180	48.55	384.74	0.91
25		Dharwad	Baginwadi	482	436.3	8.27	0	375.5	30.8	0.777	4.64	40.42	0.00	25	43.74	17.3	4.75
26		Dharwad	Baginwadi	376	171.3	8.05	0	147.8	0.85	1.84	1.17	10.71	0.00	33	73.34	3.74	6.48
27		Dharwad	Baginwadi	174.8	1279.2	8.1	0	378.2	184	0.844	34.8	72.34	0.00	104	75.4	286.74	4.79

Sl No	Stn	Block	Land Use	Kilometers in the area (km)	TSS	pH	CaCO ₃	NO ₃ ⁻	Cl ⁻	F ⁻	NO ₂ ⁻	NO ₃ ⁻	TH	Ca ²⁺	Mg ²⁺	Na	K	SO ₄	PO ₄
28		SHAN BAD	Forest	173.3	173.3	8.1	0	0.18	145	0.044	283	34.1	290	84	41.76	291.02	8.46	NA	0
29		ALJALAL	Shrub	1185	748.65	8.81	0	0.18	145	0.44	75.8	75.82	323	39	44.19	81.36	8.44	NA	0
30		JABAL	Shrub	754	477.1	8.8	0	790.48	30.8	0.158	8.78	42.73	306	70	30.378	44.85	7.38	NA	0
31		FORC	Forest	1483	1095.3	8.51	0	442.5	198	0.51	39.4	76.88	487	84	40.07	305.14	8.95	NA	0
32		FORC	Forest	743	477.25	8.31	0	116.8	154	0.386	35.7	48.91	290	84	19.44	45.55	5.49	NA	0
33		FORC	Forest	358	147.7	7.8	0	154.85	15.9	0.47	8.82	17.37	68	24	1.218	29.1	7.22	NA	0
34		FORC	Forest	488	317.2	7.8	0	158.35	17.7	0.147	39.3	27.52	190	34	24.3	31.87	7.28	NA	0.35
35		FORC	Forest	145.7	94.788	7.48	0	58.38	10.4	0.185	3.88	11.29	88	18	4.075	10.95	5.02	NA	0
36		FORC	Forest	241	156.63	7.8	0	72.23	29.3	0.237	4.83	4.55	88	14	10.935	23.42	7.19	NA	0
37		FORC	Forest	344.4	180.98	7.37	0	119.7	4.34	0.294	5.4	8.15	73	18	13.19	14.78	6.45	NA	0
38		FORC	Forest	422	371	7.81	0	18.4	30.9	0.303	49.4	10	148	34	24.3	31.87	7.28	NA	0
39		FORC	Forest	302	194.3	8.27	0	144.05	10	0.162	1.82	10.37	118	14	13.01	20.8	5.58	NA	0
40		FORC	Forest	124	63.8	7.3	0	61.5	3.1	0.1	4.3	7.1	34	3	8.1	8.9	7.4	NA	0
41		FORC	Forest	142.4	92.34	7.37	0	47.45	7.34	0.354	6.32	4.82	41	8	7.28	13.18	7.18	NA	0
42		FORC	Forest	184	48.38	7.32	0	47.45	1.9	0.157	12.3	4.17	36	9	7.28	7.4	5.78	NA	0.3
43		FORC	Forest	400	240	7.48	0	124.19	48.8	0.118	8.28	4.18	120	20	17.25	38.45	9.87	NA	0
44		FORC	Forest	125	211.35	7.48	0	84.1	38.9	0.128	29	20.17	91	16	15.34	33.56	9.15	NA	0
45		FORC	Forest	475	388.75	7.77	0	144.28	30.3	0.38	26	24.8	190	38	29.74	32	3.07	NA	0
46		FORC	Forest	144	10.9	7.81	0	42.23	3.75	0.547	8.53	8.30	75	8	12.13	11.3	1.89	NA	0
47		FORC	Forest	351	143.15	7.47	0	133.3	11.8	0.684	4.47	4.54	100	12	17.31	8.34	12.11	NA	0
48		FORC	Forest	44.3	34.15	7.82	0	34.4	7.49	0	12.3	5.89	40	4	7.28	0.88	2.85	NA	0
49		FORC	Forest	214	274.4	7.83	0	194.8	30.9	0.381	18.4	37.68	240	38	30.335	31.48	3.64	NA	0
50		FORC	Forest	174	19.4	7.83	0	194.8	15.4	0.385	12.4	1.2	118	38	14.84	11.15	1.89	NA	0
51		FORC	Forest	250	140.8	7.8	0	84.1	25.8	0.64	9.31	7.4	88	12	10.14	0.84	4.02	NA	0
52		FORC	Forest	497.3	175.56	7.81	0	19.84	16.4	0.345	6.54	8.41	88	12	10.14	0.84	4.02	NA	0
53		FORC	Forest	361	572.65	8.21	0	309.1	148	0.172	50.4	41.88	348	34	41.31	47.38	7.59	NA	0
54		FORC	Forest	1023	471.45	7.14	0	142.85	19.7	0.164	30.1	31.29	240	34	29.16	47.45	8.634	NA	0
55		FORC	Forest	197.7	118.35	8.07	0	49.3	34.2	0	8.91	4.75	48	8	10.94	17.20	1.10	NA	0
56		FORC	Forest	131.5	84.078	7.4	0	34.9	3.4	0.138	27.2	7.24	38	4	1.218	17.41	3.75	NA	0
57		FORC	Forest	118	74.7	7.38	0	34.9	4.99	0.294	19.8	0.92	49	14	23	8.39	3.48	NA	0
58		FORC	Forest	115.3	114.34	7.4	0	71.35	13.8	0.855	7.2	12.44	84	8	15.749	4.56	2.7	NA	0
59		FORC	Forest	114.5	74.48	7.84	0	49.2	8.45	0.172	7.87	3.88	38	8	4.86	11.39	0.71	NA	0
60		FORC	Forest	380	182	7.47	0	61.1	33.2	0.164	13.1	14.44	35	16	10.344	11.8	3.8	NA	0
61		FORC	Forest	332	389.3	7.47	0	47.45	75.3	0.18	30.4	4.37	190	38	8.88	11.38	2.3	NA	0
62		FORC	Forest	343	324.45	7.83	0	172.2	18.3	0.342	4.83	21.88	198	38	18.034	18.03	1.9	NA	0
63		FORC	Forest	1289	783.65	7.7	0	418.2	147	0.235	75.4	33.75	388	79	78.705	32.42	3.45	NA	0
64		FORC	Forest	1447	821.83	8	0	381.3	289	0.835	57.4	47.47	103	80	71.8	110.4	3.41	NA	0
65		FORC	Forest	458	281.7	8	0	147.8	40.3	0.544	20.2	31.65	100	38	8.885	15.12	11.5	NA	0
66		FORC	Forest	129	144.45	7.73	0	44.4	16.3	0.171	17.3	10.40	40	28	7.39	15.82	0.47	NA	0
67		FORC	Forest	181	484.8	7.57	0	33.30	2.11	0.177	2.92	3.92	35	8	3.445	7.85	0.74	NA	0
68		FORC	Forest	410	147.75	8.14	0	309.1	30.3	0.357	2.82	11.71	48	34	4.075	11.84	11.44	NA	0
69		FORC	Forest	797	318.84	8.18	0	302.95	308	0.319	8.9	44.9	171	91	20.128	40.45	1.95	NA	0
70		FORC	Forest	249	174.83	7.8	0	47.45	33.9	0.435	23.4	11.49	48	34	4.075	11.84	11.44	NA	0
71		FORC	Forest	314.3	139.3	7.44	0	19.95	14.1	0.149	18.1	9.84	80	20	7.38	11.39	1.37	NA	0
72		FORC	Forest	218	197.7	7.88	0	142.85	119	0.223	44.7	47.47	344	110	21.87	170.8	4.9	NA	0

Sl. No	Date	Block	Event loc	Expend in Rs. men x Rs. 100	Yield	pH	C.O.D.	MCOD	O	F	NO ₃ -	NO ₂ -	TH	Ca ⁺⁺	Mg ⁺⁺	Na	E	EC	PO4
73	Simdega	Jaidaga	Jaidaga	487	295.35	7.93	0	153.75	47.2	0.339	48.3	17.36	175	40	17.01	21.34	3.72	NA	0.12
74	Simdega	Barah	Kasa	348.2	348.2	7.92	0	174.35	77.3	0.364	35.4	25.46	220	56	19.44	27.34	3.07	NA	0
75	Simdega	Barah	Barah	142	92.3	7.88	0	49.08	11.9	0.113	19.8	8.4	40	10	3.445	12.18	1.98	NA	0
76	Simdega	Barah	Barah	321	208.65	7.92	0	153.75	21.3	3.12	11.1	3.44	80	24	4.86	38.25	3.75	NA	0
77	Simdega	Jaidaga	Jaidaga	847	530.58	7.96	0	215.25	149	0.345	48.2	43.20	265	72	28.818	88.04	2.36	NA	0
78	Simdega	Barah	Barah	481	312.65	7.82	0	153.3	71.9	0.339	37.8	18.53	190	57	4.86	40.29	1.83	NA	0
79	Simdega	Barah	Barah	1262	833.3	7.25	0	246	230.4	0.817	55	55.48	494	144	32.808	48.01	1.8	NA	0
80	Simdega	Barah	Barah	203	131.95	7.58	0	55.35	23.7	0.31	28.7	5.21	60	11	4.86	18	0.76	NA	0
81	Simdega	Barah	Barah	526	341.9	7.79	0	209.1	46.9	0.142	43.7	17.43	200	44	20.665	28.03	0.68	NA	0
82	Simdega	Barah	Barah	196.1	127.47	7.65	0	55.03	30.9	0.135	11.8	5.84	35	14	3.445	21.01	2.67	NA	0
83	Simdega	Barah	Barah	303	196.95	7.37	0	55.35	36.4	0.174	34.3	21.32	70	18	4.078	37.08	0.77	NA	0
84	Simdega	Jaidaga	Jaidaga	378	245.7	7.7	0	141.45	47.2	0.244	5.11	19.37	120	32	9.72	31.34	2.72	NA	0
85	Simdega	Jaidaga	Jaidaga	401	240.65	7.77	0	114.85	35.45	1.81	9.08	44.05	115	34	7.29	34.09	2.08	NA	0
86	Simdega	Jaidaga	Jaidaga	293	190.45	7.97	0	84.1	36.8	0.203	20.6	22.65	95	28	4.075	19.38	2.6	NA	0
87	Simdega	Jaidaga	Jaidaga	240	156	7.68	0	110.7	22	0.211	4.17	5.82	70	22	3.445	24.11	1.24	NA	0
88	Simdega	Jaidaga	Jaidaga	448	291.2	7.71	0	172.2	47.3	0.703	6.79	31.09	143	44	8.501	15.55	1.54	NA	0
89	Simdega	Jaidaga	Jaidaga	286	182	7.72	0	114.85	23.7	0.577	11	10.92	70	20	4.86	34.03	3.36	NA	0
90	Simdega	Jaidaga	Jaidaga	748	486	7.7	0	269	41	0.1	5.4	4.1	30	10	19.4	28	0.4	NA	0
91	Simdega	Jaidaga	Jaidaga	848	564.2	7.44	0	209.1	57.2	0.324	84.4	79.43	275	88	13.345	75.31	2.25	NA	0
92	Simdega	Jaidaga	Jaidaga	375	243.75	7.58	0	215.25	1.22	0.340	3.44	3.87	140	44	10.935	17.64	1.91	NA	0
93	Simdega	Jaidaga	Jaidaga	314	204.1	7.68	0	141.45	14	0.147	13.5	8.05	145	34	13.345	9.79	1.48	NA	0
94	Simdega	Jaidaga	Jaidaga	590	383.5	7.45	0	191.8	21.2	0.31	52.6	44.43	220	42	13.795	38.68	8.72	NA	0
95	Simdega	Jaidaga	Jaidaga	234	153.4	6.31	0	34.6	34.7	0	54.8	3.51	40	12	7.29	33.3	3.54	NA	0
96	Simdega	Jaidaga	Jaidaga	710	441.5	7.61	0	365.55	10.4	0.903	17.8	7.87	265	64	24.3	41.18	1.59	NA	0
97	Simdega	Jaidaga	Jaidaga	355	230.75	7.04	0	110.7	33.4	0	48.7	5.53	125	30	12.15	30.22	1.42	NA	0
98	Simdega	Jaidaga	Jaidaga	413	267.8	7.69	0	153.75	35.7	0	8.52	3.25	115	44	1.213	38.42	13.1	NA	0
99	Simdega	Jaidaga	Jaidaga	846	542.25	8.02	0	319.8	49.7	0.345	73.1	4.27	295	82	21.87	62.49	1.62	NA	0
100	Simdega	Jaidaga	Jaidaga	812	527.8	7.49	0	282.9	88.5	0.437	8.88	4.74	365	72	30.375	41.49	2	NA	0
101	Simdega	Jaidaga	Jaidaga	767	498.55	8.04	0	365.85	16	0.398	33.5	9.01	270	80	17.01	22.25	40.6	NA	0
102	Simdega	Jaidaga	Jaidaga	1238	804.7	7.5	0	399.75	136	0.501	61.9	5.44	389	124	18.225	78.73	4.67	NA	0
103	Simdega	Jaidaga	Jaidaga	894	581.1	7.9	0	365.85	47.35	0.848	26	4.38	265	54	36.45	78.83	11.47	NA	0
104	Simdega	Jaidaga	Jaidaga	490	318.5	7.4	0	141.45	44.9	0.115	46.7	4.27	115	36	4.075	35.84	40.27	NA	0
105	Simdega	Jaidaga	Jaidaga	580	377	7.9	0	215	35	0.3	15	34	21	42	36.7	32	22	NA	0
106	Simdega	Jaidaga	Jaidaga	531	315.15	7.8	0	124.15	14.2	0.313	52.2	4.49	100	32	1.84	22.84	2.3	NA	0
107	Simdega	Jaidaga	Jaidaga	828	536.2	7.87	0	365.85	50.6	0.254	18	1.32	375	74	44.995	17.3	0.3	NA	0
108	Simdega	Jaidaga	Jaidaga	208	147.7	7.91	0	123	17.72	0.352	4.2	3.77	100	24	9.72	14.75	2.72	NA	0.13
109	Simdega	Jaidaga	Jaidaga	540	344	7.77	0	221.4	48.3	0.281	5.82	3.67	190	42	26.655	29.49	2.14	NA	0
110	Simdega	Jaidaga	Jaidaga	1554	860.1	7.67	0	448.95	141.3	0.539	49.8	4.54	305	80	25.51	142.05	3.09	NA	0

Sl. No	Dist	Block	Localities	Area in ha	Yield	pH	C.O.D.	MCOD	Q	P	MOB	MOGS	TH	Ca++	Mg++	Na	E	MOG	PO4
111		Jamun estuar	Sundarban	1143	742.95	7.97	134.7	354.7	134.7	0.398	43	3.44	349	122	12.15	80.3	24.1	N.A	0
112		Jamun estuar	Pid a	1338	804.7	7.46	64.8	553.1	64.8	2.21	24.7	3.04	180	42	18.225	204.65	1.34	N.A	0
113		Chakula	And hola	290	188.5	7.87	104.55	12.6	104.55	0.145	30.3	3.73	110	22	13.345	13.54	4.78	N.A	0
114		Chakula	Jabir dha	356	231.7	7.45	153.75	37	153.75	0	14.7	4.61	95	30	4.64	40.54	1.97	N.A	0
115		Chakula	Kan dha	198	128.7	7.31	49.2	49.2	49.2	0	21.5	4.64	58	14	4.84	9.48	18.74	N.A	0
116		Chakula	Chakula	768	512.2	7.25	252.15	94.2	252.15	0.243	10.8	3.04	305	84	23.065	33.89	1.39	N.A	0
117		Chakula	Chakula	810	524.5	8.01	344.45	98.8	344.45	0.353	32.8	4.24	320	78	30.375	42.35	1.9	N.A	0
118		Jamun estuar	Bin a Nag	441	418.65	7.94	207.5	207.5	207.5	0.734	8.17	4.78	227	49	25.31	32.09	0.42	N.A	0
119		Jamun estuar	Bin a Nag	768	512	7.9	350	350	350	0.4	7.7	4.3	24	84	13.3	54	0.9	N.A	0
120		Jamun estuar	Bin a Nag	331	215.15	7.8	129.15	14.3	129.15	0.213	52.2	4.49	100	32	4.84	22.84	2.3	N.A	0
121		Chakula	Polka	858	538.2	7.87	350.55	80.4	350.55	0.284	16	3.32	375	76	44.958	17.5	0.3	N.A	0
122		Polka	Ran tin	258	167.7	7.91	123	123	123	0.352	6.2	3.77	100	34	9.72	14.75	2.72	N.A	0.13
123		Jagat di	Man	540	344	7.72	221.4	221.4	221.4	0.287	5.82	3.47	190	42	20.455	29.49	2.14	N.A	0
124		Jagat di	Man	1354	880.1	7.67	448.95	145.3	448.95	0.639	49.8	4.54	305	80	25.31	143.05	3.09	N.A	0
125		Jamun estuar	Sundarban	1143	742.95	7.97	134.7	354.7	134.7	0.398	43	3.44	349	122	12.15	80.3	24.1	N.A	0
126		Jamun estuar	Pid a	1238	804.7	7.98	64.8	553.1	64.8	2.21	24.7	3.04	180	42	18.225	204.65	1.34	N.A	0
127		Chakula	And hola	290	188.5	7.87	104.55	12.6	104.55	0.145	30.3	3.73	110	22	13.345	13.54	4.78	N.A	0
128		Chakula	Jabir dha	356	231.7	7.45	153.75	37	153.75	0	14.7	4.61	95	30	4.64	40.54	1.97	N.A	0
129		Chakula	Kan dha	198	128.7	7.31	49.2	49.2	49.2	0	21.5	4.64	58	14	4.84	9.48	18.74	N.A	0
130		Chakula	Chakula	768	512.2	7.25	252.15	94.2	252.15	0.243	10.8	3.04	305	84	23.065	33.89	1.39	N.A	0
131		Chakula	Chakula	810	524.5	8.01	344.45	98.8	344.45	0.353	32.8	4.24	320	78	30.375	42.35	1.9	N.A	0
132		Jamun estuar	Bin a Nag	441	418.65	7.94	207.5	207.5	207.5	0.734	8.17	4.78	227	49	25.31	32.09	0.42	N.A	0
133		Jamun	Man	768	512	7.9	350	350	350	0.4	7.7	4.3	24	84	13.3	54	0.9	N.A	0
134		estuar	Man	2	2	5	55	55	55	1	41	3	5	5	45	83	5	N.A	0
135		Chakula	Chakula	244	173.9	6.87	18.45	18.45	18.45	0	14.7	2.04	90	26	4.84	10.25	8.14	N.A	0
136		Chakula	Chakula	780	507	7.84	221.4	221.4	221.4	0.372	113	1.81	310	82	25.31	35.47	1.34	N.A	0
137		Chakula	Chakula	890	552.5	8.22	344.4	344.4	344.4	0.393	18.3	1.48	210	34	18.225	49.82	38	N.A	0
138		Chakula	Chakula	641	519.45	8.04	301.33	97.4	301.33	0.374	14.2	3.18	275	45	24.75	78.37	1.49	N.A	0
139		Chakula	Chakula	1270	1180.5	7.64	405.9	310	405.9	0.394	14	22.96	450	68	68.04	141.8	13.19	N.A	0
140		Chakula	Chakula	524	340.4	8.07	152.75	46.9	152.75	0.317	33.5	19.51	170	48	12.15	41.5	3.74	N.A	0
141		Chakula	Chakula	983	638.95	8.26	332.1	77.4	332.1	0.3	10.5	15.51	349	62	47.19	39.53	2.27	N.A	0
142		Chakula	Chakula	773	502.45	8.26	276.75	55.5	276.75	0.271	52.1	6.37	295	60	35.235	51.25	4.3	N.A	0
143		Chakula	Chakula	377	245.05	8.39	180.45	49.8	180.45	0.214	4.88	4.35	140	32	14.38	27.78	5.48	N.A	0
144		Chakula	Chakula	431	280.15	8.14	178.35	30.6	178.35	0.312	6.99	2	140	44	12.15	31.4	1.84	N.A	0
145		Chakula	Chakula	454	285.1	7.94	198.35	98.7	198.35	0.294	53.5	12.39	235	64	17.81	31.29	0.44	N.A	0
146		Chakula	Chakula	258	167.7	8.11	7.68	0.341	7.68	0.341	6.39	11.41	135	32	13.345	21	3.31	N.A	0
147		Chakula	Chakula	338	219.7	8.13	147.6	30.9	147.6	0.143	7.04	27.95	110	30	8.908	38.32	4.17	N.A	0
148		Chakula	Chakula	544	353.4	7.64	18.4	18.4	18.4	0.127	58.4	41.23	195	42	19.44	55.1	1.18	N.A	0
149		Chakula	Chakula	547	355.65	7.97	194.8	41.9	194.8	0.305	4.14	31.54	220	44	26.73	36	0.3	N.A	0

SL No	Dist	Block	Location	Size in ha as per BRC	Yield	pH	C.O.D.	MC.D.	Q.	P.	MO.B.	MO.D.	TH	Ca.3+	Mg.3+	Na	K	SO2	PO4
140	Angkor	Angkor	Angkor	100	302.85	8.19	0	172.2	37.7	0.900	26.3	41.34	280	40	34.45	24.39	1.82	25	9
141	Angkor	Angkor	Angkor	204	194	8	0	141.48	8.7	0.8	18	38	13	38	13.3	17	1.6	27	1
142	Angkor	Angkor	Angkor	409	421.85	7.9	0	147.6	77.4	0.835	44.8	32.27	148	40	15.798	89	2.45	22	0
143	Angkor	Angkor	Angkor	315	139.75	7.83	0	104.55	7.05	0.454	33.8	9.92	130	18	18.225	12	1.7	17	0
144	Angkor	Angkor	Angkor	352	228.8	7.77	0	98.4	53.17	0.345	15.2	22.07	90	20	9.72	44	0.8	18	0
145	Angkor	Angkor	Angkor	344	228.8	8.17	0	94.09	31.9	1.00	8.09	40.13	90	18	10.935	30	1.98	11	0
146	Angkor	Angkor	Angkor	112.4	73.15	7.84	0	55.35	3.1	0.514	6.77	9.25	55	8	8.505	8	0.7	10	0
147	Angkor	Angkor	Angkor	373	242.45	7.84	0	75.84	80.5	0.333	80.2	12.58	130	38	12.18	18	0.9	18.4	0
148	Angkor	Angkor	Angkor	411	297.15	7.77	0	144.05	45.4	0.497	17.7	75.6	240	46	30.375	35	0.81	22.9	0
149	Angkor	Angkor	Angkor	343	243.95	8.05	0	129.15	71.5	0.343	22.8	57.84	195	34	25.515	41.4	1.12	25	0
150	Angkor	Angkor	Angkor	153.1	101.08	7.8	0	47.65	0.392	0.375	21.1	8.85	55	14	4.86	9	1.2	13	0
151	Angkor	Angkor	Angkor	383	183.95	7.16	0	55.35	49.63	0.32	31.3	10.37	90	18	10.935	27	0.44	29	0
152	Angkor	Angkor	Angkor	924	400.6	8.23	0	178.35	126	0.406	44	64.38	325	80	30.375	49	1.2	22	0
153	Angkor	Angkor	Angkor	383	144.45	7.9	0	73.8	32.9	0.724	12.5	11.42	90	24	7.29	17	2.24	18.1	0
154	Angkor	Angkor	Angkor	134.4	86.44	7.69	0	49.2	10.63	0.291	1.44	8.6	50	14	3.44	6	0.3	15.3	0
155	Angkor	Angkor	Angkor	276	179.4	8.1	0	135.3	8.49	0.897	16.2	10.34	80	22	4.07	34.2	1.8	21.4	0
156	Angkor	Angkor	Angkor	487	317.81	8.1	0	98.4	75	0.392	12.2	41.97	170	40	17.01	33.43	1.34	27.3	0
157	Angkor	Angkor	Angkor	487	297.85	8.05	0	110.7	54	0.474	43.7	25.35	160	48	14.58	24.3	0.63	22.9	0
158	Angkor	Angkor	Angkor	383	183.95	7.78	0	55.35	19.3	0.441	22.9	17	75	28	1.215	17.26	3.95	18.5	0
159	Angkor	Angkor	Angkor	343	183.95	8.04	0	129.15	35.4	0.621	4.74	25.02	130	28	14.58	12	0.8	22	0
160	Angkor	Angkor	Angkor	343	172.25	7.77	0	114.81	7.44	0.431	5.3	14.85	90	22	8.5	19.2	0.46	13.7	0
161	Angkor	Angkor	Angkor	1124	730.3	7.84	0	258.3	154	0.329	65.3	71.49	285	48	27.945	116.4	8.82	34.2	0
162	Angkor	Angkor	Angkor	264	191.1	7.84	0	73.8	35.45	0.962	42.7	10.05	75	18	7.29	32.8	2.85	14.6	0
163	Angkor	Angkor	Angkor	373	301.8	7.34	0	84.3	107	0.449	51.3	54.92	210	38	34.02	72	2.89	7.15	0
164	Angkor	Angkor	Angkor	412	202.6	7.15	0	130.3	49.43	0.35	1.34	37.25	185	42	19.44	31.8	3.54	17.2	0
165	Angkor	Angkor	Angkor	916	394.7	8.38	0	227.85	110	0.461	41.2	77.29	225	40	18.225	94.82	11.82	14.3	0
166	Angkor	Angkor	Angkor	344	225.4	7.15	0	84.1	32.1	1.44	1.3	34.96	130	24	15.79	13	3.3	15.2	0
167	Angkor	Angkor	Angkor	458	295.7	7.9	0	114.35	53	0.685	28.2	34.95	165	30	21.87	26.8	0.83	24.4	0
168	Angkor	Angkor	Angkor	432	246.8	8	0	114.65	54.8	0.419	14.5	27.54	175	38	19.44	21.4	0.45	21.8	0
169	Angkor	Angkor	Angkor	931	418.15	8.34	0	229.85	124	0.483	40.9	71.39	275	80	18.225	110.2	1.97	14.9	0
170	Angkor	Angkor	Angkor	1075	497.45	7.78	0	393.6	81.53	0.34	20.8	30.84	245	84	20.555	103.2	3.28	31.1	0
171	Angkor	Angkor	Angkor	488	217.2	7.89	0	221.4	20.4	0.242	3.03	9.5	85	6	9.73	74.5	4.2	30	0
172	Angkor	Angkor	Angkor	492	319.8	7.15	0	139.9	42.3	1.48	1.93	49.72	185	44	17.01	28.4	3.4	24.7	0
173	Angkor	Angkor	Angkor	344	171.8	7.92	0	129.15	0.244	0.244	4.01	8.73	85	6	9.72	30.6	4.23	17	0
174	Angkor	Angkor	Angkor	354	227.4	8.14	0	178.35	35.45	0.328	1.86	15.44	115	38	4.86	34	2.93	8	0
175	Angkor	Angkor	Angkor	383	131.85	7.89	0	144.05	19.8	0.352	15	8.3	75	18	7.29	45	2.97	10	0
176	Angkor	Angkor	Angkor	295	140.7	7.72	0	178.35	19.8	0.438	4.15	21.17	120	34	8.303	29.78	0.5	14.3	0
177	Angkor	Angkor	Angkor	295	130.45	7.38	0	92.85	14.51	0.439	3.54	14.51	80	24	3.44	9.4	1.3	8.14	0
178	Angkor	Angkor	Angkor	492	319.8	7.34	0	211.35	74.44	0.46	4.11	44.57	224	54	20.555	58.7	1.79	26.8	0
179	Angkor	Angkor	Angkor	819	332.35	7.11	0	171.35	118	0.948	17.4	74.84	291	84	19.44	53.74	2.7	24.1	0

SL. No.	Date	Block	Location	SL. No. in the same s/s as in BSC	Yield	pH	CO ₂ -S	MC ₂ S	Cl-	P	NO ₃ -	SO ₄ -	TR	Ca ²⁺	Mg ²⁺	Na	K	MOE	PO ₄
191		Haripur zone	Field station	345	224.25	8.2	0	88.55	74.64	0.319	18.2	37.18	160	34	18.22	14.65	1.8	24.1	0
192		Haripur zone	Charanpur	424	274.9	8.27	0	144.05	31.9	0.257	14.4	18.3	90	18	10.955	55.2	5.09	27	0
193		Haripur zone	Haripur	425	274.85	7.74	0	110.7	38.3	0.389	28.8	59.91	110	24	12.15	48.3	1.97	22.5	0
194		Haripur zone	Sum	145	100.75	7.21	0	79.95	3.53	0.243	1.21	11.91	45	14	1.21	15.2	1.2	8.94	0

Annexure - 7

कृषि निदेशालय, झारखण्ड, राँची

पत्रांक: 01/PMKSY/NGT-04/2020-21 1803

राँची, दिनांक: 06.04.2022

प्रेषक,

उप कृषि निदेशक (योजना),
झारखण्ड, राँची।

सेवा में,

सरकार के अवर सचिव,
कृषि, पशुपालन एवं सहकारिता विभाग,
झारखण्ड, राँची।

विषय: माननीय NGT वाद O.A.No -606/2018 में दिनांक 30.11.2021 को पारित आदेश के अनुपालन के संबंध में।

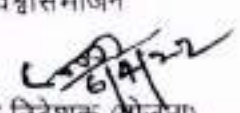
प्रसंग: विभागीय पत्रांक 766 दिनांक 05.04.2022।

महाशय,

उपर्युक्त प्रासंगिक विषय के संबंध में कहना है कि माननीय NGT वाद O.A.No -606/2018 में दिनांक 30.11.2021 को पारित आदेश के अनुपालन प्रतिवेदन इस पत्र के साथ संलग्न कर भेजी जा रही है।

अनुलग्नक: यथोक्त।

विश्वासभाजन


उप कृषि निदेशक (योजना),
झारखण्ड, राँची।

Jharkhand

- Micro Irrigation coverage: under PMKSY-PDMC.
- Allocation 2021-22 under PDMC: Rs 50.00 Crore (Rs 30.00 Crore released)
- No. of Namami Gange Districts covered: One district (Sahibganj).

Year	Target			Achievement		
	Beneficiary	Area (ha.)	Amount (in lakh)	Beneficiary	Area (ha)	Amount (in lakh)
2017-18	-	-	-	-	-	-
2018-19	-	-	-	-	-	-
2019-20	-	-	-	-	-	-
2020-21	-	-	-	-	-	-
2021-22	250	100	129	92	39.25	56.91944
Total	250	100	129	92	39.25	56.91944

*Achievement as on March 2022.


Deputy Director,
(Agriculture Planning)
Jharkhand, Ranchi.

Stamp



Organic Farming Authority of Jharkhand

ऑर्गेनिक फार्मिंग अथॉरिटी ऑफ झारखण्ड

कृषि, पशुपालन एवं सहकारिता विभाग, झारखण्ड सरकार

Krishni Bhawan, Kanke Road, Ranchi - 834008; www.organicjharkhand.in

Email : organicjharkhand2012@gmail.com / ofaj2012@rediffmail.com



पत्रांक:

दिनांक:

प्रेषक,

मुख्य कार्यपालक पदाधिकारी,
ओफाज, राँची।

सेवा में,

राघवेन्द्र झा,
सरकार के अवर सचिव,
कृषि, पशुपालन एवं सहकारिता विभाग (कृषि प्रभाग),
झारखण्ड, राँची।

विषय:- माननीय NGT वॉर्ड O.A.No.606/2018 Dt. 30.11.2018 को पारित आदेश के अनुपालन के सम्बन्ध में।

प्रसंग: विभागीय पत्रांक 766 दिनांक 05.04.2022, वन, पर्यावरण एवं जलवायु परिवर्तन विभाग का पत्रांक 1058 दिनांक 01.04.2022, राज्यादेश संख्या 41 दिनांक 09.02.2021।

महोदय,

उपरोक्त प्रसंगाधीन विषय के संबंध में कहना है कि वित्तीय वर्ष 2021-22 में राज्यादेश संख्या 41 दिनांक 09.02.2021 के माध्यम से स्वीकृत तृतीय जैविक खेती के प्रमाणीकरण की योजनान्तर्गत माननीय NGT में दायर Principal Bench, New Delhi में दायर O.A. No. 606/2018 Dt. 30.11.2018 में पारित आदेश के अनुपालन हेतु राज्य के सर्वाधिक प्रदूषित नदियाँ यथा- गंगा, दामोदर, स्वर्णरेखा, जुमार, खरकई, नलकरी, के तटवर्ती ग्राम पंचायतों में जैविक खेती को प्रोत्साहित किया जा रहा है।

विभागीय राज्यादेश की कंडिका 11 निम्नवत् है "इस योजना के लाभ हेतु वैसे भूमि को प्राथमिकता दी जायेगी जहाँ रासायनिक खादों का प्रयोग कम से कम हो रहा हो।"

उक्त के आलोक में ओफाज के द्वारा योजना कार्यान्वयन किया जा रहा है, तथा माननीय NGT के अनुसार राज्य के सर्वाधिक प्रदूषित नदियों (गंगा, दामोदर, स्वर्णरेखा, जुमार, खरकई, नलकरी) के तटवर्ती ग्राम पंचायतों में जैविक खेती को प्रोत्साहित जा रही है।

अनुलग्नक: यद्योपरि, राज्य के अन्य सर्वाधिक प्रदूषित नदियों के तटवर्ती ग्राम पंचायतों में जैविक खेती से संबंधित संचालित योजनाओं की विवरणी।

विकासभाजन,
06/04/22
मुख्य कार्यपालक पदाधिकारी,
ओफाज, राँची।
06/04/22

- सोशल डिस्टेंसिंग का पालन करें। घर से बाहर निकलने पर मास्क का प्रयोग अवश्य करें। निर्दिष्ट अंतरांतर पर हाथों पर सेबेन/डिजिटलिस का प्रयोग, जब तक ठाढ़ नहीं तब तक धिमाई नहीं।

B. Development of 5 Clusters each in 19 Aspirational Districts under PKVY in Jharkhand (Centrally Sponsored Scheme)

- Govt. of India has sanctioned 95.931 Lakhs for Govt. of India has sanctioned 95.931 Lakhs for Development of 5 Clusters each in 19 Aspirational Districts under Paramparagat Krishi Vikas Yojna, vide letter no- 9-24/2020-Org. Fmg. dated 16-09-2020.
- Sanction Order and Allotment is issued.
- Details of Clusters in Districts most affected by Polluted Rivers.

Details of Clusters in Districts affected by polluted rivers.

SL No.	Districts	Total no. of Clusters (20 ha each)	Total Area (Ha)	Remarks
1	Bokaro	5	100	Selection of RC/ Facilitating Agency is under process. Work will be started in this FY.
2	Sahebganj	5	100	
3	Ranchi	5	100	
4	Latehar	5	100	
5	Palamu	5	100	
6	East Singhbhum	5	100	
7	Simdega	5	100	
8	Ramgarh	5	100	
Total		40	800	

MW

2

C. BPKP 6 Clusters (Centrally Sponsored Scheme)

- Govt. of India has sanctioned 54.1 Lakhs for vide letter no- 9-49/2020-Org. Fmg, dated 02-12-2020.
- Sanction Order and Allotment is issued.

Details of Clusters in Districts most affected by Polluted Rivers.

SL No.	Districts	Total no. of Clusters	Total Area (Ha)	Remarks
1	Ranchi	4	2060	Selection of RC/ Facilitating Agency is under process. Work will be started in this FY.
2	Ramgarh	2	1340	
Total		6	3400	

MDW

G

New Plans to be taken in the catchment area of the most polluted rivers in Jharkhand.

**Namami Gange Clean Abhiyan under Swakshata Action Plan (SAP)
(Centrally Sponsored Scheme)**

- Name of Scheme : Namami Gange Project (Scheme under Swakshata Action Plan-SAP)
- Physical Target : 27 Clusters (By the banks of River Ganga in Sagebganj District)
- Total Area : 1350 Acre
- Financial Target : 407.6865 Lakhs (for 3 Years, Funding through RKVY)
- Project Duration : 3 Years

1- Scheme to be implemented as per old PKVY Guideline.

2- Sanction Order and Allotment is in process

Mand *a*

A. PKVY 750 Clusters (Centrally Sponsored Scheme)

- Name of Scheme : Paramparagat Krishi Vikas Yojna
- Physical Target : 750 Clusters/Groups (15000 ha) Approval vide govt. of India Letter no. 9-53/2015 Org Fmg dated 12.06.2018
- Financial Target : 7650 Lakhs (for 3 Years)
- Project Duration : 3 Years
- District to be covered : Ranchi, Ramgarh, Hazaribagh, Deoghar, Saraikela, Giridih, Dumka, Bokaro, Sahebganj & Jamtara

- 1- Scheme to be implemented as per new PKVY Guideline.
- 2- 757.35 Lakhs has been released as 1st installment of Central Share vide GoI letter No- F. No- 9-53/2015- Org. Fmg. Dated 30-09-2020
- 3- 3 Year work plan has been approved by SLEC-PKVY headed by Secretary Agriculture.
- 4- Sanction order and allotment issued.

Details of Clusters in Districts affected by polluted rivers.

Sl No.	Districts	No. of Clusters	Area (ha)	Remarks
01	Ranchi	90	1800	Selection of Farmers and area is under progress.
02	Saraikela	90	1800	
03	Sahebganj	90	1800	
04	Ramgarh	60	1200	
05	Bokaro	60	1200	
Total		390	7800	

Mur

a



झारखण्ड सरकार
कृषि, पशुपालन एवं सहकारिता
विभाग, (कृषि प्रभाग)

द्वितीय तल, कृषि भवन, कॉलेज रोड,
राँची, झारखण्ड-834008

E-Mail- directorsoiljkr@gmail.com
Phone No.- 0651-2232690

भूमि संरक्षण निदेशालय, झारखण्ड, राँची

पत्रांक:- 183

-/राँची, दिनांक:- 06.04.2022

प्रेषक,

निदेशक,
भूमि संरक्षण, झारखण्ड, राँची,

सेवा में,

श्री राघवेन्द्र झा,
सरकार के अवर सचिव,
कृषि, पशुपालन एवं सहकारिता विभाग (कृषि प्रभाग),
झारखण्ड, राँची।

विषय:- माननीय NGT वाद O.A.No.-606/2018 में दिनांक 30.11.2021 को पारित आदेश के अनुपालन के संबंध में।

प्रसंग:- विभागीय पत्रांक-766 दिनांक 05.04.2022

महाशय,

उपर्युक्त प्रासंगिक विषय में माननीय NGT वाद O.A.No.-606/2018 में दिनांक 30.11.2021 को पारित आदेश के अनुपालन के संबंध में कहना है कि Soil Erosion (भूमि क्षरण) के कारण होने वाले जल प्रदूषण को रोकने के उद्देश्य से भूमि संरक्षण निदेशालय के द्वारा राज्य के सभी जिला में बड़े तालाबों का जीर्णोद्धार/गहरीकरण तथा छोटे नये तालाब (परकोलेशन टैंक) का निर्माण विगत वर्षों से किया जा रहा है। विगत पाँच वर्षों में लगभग 5907 बड़े तालाबों का जीर्णोद्धार/गहरीकरण का कार्य किया गया है तथा लगभग 3942 छोटे नये तालाब (परकोलेशन टैंक) का निर्माण किया गया है।

अतः यह आपके सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

विश्वासभाजन,

निदेशक,

भूमि संरक्षण, झारखण्ड, राँची।

कृषि निदेशालय, झारखण्ड, राँची

पत्रांक: 01/PMKSY/NGT-04/2020-21 1803

राँची, दिनांक: 06.04.2022

प्रेषक,

उप कृषि निदेशक (योजना),
झारखण्ड, राँची।

सेवा में

सरकार के अवर सचिव,
कृषि, पशुपालन एवं सहकारिता विभाग,
झारखण्ड, राँची।

विषय: माननीय NGT वाद O.A.No.-606/2018 में दिनांक 30.11.2021 को पारित आदेश के अनुपालन के संबंध में।

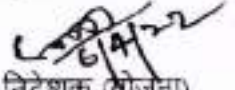
प्रसंग: विभागीय पत्रांक 766 दिनांक 05.04.2022।

महाशय,

उपर्युक्त प्रासंगिक विषय के संबंध में कहना है कि माननीय NGT वाद O.A.No.-606/2018 में दिनांक 30.11.2021 को पारित आदेश के अनुपालन प्रतिवेदन इस पत्र के साथ संलग्न कर भेजी जा रही है।

अनुलग्नक: यथोक्त।

विश्वासभाजन


उप कृषि निदेशक (योजना),
झारखण्ड, राँची।

Jharkhand

- Micro Irrigation coverage: under PMKSY-PDMC.
- Allocation 2021-22 under PDMC: Rs 50.00 Crore (Rs 30.00 Crore released)
- No. of Namami Gange Districts covered: One district (Sahibganj).

Year	Target			Achievement		
	Beneficiary	Area (ha.)	Amount (in lakh)	Beneficiary	Area (ha)	Amount (in lakh)
2017-18	-	-	-	-	-	-
2018-19	-	-	-	-	-	-
2019-20	-	-	-	-	-	-
2020-21	-	-	-	-	-	-
2021-22	250	100	129	92	39.25	56.91944
Total	250	100	129	92	39.25	56.91944

*Achievement as on March 2022.


Deputy Director
(Agriculture Planning)
Jharkhand, Ranchi

Stamp



झारखण्ड सरकार
कृषि, पशुपालन एवं सहकारिता
विभाग, (कृषि प्रभाग)

द्वितीय तल, कृषि भवन, कॉलोनी रोड,
राँची, झारखण्ड-834008

E-Mail- directorsoiljhr@gmail.com
Phone No.- 0651-2232690

भूमि संरक्षण निदेशालय, झारखण्ड, राँची

पत्रांक:- 183

-/राँची, दिनांक:- 06.04.2022

प्रेषक,

निदेशक,
भूमि संरक्षण, झारखण्ड, राँची,

सेवा में,

श्री राघवेन्द्र झा,
सरकार के अवर सचिव,
कृषि, पशुपालन एवं सहकारिता विभाग (कृषि प्रभाग),
झारखण्ड, राँची।

विषय:- माननीय NGT वाद O.A.No.-606/2018 में दिनांक 30.11.2021 को पारित आदेश के अनुपालन के संबंध में।

प्रसंग:- विभागीय पत्रांक-766 दिनांक 05.04.2022

महाशय,

उपर्युक्त प्रासंगिक विषय में माननीय NGT वाद O.A.No.-606/2018 में दिनांक 30.11.2021 को पारित आदेश के अनुपालन के संबंध में कहना है कि Soil Erosion (भूमि क्षरण) के कारण होने वाले जल प्रदूषण को रोकने के उद्देश्य से भूमि संरक्षण निदेशालय के द्वारा राज्य के सभी जिला में बड़े तालाबों का जीर्णोद्धार/गहरीकरण तथा छोटे नये तालाब (परकोलेशन टैंक) का निर्माण विगत वर्षों से किया जा रहा है। विगत पाँच वर्षों में लगभग 5907 बड़े तालाबों का जीर्णोद्धार/गहरीकरण का कार्य किया गया है तथा लगभग 3942 छोटे नये तालाब (परकोलेशन टैंक) का निर्माण किया गया है।

अतः यह आपके सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

विश्वासभाजन,

निदेशक,

भूमि संरक्षण, झारखण्ड, राँची।

Annexure - 8



JHARKHAND STATE POLLUTION CONTROL BOARD

CENTRAL LABORATORY, MANO BALRAM BHWAN, HATIA, RANCHI-834003

Analysis report of Swarnrekha river basin, Brahmini river Basin under NWMP of July, 2023

Lab Ref. No.	Name of the sampling point.	Date/time of sample collected	Temp A/W in °C	D.O. mg/lit	pH Value	BOD mg/lit	T.C. MP N	F.C MP	Alk mg/lit	Cl- mg/lit	COD mg/lit	T.H. mg/lit	Ca++ mg/lit	Mg++ mg/lit	TDS mg/lit	T.S. mg/lit	TSS mg/lit	Acidity mg/lit
407/23	River Swarnrekha, Near Intake Well, Hatia Railway	19.07.2023	34.0/22.0	4.0	6.6	2.1	-	-	84	16	52	122	33.6	9.27	252	308	46	6
4750	River Swarnrekha, Near Oberia Road Bridge, Hatia, Ranchi	12.10 PM	32.0/19.0	3.2	6.5	2.6	-	-	82	20	44	126	33.6	10.248	318	378	60	6
4752	River Hammu, Near Hammu Bridge, Hammu, Ranchi	19.07.2023	35.0/20.0	2.9	6.5	11.7	-	-	80	18	188	124	36.8	7.800	422	484	62	6
4753	River Hammu before Meeting to Swarnrekha River	20.07.2023	29.0/16.0	7.9	7.3	2.3	-	-	70	18	48	124	36.8	7.800	310	350	40	6
4754	River Swarnrekha At- Ruca Dam, Ruca, Ranchi	20.07.2023	34.5/23.0	7.0	6.5	0.3	-	-	76	20	20	126	33.6	10.248	384	424	40	6
424/23	Govt. Handpump, Near House of Rajendra Singh Munda, Kokana, Muri	21.07.2023	32.0/18.0	3.2	6.5	2.4	-	-	66	18	44	124	36.8	7.800	440	482	42	6
410/23	River Swarnrekha At- Hatia Road Bridge, Ranchi	20.07.2023	31.0/17.5	4.2	6.5	2.4	-	-	64	20	48	126	33.6	10.248	406	450	44	6
420/23	River Swarnrekha U/S Hindalco Ind. Ltd, Muri Works, Chhota Muri, Ranchi	21.07.2023	35.0/23.0	7.8	7.3	2.1	-	-	62	18	40	124	36.8	7.800	342	384	42	6
4085	River Damodar Near Rohini Project, NK Area, PO-Dakra, Ranchi	31.07.2023	32.0/20.0	7.6	6.6	2.0	-	-	94	20	28	166	43.2	14.152	380	430	50	6

(S.K.Kashyap)
S.T

(Kumari Usha)
ASO

(R.N. Anjaan)
Board Analyst

JHARKHAND STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE-CUM-LABORATORY, M/B-15, NEW HOUSING COLONY
ADITYAPUR, JAMSHEDPUR

Analysis report under NWMP for the month of July, 2023

Sl. No.	Lab. Ref.	Water Code	Name of the Sampling Point	Date / Time of collection	Temp		D.O mg/l	pH	Cond. $\mu\text{ohm/m}^2$	B.O.D mg/l	C.O.D. mg/l	Total Hard.	Ca++ mg/l	Mg++ mg/l	T.D.S mg/l	T.SS mg/l	T.S mg/l
					A	W											
1	94/23	48	Chandil Road Bridge	10.07.2023 At-11.10AM	36.0	32.0	8.2	7.4	247.0	BDL	8.0	57.0	12.56	6.12	165.0	9.0	174.0
2	91/23	4744	On swarnrekha river before meeting to kharkai	10.07.2023 At-9.20 AM	34.5	32.0	8.1	7.5	229.0	1.7	12.3	56.0	9.44	7.81	153.0	11.0	164.0
3	92/23	4746	On swarnrekha river after confluence kharkai river	10.07.2023 At-9.35AM	35.0	32.0	7.8	7.8	253.0	2.1	15.6	60.0	9.45	8.80	169.0	13.0	182.0
4	90/23	4745	On Kharkai river before meeting swarnrekha river	10.07.2023 At-9.10AM	34.5	32.0	7.5	8.0	289.0	2.6	17.3	87.0	20.60	8.57	193.0	15.0	208.0
5	93/23	49	D/S Mango, Jamshedpur	10.07.2023 At-10.0 AM	36.0	33.0	7.7	8.2	330.0	2.4	13.5	89.0	18.82	10.24	220.0	9.0	229.0
6	97/23	4742	Galudih Barrage	10.07.2023 At-1.25PM	37.5	34.0	8.0	7.7	307.0	1.8	11.8	57.0	11.68	6.75	205.0	8.0	213.0
7	98/23	4743	U/s HCL Ghatsila	10.07.2023 At-2.0 AM	35.0	33.0	8.3	7.4	294.0	1.4	9.7	82.0	21.00	7.13	196.0	12.0	208.0
8	100/23	24	D/s HCL Ghatsila	10.07.2023 At-2.45 AM	36.0	34.0	8.1	7.8	256.0	1.3	8.9	76.0	19.65	6.54	171.0	11.0	182.0
9	101/23	4748	Bharagora Road Bridge	10.07.2023 At-5.20 PM	33.0	31.0	8.6	8.0	261.0	BDL	8.3	67.0	19.40	4.40	174.0	8.0	182.0
10	88/23	1036	Koel Karo River at Manoherpur	09.07.2023 At-11.35AM	37.0	34.0	8.2	8.3	361.0	2.2	13.8	99.0	23.62	9.74	241.0	15.0	256.0
11	95/23	2399	Chandil Dam	10.07.2023 At-11.30AM	36.5	32.0	8.3	7.3	343.0	BDL	7.6	56.0	12.50	6.13	229.0	12.0	241.0
12	96/23	2398	Dimna Lake	10.07.2023 At-12.30PM	37.0	35.0	7.5	7.9	364.0	2.6	18.3	84.0	19.4	8.62	243.0	14.0	257.0
13	99/23	2387	Ghatsila Road Bridge	10.07.2023 At-2.20PM	35.0	33.0	7.8	7.6	267.0	1.6	12.8	68.0	11.42	9.67	178.0	9.0	187.0
14	89/23	4747	Koila River at Manoherpur	09.07.2023 At-12.15PM	38.0	35.0	7.9	8.2	384.0	2.7	17.2	91.0	19.23	10.48	256.0	23.0	279.0

M.K.C.
16/08/2023
(M.K. Choudhary)
S.T.

Amrita
16/08/2023
(Amrita Mishra)
C.E.

J.P. Singh
16.08.2023
(J.P. Singh)
Regional Officer.

Board Analyst
15/08/2023
Board Analyst

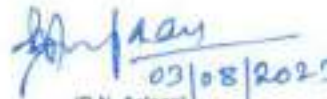
JHARKHAND STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE - CUM - LABORATORY, HIG-1, HOUSING COLONY, BARTAND, DHANBAD - 826001

Analysis report of Damodar river/Tributaries/Pond under NWMP of July, 2023

Lab Ref. No.	STN Code	Sampling Date	Sampling Time	Name Of Monitoring Location	Temp A/W in °C	D.O. mg/lit	pH	BOD mg/lit	AK mg/lit	O ₂ mg/lit	COD mg/lit	T.H. mg/lit	Ca++ mg/lit	Mg++ mg/lit	TDS mg/lit	TS mg/lit	TSS mg/lit
2696	2382	16/07/2023	10:00 AM	DAMODAR AT PHUSRO ROAD BRIDGE	30/31.5	6.2	7.4	1.3	76	24	36	132	30.4	13.176	498	544	48
2697	3557	16/07/2023	11:05 AM	DAMODAR RIVER NEAR BIRMO RAILWAY STATION, BOKARO	31/32	7.3	7.4	1.4	78	26	40	122	240	15.128	498	545	48
2698	3555	16/07/2023	11:50 AM	DAMODAR RIVER NEAR ZARANGDIH BRIDGE, BOKARO	32/31.5	7.7	7.6	1.4	76	26	40	128	17.6	10.248	412	460	48
2699	2381	16/07/2023	12:05 PM	BOKARO AT ZARANGDIH BRIDGE	33/32.5	7	7.2	1.5	72	34	44	122	29.6	13.664	410	456	48
2700	3556	16/07/2023	1:20 PM	CONFLUENCE OF BOKARO & DAMODAR RIVER NEAR ZARANGDIH BRIDGE, BOKARO	33.5/32	7.2	7.4	1.4	74	28	40	126	24	15.128	412	460	48
2701	3554	16/07/2023	2:00 PM	KONAR RIVER NEAR SWANG COAL WASHERY, BOKARO	33/32	7.5	7.2	1.3	77	26	44	120	16	9.76	400	444	44
2702	2390	16/07/2023	2:45 PM	DAMODAR AT TENUGHAT DAM	33/31	6.8	7	1	70	24	32	68	12.8	7.808	214	252	38
2703	2394	16/07/2023	6:25 PM	TOP CHANCHI LAKE	31/30	6.6	7.3	1.8	90	40	32	122	20	17.968	390	430	40
2704	4740	17/07/2023	9:20 AM	LOCO TALAB (PUMPU TALAB), AT- BARMASIA, DHANBAD	30/31	4.9	7.4	2.9	104	60	52	288	33.6	13.7	406	464	58
2705	4739	17/07/2023	10:15 AM	KATRI RIVER, NEAR BHATINDA FALL, AT- TETENGABAD, M	34/30	6.5	7.4	1.7	72	28	32	116	30.4	13.176	296	344	48
2706	4000	17/07/2023	11:15 AM	GARGA RIVER NEAR TELMUCHO BRIDGE	33/31	6.7	7.5	1.9	68	26	24	80	15.2	13.664	396	442	46
2707	3553	17/07/2023	11:30 AM	DAMODAR RIVER NEAR TELMUCHO BRIDGE	33/30	7.4	7.5	1.8	78	28	40	124	16	9.76	456	508	52
2708	4738	17/07/2023	10:50 AM	JAMUNA RIVER NEAR LOHAPATTI BRIDGE, MAHUDA, DHANBAD	33/31	7	7.4	1.8	84	40	52	132	24	15.128	462	510	48
2709	2383	17/07/2023	12:50 PM	DAMODAR U/S JAMADOBA WATER WORKS	31/29	7.7	7.5	1.8	70	30	36	120	24	15.128	294	340	46
2710	2384	17/07/2023	2:55 PM	DAMODAR AT DOMGARH WATER WORKS D/S SINDRI	30/26	7.5	7.4	1.7	72	46	40	172	30.4	13.176	294	342	48
2711	2391	17/07/2023	4:20 PM	DAMODAR AT PANCHET DAM	35/32	7.8	7.5	1.9	74	48	44	188	33.6	13.7	296	346	50
2712	2392	17/07/2023	5:20 PM	BARAKAR AT MAITHAN DAM	33/31.5	7.2	7.4	1.6	72	46	40	180	29.6	13.664	184	230	46
2713	4741	17/07/2023	6:50 PM	RANIBANDH TALAB NEAR ISM, DHANBAD	33/29	6.9	7.3	2.8	100	58	44	200	29.6	13.664	394	448	54


 01.8.23
 (S.K. Singh)
 A.S.O., Dhanbad


 (R.P. Kumar)
 R.O., Dhanbad


 03/08/2023
 (R.N. Arjan)
 Board Analyst, Ranchi



Jharkhand State Pollution Control Board, Regional Office, Hazaribag
Physico chemical characteristics of river Damodar at different points.
For the month of July, 2023

Sl.No	Ref No.	Station code	Name of Sampling Points.	Date & time Sampling	Temp. Air/Water °C	pH	D.O.	BOD Mg/L	COD Mg/l	T.S. Mg/L	TSS Mg/L	TDS Mg/l
1.	506	2378	U/s Bhairi River At- Rajrappa, Ramgarh	21.07.2023 at 11.10 AM	32/28.0	7.2	7.8	2.4	60	395	72	323
2.	507		D/s Damodar River, At- Rajrappa, Ramgarh	21.07.2023 at 11.40 AM	33/28.0	7.3	7.6	2.6	72	486	80	406
3.	508	2380	Damodar River near Ramgarh Road Bridge, Dist- Ramgarh.	21.07.2023 at 03.20 PM	32/28.5	7.2	7.5	3.1	80	512	88	424
4.	509	2379	Nalkari Tributary, At- Patratu, Ramgarh.	21.07.2023 at 04.20 PM	32/27.5	7.3	7.5	2.0	68	488	74	414
5.	510	2388	Tilaiya Dam at River Brakar, PO-Jhumri Tilaiya, Koderma	22.07.2023 at 11.20 AM	33/28.0	7.1	7.8	1.7	44	368	52	316
6.	511		Tilaiya Dam near Intake Well of DVC, Jhumri Tilaiya, Koderma	22.07.2023 at 12.30 PM	33/28.0	7.1	7.8	1.7	40	312	50	262
7.	512	2389	Konar River at Konar Dam, Bishnugah, Hazaribag.	22.07.2023 at 02.10 PM	33/28.5	7.2	7.6	1.3	48	386	52	334
8.	513		Konar Dam near Intake well of DVC, Bishnugah, Hazaribag.	22.07.2023 at 02.50 PM	32/28.0	7.1	7.8	1.7	44	310	48	262
9.	514	2402	Meetha Jheel, At-Hazaribag Dist-Hazaribag	22.07.2023 at 04.20 PM	32/28.0	7.2	7.6	2.1	56	384	72	312

Standard Limits

6.5 to 8.5 4.0 min. 30

1500

Chumy
14/8/2023
(C.K. Yadav)
A.S.O.

AK
14/8/2023
(A.K. Yadav)
R.O.

Board Analyst



Jharkhand State Pollution Control Board

Regional Office-Cum-Laboratory, Dumka

Ref. No. 1749
From

Dated 16/08/2023

Regional Officer
Dumka.

To,

The Board Analyst,
Jharkhand State Pollution Control Board,
Ranchi.

Sub:- Regarding analysis report for the month of August 04/08/2023,
07/08/2023 and 08/08/2023.

Sir,

Please find enclosed here with the analysis report of the following points of
Ganga river as per details:-

1. Ganga River, At- Rajmahal, Sahibganj.
2. Ganga River U/S Near LCT ghat, Sahibganj.
3. Ganga River D/S Near Janta Ghat, Sahibganj.
4. Ganga River Sahibganj (Sangi Dalan) Sahibganj.
5. Masanjore Dam, Dumka.
6. Shiv Ganga Pond, Deoghar.

This is for your information & necessary action.

Yours faithfully

Kamal
16/08/2023
Regional Officer
Dumka



JHARKHAND STATE POLLUTION CONTROL BOARD

1. Lab.Ref. No. 85...../

Dated...04/08/2023

2. Name of sample Ganga River At.- Rajmahal, Dist.- Sahibganj
Sahibganj

3. Sample collected by 1. Sri Anant Prakash Jha, F.A
2.

4. Sample analysed at Regional Office cum Laboratory Tower Chowk, Dudhani, Dumka

5. Name and designation of representative present at the time of sampling

Parameter Analysed:

Value

1. Date and time sampling	04/08/2023/12:40 PM
2. Temperature (A/W) C:	33°C / 30°C
3. pH:	7.7
4. D.O.mg/l :	7.2 mg/l
5. BOD mg/l :	1.4 mg/l
6. COD mg/l :	14.5 mg/l
7. Total solids mg/l :	181.0 mg/l
8. T. S. S. :-	39.0 mg/l
9. T. D. S.:	142.0 mg/l
10. Conductivity :	147.0 MHO
11. Turbidity :	39.0 NTU

Remarks: Parameters were found within acceptable limits.

S.S.A/J.S.A
16/08/2023

Kanwal
16/08/2023
Regional Officer / Board analyst



JHARKHAND STATE POLLUTION CONTROL BOARD

Lab. Ref. No. 88/

Dated 04/08/2023

2. Name of sample **Ganga River U/S Near LCT Ghat**
3. Sample collected by **1. Sahibganj**
2. Sri Anant Prakash Jha, F.A
4. Sample analysed at Regional Office cum Laboratory Tower Chowk, Dudhani, Dumka
5. Name and designation of representative present at the time of sampling

Parameter Analysed:

Value

- | | |
|---------------------------|---------------------------------------|
| 1. Date and time sampling | 04/08/2023 / 04:30 PM |
| 2. Temperature (A/W) C: | 32 ⁰ C / 29 ⁰ C |
| 3. pH : | 7.8 |
| 4. D.O.mg/l : | 7.1 mg/l |
| 5. BOD mg/l : | 1.1 mg/l |
| 6. COD mg/l : | 16.1 mg/l |
| 7. Total solids mg/l : | 292.0 mg/l |
| 8. T. S. S. :- | 62.0 mg/l |
| 9. T. D. S.: | 230.0 mg/l |
| 10. Conductivity : | 236.0 MHO |
| 11. Turbidity : | 182.0 NTU |

Remarks: Parameters were found within acceptable limits.

[Signature]
S.S.A./J.S.A

[Signature]
Regional Officer / Board analyst



JHARKHAND STATE POLLUTION CONTROL BOARD

1. Lab. Ref. No. 87.....

Dated.....04/08/2023

2. Name of sample Ganga River D/S Janta Ghat

Dist.- Sahibganj

3. Sample collected by 1. Sri Anant Prakash Jha, F.A

2.

4. Sample analysed at Regional Office cum Laboratory Tower Chowk, Dudhani, Dumka

5. Name and designation of representative present at the time of sampling

Parameter Analyzed:

Value

1.	Date and time sampling	04/08/2023/04:15 PM
2.	Temperature (A/W) C:	32 ⁰ C / 29 ⁰ C
3.	pH :	7.7
4.	D.O.mg/l :	7.2 mg/l
5.	BOD mg/l :	1.4 mg/l
6.	COD mg/l :	15.1 mg/l
7.	Total solids mg/l :	319.0 mg/l
8.	T. S. S. :-	69.0 mg/l
9.	T. D. S.:	250.0 mg/l
10.	Conductivity :	258.0 MHO
11.	Turbidity :	193.0 NTU

Remarks: Parameters were found within acceptable limits.

S.S.A./J.S.A

Kamra
16/08/2023
Regional Officer / Board analyst



JHARKHAND STATE POLLUTION CONTROL BOARD

1. Lab. Ref. No. 86

Dated.... 04/08/2023

2. Name of sample **Ganga River Sahibganj (Sangi Dalan)**
Sahibganj
3. Sample collected by **1. Sri Anant Prakash Jha, F.A**
2.
4. Sample analysed at Regional Office cum Laboratory **Tower Chowk, Dudhani, Dumka**
5. Name and designation of representative present at the time of sampling

Parameter Analysed:

Value

- | | |
|---------------------------|---------------------|
| 1. Date and time sampling | 04/08/2023/01:00 PM |
| 2. Temperature (A/W) C: | 33°C / 30°C |
| 3. pH : | 7.8 |
| 4. D.O.mg/l : | 7.1 mg/l |
| 5. BOD mg/l : | 1.2 mg/l |
| 6. COD mg/l : | 14.3 mg/l |
| 7. Total solids mg/l : | 307.0 mg/l |
| 8. T. S. S. :- | 67.0 mg/l |
| 9. T. D. S. :- | 240.0 mg/l |
| 10. Conductivity : | 245.0 MHO |
| 11. Turbidity : | 190.0 NTU |

Remarks: Parameters were found within acceptable limits.

S.S.A./S.A. [Signature]
16/08/23

[Signature]
16/08/2023
Regional Officer / Board analyst



JHARKHAND STATE POLLUTION CONTROL BOARD

1. Lab.Ref. No. 90.....

Dated.....07/08/2023

2. Name of sample Masanjore Dam,

Dist.- Dumka.

3. Sample collected by 1. Sri Anant Prakash Jha, F.A

2.

4. Sample analysed at Regional Office cum Laboratory Tower Chowk, Dudhani, Dumka

5. Name and designation of representative present at the time of sampling

Parameter Analyzed:

Value

1. Date and time sampling	07/08/2023/09:40 AM
2. Temperature (A/W) C:	28°C / 25°C
3. pH :	7.7
4. D.O.mg/l :	6.4 mg/l
5. BOD mg/l :	1.3 mg/l
6. COD mg/l :	14.6 mg/l
7. Total solids mg/l :	190.0 mg/l
8. T. S. S. :-	60.0 mg/l
9. T. D. S.:	130.0 mg/l
10. Conductivity :	134.0 MHO
11. Turbidity :	38.0 NTU

Remarks: Parameters were found within acceptable limits.

S.S.A./S.A.
16/08/2023

Kamal
16/08/2023
Regional Officer / Board analyst



JHARKHAND STATE POLLUTION CONTROL BOARD

1. Lab.Ref. No. 89 Dated 08/08/2023

2. Name of sample **Shiv Ganga Pond,**
Near Baba Mandir, Deoghar
3. Sample collected by **1. Sri Anant Prakash Jha, F.A**
2.
4. Sample analysed at Regional Office cum Laboratory **Tower Chowk, Dudhani, Dumka**
5. Name and designation of representative present at the time of sampling

Parameter Analysed :	Value
1. Date and time sampling	08/08/2023/11:00 AM
2. Temperature (A/W) C:	28°C / 25°C
3. pH :	7.7
4. D.O.mg/l :	6.2 mg/l
5. BOD mg/l :	1.5 mg/l
6. COD mg/l :	15.4 mg/l
7. Total solids mg/l :	195.0 mg/l
8. T. S. S. :-	60.0 mg/l
9. T. D. S.:	135.0 mg/l
10. Conductivity :	142.0 MHO
11. Turbidity :	46.0 NTU

Remarks: Parameters were found within acceptable limits:

S.S.A./J.S.A.

Regional Officer / Board analyst



Jharkhand State Pollution Control Board

Regional Office-Cum-Laboratory, Dumka

Ref. No. 1750
From

Dated-16/08/2023

Regional Officer
Dumka,

To,

The Board Analyst,
Jharkhand State Pollution Control Board,
Ranchi.

Sub:- Regarding analysis report for the month of August, 07/08/2023 And
08/08/2023.

Sir,

Please find enclosed here with the analysis report of the following points of
Ganga river as per details:-

1. Holy Pond of Shivganga, AtPo- Jarmundi, Basukinath, Deoghar
2. Kurwa Dumka Water Intake Point, Dumka

This is for your information & necessary action.

Yours faithfully

Kamal
16/08/2023
Regional Officer
Dumka



JHARKHAND STATE POLLUTION CONTROL BOARD

1. Lab.Ref. No. 16..... Dated.....08/08/2023
2. Name of sample Holy Pond of Shivganga At.+Po- Jarmundi, Basukinath, Dumka
Dumka
3. Sample collected by 1. Sri Anant Prakash Jha, F.A.
2.
4. Sample analysed at Regional Office cum Laboratory Tower Chowk, Dudhani, Dumka
5. Name and designation of representative present at the time of sampling

Parameter Analysed:

Value

- | | |
|---------------------------|---------------------------------------|
| 1. Date and time sampling | 08/08/2023/02:30 PM |
| 2. Temperature (A/W) C: | 28 ⁰ C / 25 ⁰ C |
| 3. pH : | 7.8 |
| 4. D.O.mg/l : | 6.2 mg/l |
| 5. BOD mg/l : | 2.1 mg/l |
| 6. COD mg/l : | 15.2 mg/l |
| 7. Total solids mg/l : | 307.0mg/l |
| 8. T. S. S. :- | 67.0 mg/l |
| 9. T. D. S.: | 240.0 mg/l |
| 10. Conductivity : | 246.0 MHO |
| 11. Turbidity : | 150.0 NTU |

Remarks: Parameters were found within acceptable limits.

S.S.A./J.S.A

Kamal
Regional Officer / Board analyst



JHARKHAND STATE POLLUTION CONTROL BOARD

1. Lab.Ref. No. 15..... Dated....07/08/2023
2. Name of sample Kurwa Dumka Water Intake Point, Dumka (Water intake Point)
Dumka
3. Sample collected by 1. Sri Anant Prakash Jha, F.A
2.
4. Sample analysed at Regional Office cum Laboratory Tower Chowk, Dudhani, Dumka
5. Name and designation of representative present at the time of sampling

Parameter Analysed:

Value

- | | |
|---------------------------|---------------------|
| 1. Date and time sampling | 07/08/2023/11:50 AM |
| 2. Temperature (A/W) C: | 28°C / 25°C |
| 3. pH : | 7.5 |
| 4. D.O.mg/l : | 7.6 mg/l |
| 5. BOD mg/l : | 1.2 mg/l |
| 6. COD mg/l : | 12.4 mg/l |
| 7. Total solids mg/l : | 267.0 mg/l |
| 8. T. S. S. :- | 57.0 mg/l |
| 9. T. D. S.: | 210.0 mg/l |
| 10. Conductivity : | 218.0 MHO |
| 11. Turbidity : | 140.0 NTU |

Remarks: Parameters were found within acceptable limits.

S.S.A/J.S.A

Kamal
16/08/2023
Regional Officer / Board analyst

Microbiology Water Analysis Report

Name of the client	M/S Regional Officer Dist-Dumka (Jharkhand)	Sample ID	G/230809/SW-01
		Type of Industries	-----
		Sample Location	River Ganga, Rajmahal
		Sample collected by	Client
Job Registration	G/JRN/230809/MIB-01	Sampling protocol	IS 2296:1982
Sample description	Surface Water	Sampling date	07-08-2023
Sample Quantity	100 ml	Test start date	09-08-2023
Date of Issue	14-08-2023	Test complete date	12-08-2023

Microbiology Test Report

S. no.	Tested Parameters	Unit	Result	Method No.	Permissible Limit
1.	Total Coliform	MPN/100ml	26	IS: 1622-1981 RA 2009	Shall not be detectable in 100ml of sample as per IS 10500:2012
2.	Fecal Coliform	MPN/100ml	<2	IS: 1622-1981 RA 2009	
3.	E-coli	MPN/100ml	12	IS: 1622-1981 RA 2009	
4.	Fecal Streptococci	MPN/100ml	<2	IS: 1622-1981 RA 2009	

Remarks:

Note: - On the basis of the tested parameters, sample complies with the requirement of Inland Surface water: Class B according to IS 2296:1982.

- Results relate only to the items sampled and tested.
- The report shall not be reproduced except in full without approval of the laboratory.
- Any dispute is subject to Ranchi Jurisdiction Only.
- Sample will be discarded after 15 days from the issue date of the test report.

<i>Sumit Kumar</i> 14-08-23	<i>Sumit Kumar</i> 14-08-23	<i>Neeraj Karan</i> 14/08/23
Sumit Kumar	Sumit Kumar	Neeraj Karan Pat Pingua
Tested by	Checked by	Issued by
Analyst	In Charge (Microbiology)	(Laboratory In-Charge)



*****End of Test Report*****

Lab In-Charge
Gems Projects Pvt. Ltd
Page 1 of 1

Microbiology Water Analysis Report

Name of the client	M/s Regional Officer Dist-Dumka (Jharkhand)	Sample ID	G/230809/SW-02
		Type of Industries	*****
		Sample Location	River Ganga , Sangidalan , rajmahal
		Sample collected by	Client
Job Registration	G/JRN/230809/MIB-01	Sampling protocol	IS 2296:1982
Sample description	Surface Water	Sampling date	07-08-2023
Sample Quantity	100 ml	Test start date	09-08-2023
Date of Issue	14-08-2023	Test complete date	12-08-2023

Microbiology Test Report

S. no.	Tested Parameters	Unit	Result	Method No.	Permissible Limit
1.	Total Coliform	MPN/100ml	40	IS: 1622-1981 RA 2009	Shall not be detectable in 100ml of sample as per IS 10500:2012
2.	Fecal Coliform	MPN/100ml	04	IS: 1622-1981 RA 2009	
3.	E-coli	MPN/100ml	17	IS: 1622-1981 RA 2009	
4.	Fecal Streptococci	MPN/100ml	<2	IS: 1622-1981 RA 2009	

Remarks:

Note: - On the basis of the tested parameters, sample complies with the requirement of Inland Surface water: Class B according to IS 2296:1982.

1. Results relate only to the items sampled and tested.
2. The report shall not be reproduced except in full without approval of the laboratory.
3. Any dispute is subject to Ranchi Jurisdiction Only.
4. Sample will be discarded after 15 days from the issue date of the test report.

<i>Sumit Kumar</i> 14-08-23 Sumit Kumar	<i>Sumit Kumar</i> 14-08-23 Sumit Kumar	<i>Neeraj Karan Pat Pingua</i> 14/08/23 Neeraj Karan Pat Pingua
Tested by	Checked by	Issued by
Analyst	In-Charge(Microbiology)	(Laboratory In-Charge)



Lab In-Charge
Gems Projects Pvt. Ltd

Microbiology Water Analysis Report

Name of the client	M/S Regional Officer Dist-Dumka (Jharkhand)	Sample ID	G/230809/SW-03
		Type of Industries	*****
		Sample Location	River ganga , D/S Jantaghat
		Sample collected by	Client
Job Registration	G/JRN/230809/MIB-01	Sampling protocol	IS 2296:1982
Sample description	Surface Water	Sampling date	07-08-2023
Sample Quantity	100 ml	Test start date	09-08-2023
Date of Issue	14-08-2023	Test complete date	12-08-2023

Microbiology Test Report

S. no.	Tested Parameters	Unit	Result	Method No.	Permissible Limit
1.	Total Coliform	MPN/100ml	27	IS: 1622-1981 RA 2009	Shall not be detectable in 100ml of sample as per IS 10500:2012
2.	Fecal Coliform	MPN/100ml	02	IS: 1622-1981 RA 2009	
3.	E-coli	MPN/100ml	09	IS: 1622-1981 RA 2009	
4.	Fecal Streptococci	MPN/100ml	<2	IS: 1622-1981 RA 2009	

Remarks:

Note: - On the basis of the tested parameters, sample complies with the requirement of Inland Surface water: Class B according to IS 2296:1982.

1. Results relate only to the items sampled and tested.
2. The report shall not be reproduced except in full without approval of the laboratory.
3. Any dispute is subject to Ranchi Jurisdiction Only.
4. Sample will be discarded after 15 days from the issue date of the test report.

<i>Sumit Kumar</i> 14-08-23 Sumit Kumar	<i>Sumit Kumar</i> 14-08-23 Sumit Kumar	<i>Neeraj Karan Pat Pingua</i> 14/08/23 Neeraj Karan Pat Pingua
Tested by	Checked by	Issued by
Analyst	In-Charge(Microbiology)	(Laboratory In-Charge)



*****End of Test Report*****

Lab In-Charge
Gems Projects Pvt Ltd
Page 1 of 1

Microbiology Water Analysis Report

Name of the client	M/S Regional Officer Dist-Dumka (Jharkhand)	Sample ID	G/230809/SW-04
		Type of Industries	-----
		Sample Location	River Ganga, U/S Near LCT Ghat
		Sample collected by	Client
Job Registration	G/JRN/230809/MIB-01	Sampling protocol	IS 2296:1982
Sample description	Surface Water	Sampling date	07-08-2023
Sample Quantity	100 ml	Test start date	09-08-2023
Date of Issue	14-08-2023	Test complete date	12-08-2023

Microbiology Test Report

S. no.	Tested Parameters	Unit	Result	Method No.	Permissible Limit
1.	Total Coliform	MPN/100ml	26	IS: 1622-1981 RA 2009	Shall not be detectable in 100ml of sample as per IS 10500:2012
2.	Fecal Coliform	MPN/100ml	<2	IS: 1622-1981 RA 2009	
3.	E-coli	MPN/100ml	06	IS: 1622-1981 RA 2009	
4.	Fecal Streptococci	MPN/100ml	<2	IS: 1622-1981 RA 2009	

Remarks:

Note: - On the basis of the tested parameters, sample complies with the requirement of Inland Surface water: Class B according to IS 2296:1982.

1. Results relate only to the items sampled and tested.
2. The report shall not be reproduced except in full without approval of the laboratory.
3. Any dispute is subject to Ranchi Jurisdiction Only.
4. Sample will be discarded after 15 days from the issue date of the test report.

<i>Sumit Kumar</i> 14-08-23	<i>Sumit Kumar</i> 14-08-23	<i>Neeraj Karan Pat Pingua</i> 14/08/23
Sumit Kumar	Sumit Kumar	Neeraj Karan Pat Pingua
Tested by	Checked by	Issued by
Analyst	In-Charge(Microbiology)	(Laboratory In-Charge)



*****End of Test Report*****

Lab In-Charge
Gems Projects Pvt. Ltd
Page 1 of 1

Annexure - 9

पत्र संख्या :- 01 स्था0 (वि0)- 86/2019-2703 / पं0 5

झारखण्ड सरकार
पंचायती राज विभाग

द्वितीय तल, एफ0एफ0वी0 भवन, धुर्वा, राँची-834004
e-mail : panchayat-jhr@nic.in, panchayat.jhr@gmail.com

प्रेषक,

शैल प्रभा कुजूर,
सरकार के संयुक्त सचिव ।

सेवा में,

संयुक्त सचिव,
वन, पर्यावरण एवं जलवायु परिवर्तन विभाग,
झारखण्ड, राँची ।

राँची, दिनांक :- 30.12.22

विषय :- माननीय NGT वाद संख्या O.A. No-606/2018 में दिनांक 31.05.2022 को पारित आदेश के अनुपालन में सूचना उपलब्ध कराने के संबंध में ।

प्रसंग :- भवदीय पत्रांक 3844 दिनांक 23.12.2022

महोदय,

निर्देशानुसार उपर्युक्त विषय के संबंध में कहना है कि माननीय NGT के समक्ष लंबित विषयक वाद में पंचायती राज संस्थाओं द्वारा ठोस एवं तरल अपशिष्ट कचरा के प्रबंधन से संबंधित सूचना निम्नवत है :-

1. राज्य के पंचायतों को 15वें वित्त आयोग अन्तर्गत कुल अनुदान की 30 प्रतिशत राशि स्वच्छता संबंधी कार्यों/योजनाओं के क्रियान्वयन के लिए आवद्ध अनुदान के रूप में उपलब्ध करायी जाती है। वित्तीय वर्ष 2020-21 तथा 2021-22 में आवद्ध अनुदान के रूप में त्रिस्तरीय पंचायतों को 1593.9 करोड़ रुपये उपलब्ध कराया गया है जिसमें 796.75 करोड़ रुपये स्वच्छता संबंधी कार्यों के लिए है। विषयक वाद से संबंधित जिलों से विहित प्रपत्र में प्राप्त प्रतिवेदन पत्र के साथ संलग्न कर प्रेषित किया जा रहा है ।

2. मनरेगा अन्तर्गत सोकरीट एवं नाडेप कम्पोस्टिंग पीट का निर्माण कराया गया है। वर्तमान में 69325 योजनाएँ चालू हैं जबकि 28744 पूर्ण हैं ।

3. पेयजल एवं स्वच्छता विभाग द्वारा स्वच्छ भारत मिशन अन्तर्गत ग्रामीण क्षेत्रों में ठोस कचरा के संग्रहण एवं प्रबंधन संबंधित प्रतिवेदन उपलब्ध कराया गया है जो पत्र के साथ संलग्न है।

4. जिलों से प्राप्त प्रतिवेदन की समेकित विवरणी अलग से उपलब्ध करायी जायेगी।

अनुलग्नक :- यथोक्त।

विश्वसिमाजन

(शैल प्रभा कुजूर)

सरकार के संयुक्त सचिव।

**स्वच्छ भारत मिशन (ग्रामीण)
पेयजल एवं स्वच्छता विभाग-झारखण्ड**

दिनांक : 29.12.2022

SBM(G) Phase-II अंतर्गत मुख्यतः 7 प्रकार के गतिविधियाँ निर्धारित हैं जिसकी अद्यतन स्थिति निम्नवत है :-

1. खुले में शौच की स्थायित्वता-

इसके अंतर्गत सभी जिलों में शौचालयों के नियमित उपयोग, रख-रखाव, मरम्मत हेतु वृहत रुपी IEC गतिविधियाँ आयोजित की जा रही है। इसके साथ ही एक गड्ढे वाले शौचालयों को दो गड्ढों में परिवर्तित तथा सेप्टिक टैंक वाले शौचालयों के साथ सोख्ता गड्ढा का निर्माण करने हेतु लाभुकों को प्रेरित किया जा रहा है। साथ ही ग्राम स्तर पर छुटे हुए लाभुकों को चिन्हित कर उनके घरों में शौचालय का निर्माण कराया जा रहा है। वर्तमान तिथि तक निर्मित शौचालयों की संख्या निम्नवत है :-

कुल निर्मित शौचालय	48,00,087
--------------------	-----------

2. ठोस कचरा प्रबंधन -

ठोस कचरा प्रबंधन के तहत गांव स्तर पर खाद गड्ढे, नाडेप, वर्मी कम्पोस्ट पीट का निर्माण कराया जा रहा है। इस संदर्भ में 15वें वित्त आयोग निधि एवं मनरेगा से अभिसरण आधारित कार्य भी किये जा रहें हैं।

SBM(G) Phase-II	कम्पोस्ट पीट/नाडेप - 7169
-----------------	---------------------------

3. तरल कचरा प्रबंधन -

तरल कचरा प्रबंधन के तहत गांव स्तर पर सोख्ता गड्ढा, किचन गार्डन का निर्माण कराया जा रहा है। इस संदर्भ में 15वें वित्त आयोग निधि एवं मनरेगा से अभिसरण आधारित कार्य भी किये जा रहें हैं।

SBM(G) Phase-II	सोक पीट/लीच पीट - 15162
-----------------	-------------------------

4. प्लास्टिक कचरा प्रबंधन -

इसके तहत ग्राम स्तर पर एकल प्लास्टिक के उपयोग को समाप्त करने हेतु व्यापक स्तर पर जन-जागरूकता चलाया जा रहा है। इसके साथ ही ग्राम स्तर पर प्लास्टिक संग्रह केन्द्र बनाये जा रहें हैं, जहाँ पर प्लास्टिक का संग्रह, अलग-अलग यथा पृथक्कीकरण करने का कार्य किया जा रहा है। इसके साथ ही कुछ जगहों पर प्लास्टिक कचरा के Treatment उपरांत Reuse करने की योजना बनायी जा रही है। इस हेतु SBM(G) अंतर्गत प्रत्येक प्रखण्ड स्तर पर 16 लाख रुपये व्यय किये जाने का प्रावधान है।

प्लास्टिक कचरा प्रबंधन हेतु प्रस्तावित Plastic Waste Management Unit	72
---	----

5. गोबरघन योजना -

गोबरघन योजना अंतर्गत ग्राम स्तर पर लोगों को गोबर के महत्व को बताने का कार्य तथा गोबर से गोबर गैस तैयार करने का कार्य किया जायेगा। इस प्रकार गोबर का उपयोग ईंधन के रूप में तथा उसकी Slurry का उपयोग खेतों में खाद के रूप में उपयोग किया जायेगा।

इस हेतु SBM(G) अंतर्गत प्रत्येक जिला स्तर पर 50 लाख रुपये व्यय किये जाने का प्रावधान है। इस संदर्भ में 15वें वित्त आयोग निधि एवं मनरेगा से अभिसरण आधारित कार्य भी किये जा रहे हैं।

कुल निर्मित गोबर गैस प्लांट	2 अद्द यूनिट SBM(G) से एवं 93 अद्द यूनिट अन्य मद से
-----------------------------	---

6. मलीय कचरा प्रबंधन (FSM) -

इसके तहत ग्राम स्तर पर सैप्टिक टैंक एवं अन्य शौचालयों से निकलने वाले मल का सुरक्षित प्रबंधन किया जाना है।

इसके अंतर्गत ग्राम/जिला स्तर पर FSTP (Faecal Sludge Treatment Plant) तैयार किया जायेगा, जिसमें संबंधित जगहों से मल का उठाव कर FSTP में डाला जायेगा तथा वहाँ मल एवं पानी का Treatment किया जायेगा। जिसके उपरांत मल एवं पानी को अलग-अलग कर उसे Reuse यथा मल को खाद के रूप में तथा बेकार पानी को खेतों में सिंचाई हेतु उपयोग किया जायेगा।

इस हेतु नगर विकास विभाग अंतर्गत अभिसरण आधारित कार्य किया जायेगा।

निर्माणाधीन FSTP	रौंची, गुमला, सिमडेगा एवं धनबाद
------------------	---------------------------------

7. माहवारी स्वच्छता प्रबंधन (MHM) -

इसके तहत महिलाओं/किशोरियों में माहवारी स्वच्छता पर जागरूक करना है। इस प्रकार महिलायें माहवारी स्वच्छता पर त्वय को जागरूक कर पायेगी।

SBM(G) के तहत अबतक 223 विद्यालयों में सेनटरी नैपकिन वैंडिंग मशीन एवं 232 विद्यालयों में इंसीनेटर का अधिस्थापन किया गया है।

कुल पैड वैंडिंग मशीन-223	कुल इंसीनेटर - 232	विद्यालय
सक्रिय - 138	सक्रिय - 137	KGBV & JAV

मुख्य अभियंता का कार्यालय
योजना मोनिटरिंग एवं आयोजन
जल संसाधन विभाग, राँची

पत्रांक -2/पी०एम०सी०/विविध/754/2019 (खण्ड-1).....460

/राँची, दिनांक 11/09/2023

प्रेषक,

ई० मोती लाल पिंगुआ
मुख्य अभियंता (मो०)।

सेवा में,

निदेशक
राज्य शहरी विकास अभिकरण
नगर विकास एवं आवास विभाग,
राँची।
E-mail-jhspmngnrb@gmail.com

विषय :- माननीय N.G.T. के वाद संख्या-200/2014 में पारित आदेश के ससमय अनुपालन के संबंध में।

प्रसंग :- नगर विकास एवं आवास विभाग का पत्रांक-SUDA/UDHD/NGT/2019/17(Part-2)/44/2020-145 राँची दिनांक- 07.08.2023

महाराज,

उपर्युक्त विषयक प्रासंगिक पत्र के संदर्भ में निदेशानुसार वाद संख्या-200/2014 के संबंध में जल संसाधन विभाग से संबंधित बिन्दुओं का अद्यतन कार्य प्रगति प्रतिवेदन सूचनार्थ एवं आवश्यक कार्रवाई हेतु संलग्न की जाती है।

अनु :- यथोक्त।

विश्वासभाजन,

(मोती लाल पिंगुआ)
मुख्य अभियंता (मो०)

Compliance Report in the matter of Hon'ble N.G.T. Case O.A. No.- 200/2014

Department : Water Resources Department

Sl. No	Activity to be monitored	Update Status
(i)	Demarcation of Flood Plain Regulation(Including prevention of encroachment)	Along 83 km stretch of river Ganga falling under Sahebganj district, there is inundation mostly in areas lying to the right of the river Ganga when its level rises during high flood. The total area which gets flooded has been worked out around 54.47 square km by the Consultant WAPCOS. The demarcation of flood plain zone has also been done by the Consultant based on recorded HFL of the river along the said stretches. There is no report of any illegal encroachment over existing embankment of the river in the aforesaid stretch. (Certificate along with Drawing is enclosed at Annexure-I). Along 146 km Stretch o river Damodar Falling under Dhanbad and Bokaro district, there is inundation mostly in areas laying to the right and left of the river Damodar when its level uses during high flood. The total area which gets flooded has been worked out around 34 square km. The demarcation of flood plain zone has been done .On basis of HFL of the river along the said stretches There is no report of any illegal encroachment over exiting embankment of the river in the aforesaid stretch. (Certificate along with Drawing is enclosed at Annexure-II).
(ii)	E-Flow Maintenance	No issue of regulation/maintenance of E-flow does exists as there is no dam/barrage constructed in river Ganga Up Stream side of Sahebganj within territorial boundary of Jharkhand State

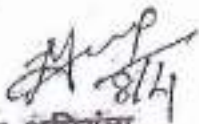
(iii)	Steps for conservation of ground water particularly with reference to critical, Semi critical or over-exploited areas.	106 nos. Rain Water Harvesting (RWH) Structures is proposed to be taken up under Ganga and Damodar basins. Present status of Progress of various structures is enclosed at Annexure – III.
(iv)	Restoration of water bodies	Restoration of 143 no. of water bodies is proposed to be taken up under Ganga and Damodar basins. Present status of Progress of various structures is enclosed at Annexure – IV.
(v)	Compliance on other various direction of the committee's 3 rd meeting held on 25.04.2022 (MoM No. 112 Dated 13.05.2022) in order to comply the Hon'ble NGT Court Order related to River Ganga & Its tributary river Damodar.	As per direction of 3 rd meeting the progress of 106 rain water harvesting (RWH) and 143 no. of water bodies proposed to be taken under Ganga and Damodar Basin has been enclosed at annexure III & IV respectively.

मुख्य अभियंता का कार्यालय
जल संसाधन विभाग
देवघर

पत्रांक :- 617 देवघर दिनांक :- 08.04.2022

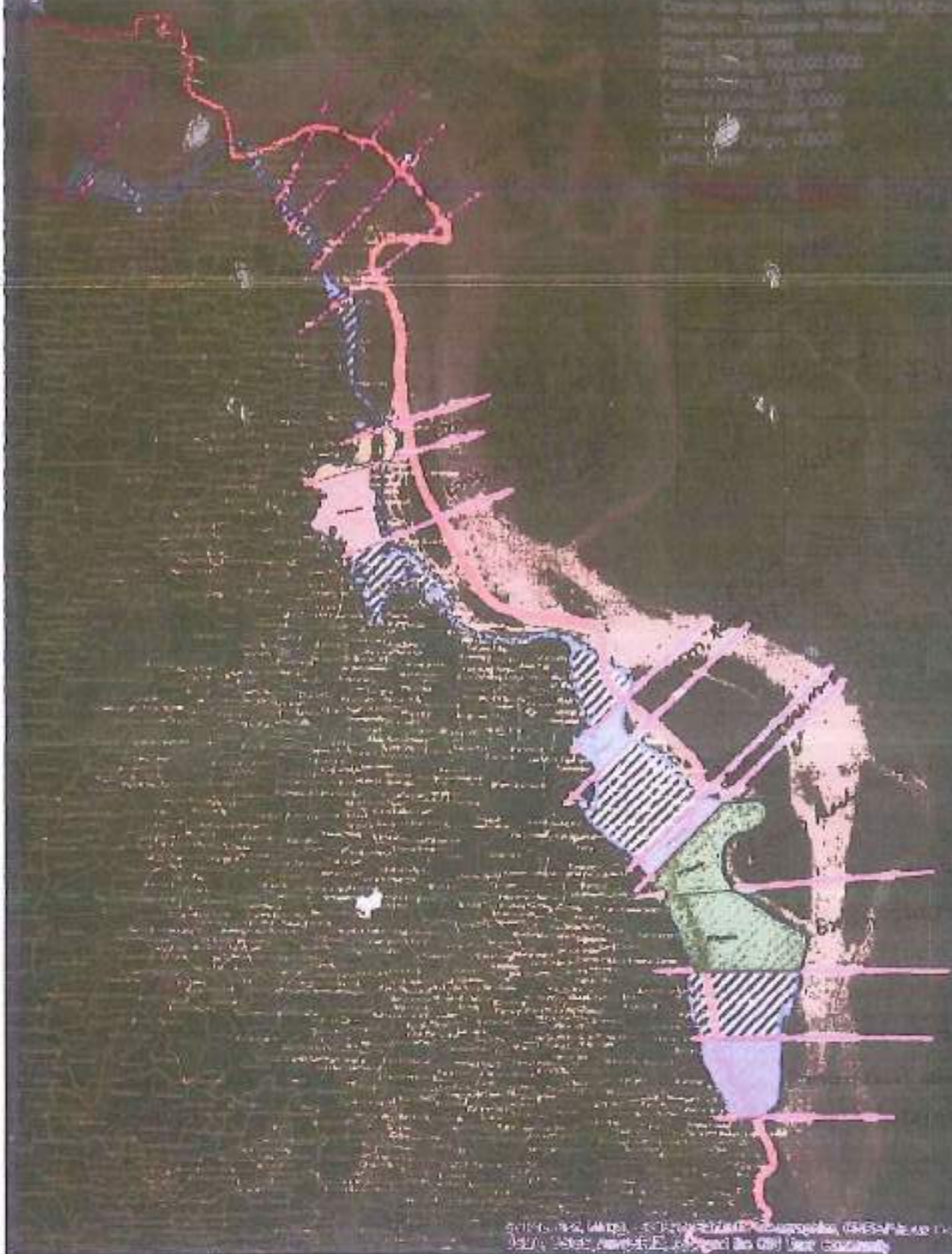
Along 83 km stretch of river Ganga falling under Sahibganj district, there is inundation mostly in areas lying to the right of the river Ganga when its level rises during high flood. The total area which gets flooded has been worked out around 54.47 square km. The demarcation of flood plain zone has also been done by the consultant based on recorded HFL of the river along the said stretches (Drawing enclosed). There is no report of any illegal encroachment over existing embankment of the river in the aforesaid stretch.

It is to certify that the above 54.47 Square km is Flood Prone Zone.


मुख्य अभियंता
जल संसाधन विभाग
देवघर

INDEX MAP

Coordinate System: WGS 1984 UTM Zone 48N
 Projection: Transverse Mercator
 Datum: WGS 1984
 False Easting: 500,000.0000
 False Northing: 0.0000
 Central Meridian: 75.0000
 Scale: 1:50,000
 Units: Meter



Source: Aerial Map, 1:50,000 Scale, 1984, (GIS Software: ArcView 3.2a, Data: Vector File, Digitized by GIS User)

Legend

Reach lines	FP Reach1	FP Reach6	FP Reach10
sahebganj Village	FP Reach3	FP Reach7	FP Reach11
FPRB	FP Reach4	FP Reach8	
	FP Reach5	FP Reach9	

Reach	Chainage(km)	Right Bank Elevation	HFL	Area in Sq m	Area in Hec.
1	15.5	28.698	30.62	825591	82.5591
	16	27.278	30.62		
	16.5	29.003	30.62		
2					
3	27.5	25.118	30.24	441262	44.1262
	28	23.006	30.24		
	29	29.562	30.09		
4	31	27.388	30.09	728514	72.8514
	31.5	25.069	30.09		
	33	22.1	30.09		
5	38.5	27.665	29.74	2837496	283.7496
	39.5	22.935	29.74		
6	41	22.741	29.57	8096660	809.666
	42	26.005	29.57		
	42.5	26.766	29.57		
	43	25.797	29.57		
	43.5	26.392	29.57		
	44	26.148	29.57		
	44.5	26.783	29.57		
7	58	25.216	28.65	3212776	321.2776
	58.5	24.841	28.65		
	59.5	25.43	28.65		
	59	25.009	28.65		
8	63	25.719	28.65	3488151	348.8151
	64	24.979	28.28		
	64.5	24.148	28.28		
9	67.5	23.356	28	9509949	950.9949
	68	24.682	28		
	68.5	23.98	28		
	69	24.419	28		
	69.5	24.963	28		
	70	24.611	28		
	66	22.107	28		
10	70.5	25.94	27.85	15987503	1598.7503
	71	25.539	27.85		
	71.5	25.851	27.85		
	72	25.281	27.85		
	72.5	25.109	27.85		
	73	24.543	27.85		
	73.5	24.504	27.85		
	74.5	23.611	27.85		
11	75.5	24.526	27.85	9349883	934.9883
	78.5	23.729	27.09		
	79	24.079	27.09		
	79.5	23.833	27.09		
	80	23.683	27.09		
	80.5	23.189	27.09		
	81	22.595	27.09		
	82	22.562	27.09		
Total Area				54477785	5447.7785

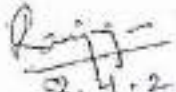
मुख्य अभियंता का कार्यालय,
जल संसाधन विभाग,
हजारीबाग।

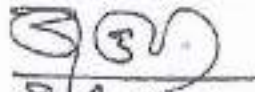
क्र.:- 267

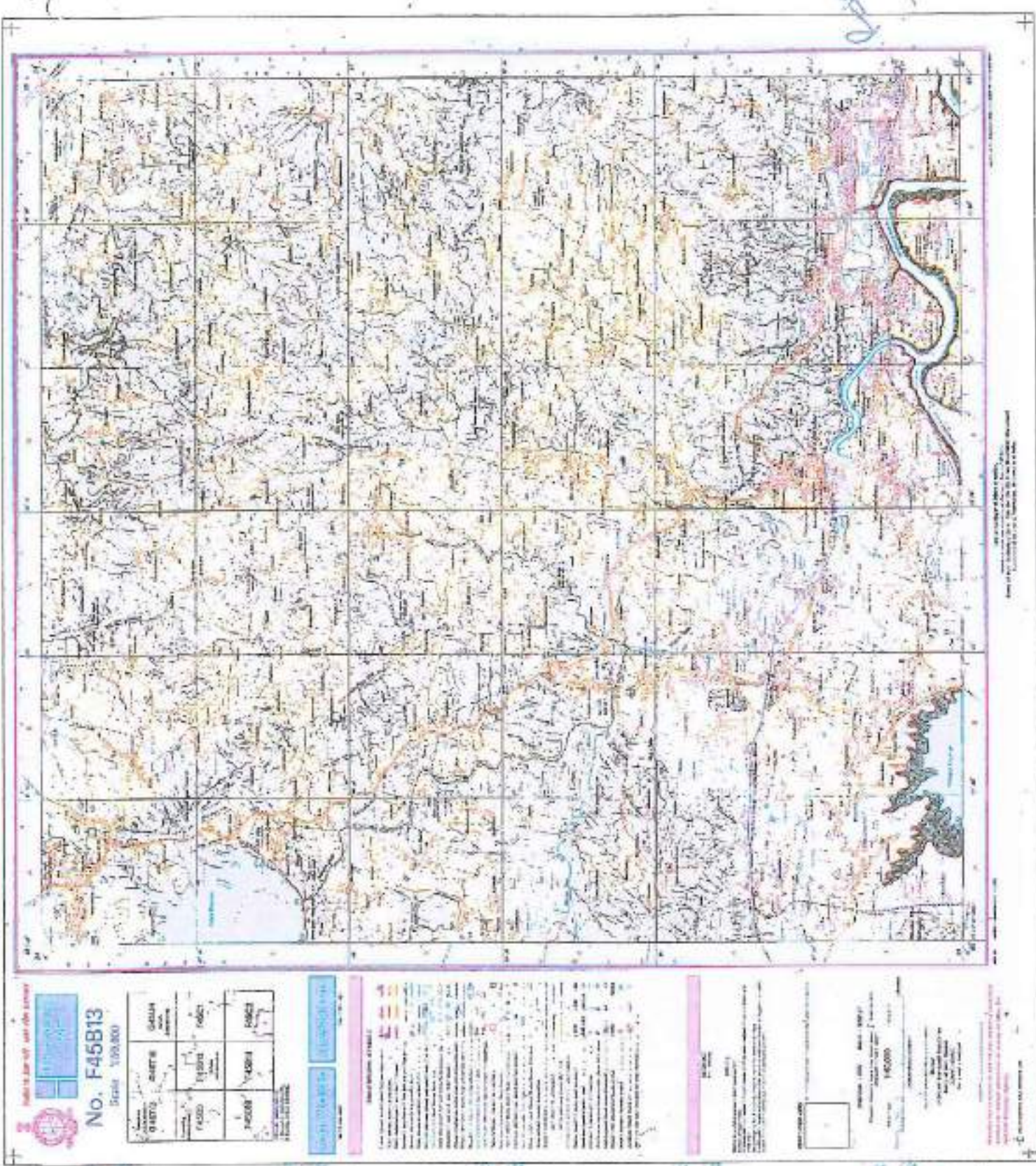
/हजारीबाग, दिनांक :- 08/04/2022

Along 146 km Stretch of river Damodar Falling under Dhanbad and Bokaro district, there is inundation mostly in areas laying to the right and left of the river Damodar when its level rises during high flood. The total area which gets flooded has been worked out around 34 square km. The demarcation of flood plain zone has been done. On basis of HFL of the river along the said stretches (Drawing enclosed). There is no report of any illegal encroachment over existing embankment of the river in the aforesaid stretch.

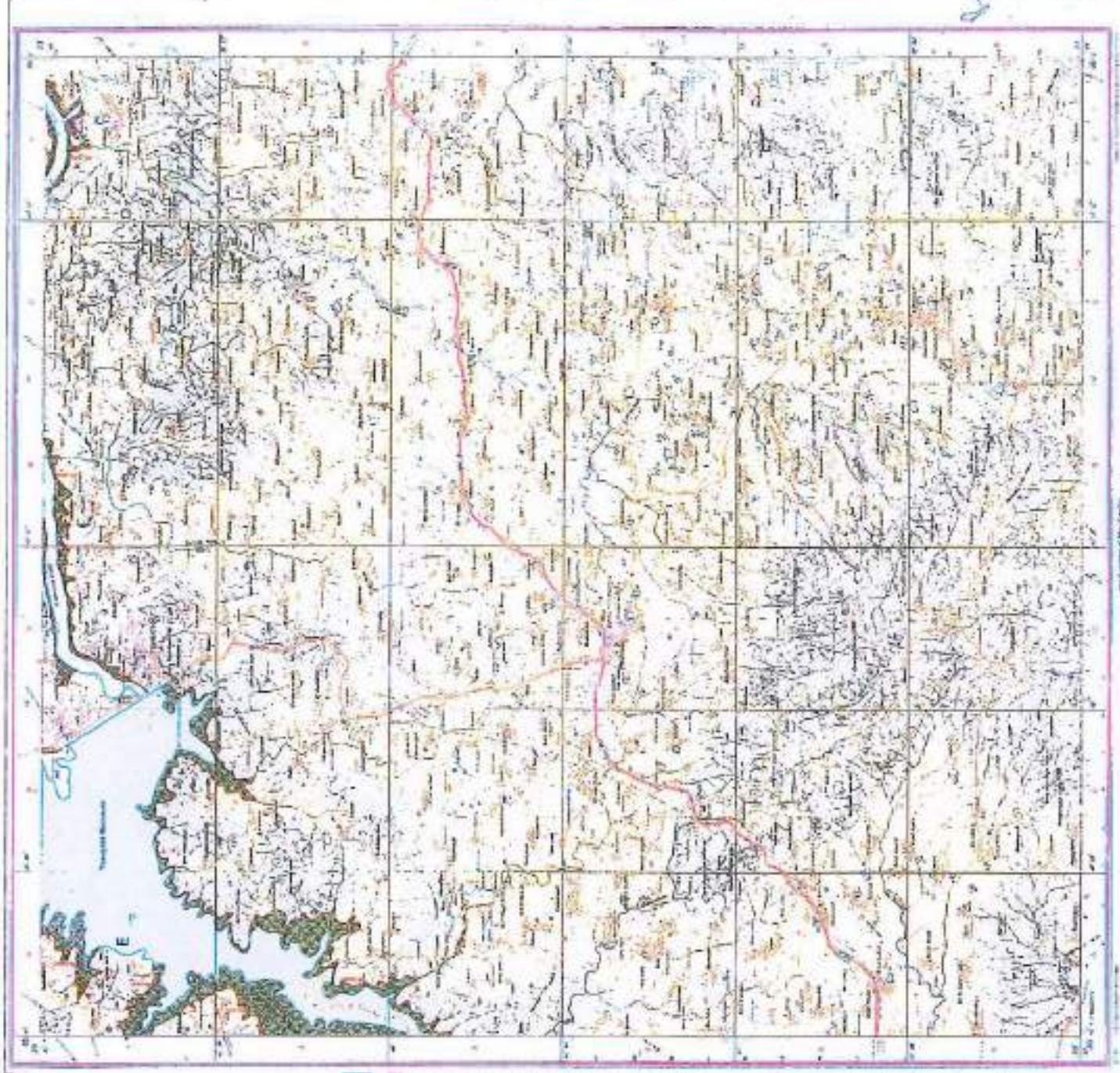
It is to certify that the above 34 Square km is Flood Prone Zone.


8.4.22
कार्यपालक अभियन्ता
तेनुघाट और धमंडल, तेनुघाट
(बोकारो)


8.4.2022
(Chief Engineer)
WRD, Hazaribag



3)
 Township
 Division
 Township
 14
 14
 14



No. F45B14
Scale 1:50,000

F4500	F4500	F4500	F4500
F4500	F4500	F4500	F4500
F4500	F4500	F4500	F4500
F4500	F4500	F4500	F4500

LEGEND

Physical Features

Man-made Features

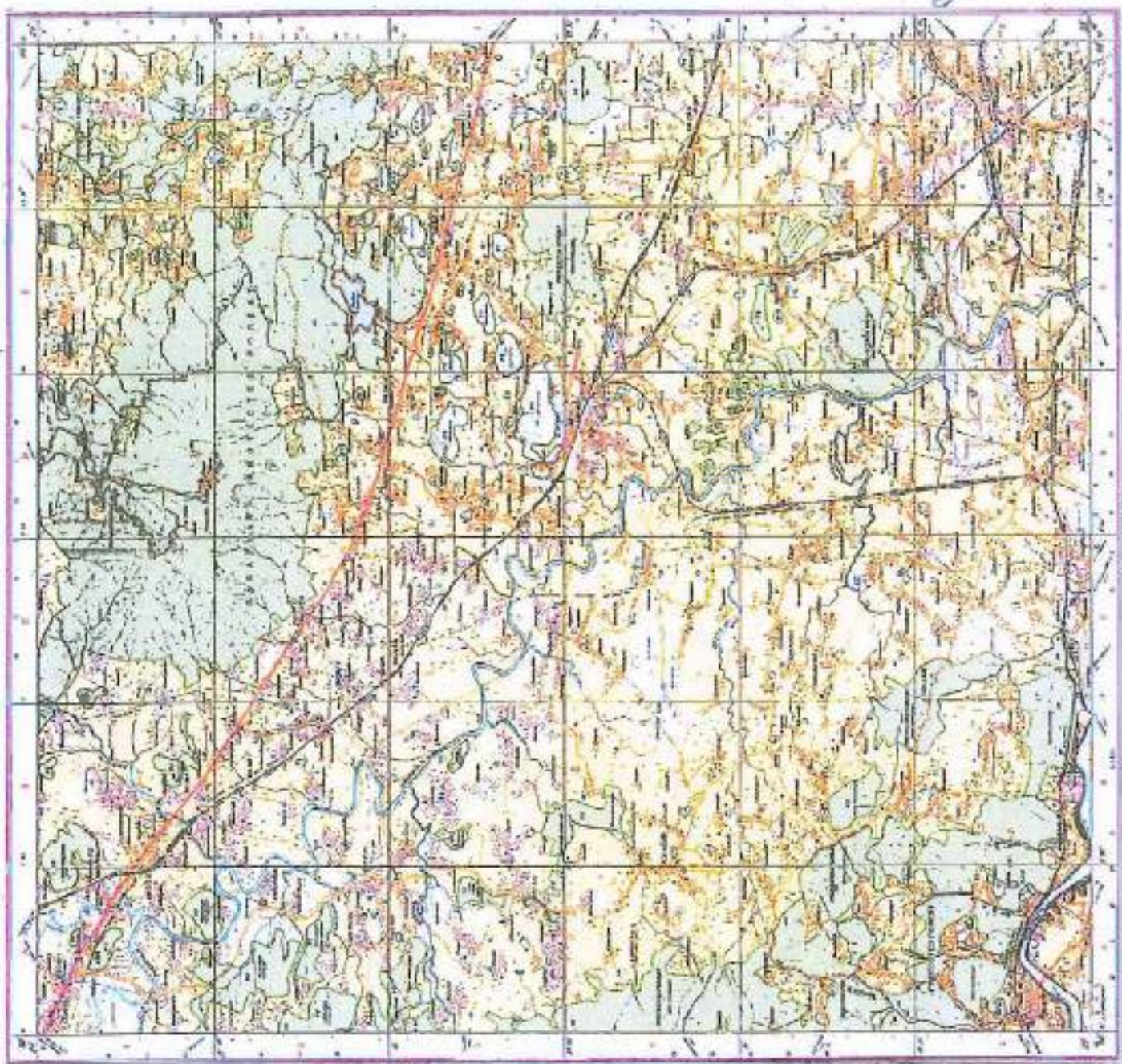
Other Features

Scale

Projection

Notes

Training Unit
Division
Training Unit
M.E.
5/1/22



No. F45C1
Scale 1:50,000

Q1510 Q1511 Q1512 Q1513 Q1514 Q1515 Q1516 Q1517 Q1518 Q1519 Q1520 Q1521 Q1522 Q1523 Q1524 Q1525 Q1526 Q1527 Q1528 Q1529 Q1530 Q1531 Q1532 Q1533 Q1534 Q1535 Q1536 Q1537 Q1538 Q1539 Q1540 Q1541 Q1542 Q1543 Q1544 Q1545 Q1546 Q1547 Q1548 Q1549 Q1550 Q1551 Q1552 Q1553 Q1554 Q1555 Q1556 Q1557 Q1558 Q1559 Q1560 Q1561 Q1562 Q1563 Q1564 Q1565 Q1566 Q1567 Q1568 Q1569 Q1570 Q1571 Q1572 Q1573 Q1574 Q1575 Q1576 Q1577 Q1578 Q1579 Q1580 Q1581 Q1582 Q1583 Q1584 Q1585 Q1586 Q1587 Q1588 Q1589 Q1590 Q1591 Q1592 Q1593 Q1594 Q1595 Q1596 Q1597 Q1598 Q1599 Q1600 Q1601 Q1602 Q1603 Q1604 Q1605 Q1606 Q1607 Q1608 Q1609 Q1610 Q1611 Q1612 Q1613 Q1614 Q1615 Q1616 Q1617 Q1618 Q1619 Q1620 Q1621 Q1622 Q1623 Q1624 Q1625 Q1626 Q1627 Q1628 Q1629 Q1630 Q1631 Q1632 Q1633 Q1634 Q1635 Q1636 Q1637 Q1638 Q1639 Q1640 Q1641 Q1642 Q1643 Q1644 Q1645 Q1646 Q1647 Q1648 Q1649 Q1650 Q1651 Q1652 Q1653 Q1654 Q1655 Q1656 Q1657 Q1658 Q1659 Q1660 Q1661 Q1662 Q1663 Q1664 Q1665 Q1666 Q1667 Q1668 Q1669 Q1670 Q1671 Q1672 Q1673 Q1674 Q1675 Q1676 Q1677 Q1678 Q1679 Q1680 Q1681 Q1682 Q1683 Q1684 Q1685 Q1686 Q1687 Q1688 Q1689 Q1690 Q1691 Q1692 Q1693 Q1694 Q1695 Q1696 Q1697 Q1698 Q1699 Q1700 Q1701 Q1702 Q1703 Q1704 Q1705 Q1706 Q1707 Q1708 Q1709 Q1710 Q1711 Q1712 Q1713 Q1714 Q1715 Q1716 Q1717 Q1718 Q1719 Q1720 Q1721 Q1722 Q1723 Q1724 Q1725 Q1726 Q1727 Q1728 Q1729 Q1730 Q1731 Q1732 Q1733 Q1734 Q1735 Q1736 Q1737 Q1738 Q1739 Q1740 Q1741 Q1742 Q1743 Q1744 Q1745 Q1746 Q1747 Q1748 Q1749 Q1750 Q1751 Q1752 Q1753 Q1754 Q1755 Q1756 Q1757 Q1758 Q1759 Q1760 Q1761 Q1762 Q1763 Q1764 Q1765 Q1766 Q1767 Q1768 Q1769 Q1770 Q1771 Q1772 Q1773 Q1774 Q1775 Q1776 Q1777 Q1778 Q1779 Q1780 Q1781 Q1782 Q1783 Q1784 Q1785 Q1786 Q1787 Q1788 Q1789 Q1790 Q1791 Q1792 Q1793 Q1794 Q1795 Q1796 Q1797 Q1798 Q1799 Q1800 Q1801 Q1802 Q1803 Q1804 Q1805 Q1806 Q1807 Q1808 Q1809 Q1810 Q1811 Q1812 Q1813 Q1814 Q1815 Q1816 Q1817 Q1818 Q1819 Q1820 Q1821 Q1822 Q1823 Q1824 Q1825 Q1826 Q1827 Q1828 Q1829 Q1830 Q1831 Q1832 Q1833 Q1834 Q1835 Q1836 Q1837 Q1838 Q1839 Q1840 Q1841 Q1842 Q1843 Q1844 Q1845 Q1846 Q1847 Q1848 Q1849 Q1850 Q1851 Q1852 Q1853 Q1854 Q1855 Q1856 Q1857 Q1858 Q1859 Q1860 Q1861 Q1862 Q1863 Q1864 Q1865 Q1866 Q1867 Q1868 Q1869 Q1870 Q1871 Q1872 Q1873 Q1874 Q1875 Q1876 Q1877 Q1878 Q1879 Q1880 Q1881 Q1882 Q1883 Q1884 Q1885 Q1886 Q1887 Q1888 Q1889 Q1890 Q1891 Q1892 Q1893 Q1894 Q1895 Q1896 Q1897 Q1898 Q1899 Q1900 Q1901 Q1902 Q1903 Q1904 Q1905 Q1906 Q1907 Q1908 Q1909 Q1910 Q1911 Q1912 Q1913 Q1914 Q1915 Q1916 Q1917 Q1918 Q1919 Q1920 Q1921 Q1922 Q1923 Q1924 Q1925 Q1926 Q1927 Q1928 Q1929 Q1930 Q1931 Q1932 Q1933 Q1934 Q1935 Q1936 Q1937 Q1938 Q1939 Q1940 Q1941 Q1942 Q1943 Q1944 Q1945 Q1946 Q1947 Q1948 Q1949 Q1950 Q1951 Q1952 Q1953 Q1954 Q1955 Q1956 Q1957 Q1958 Q1959 Q1960 Q1961 Q1962 Q1963 Q1964 Q1965 Q1966 Q1967 Q1968 Q1969 Q1970 Q1971 Q1972 Q1973 Q1974 Q1975 Q1976 Q1977 Q1978 Q1979 Q1980 Q1981 Q1982 Q1983 Q1984 Q1985 Q1986 Q1987 Q1988 Q1989 Q1990 Q1991 Q1992 Q1993 Q1994 Q1995 Q1996 Q1997 Q1998 Q1999 Q2000 Q2001 Q2002 Q2003 Q2004 Q2005 Q2006 Q2007 Q2008 Q2009 Q2010 Q2011 Q2012 Q2013 Q2014 Q2015 Q2016 Q2017 Q2018 Q2019 Q2020 Q2021 Q2022 Q2023 Q2024 Q2025 Q2026 Q2027 Q2028 Q2029 Q2030 Q2031 Q2032 Q2033 Q2034 Q2035 Q2036 Q2037 Q2038 Q2039 Q2040 Q2041 Q2042 Q2043 Q2044 Q2045 Q2046 Q2047 Q2048 Q2049 Q2050 Q2051 Q2052 Q2053 Q2054 Q2055 Q2056 Q2057 Q2058 Q2059 Q2060 Q2061 Q2062 Q2063 Q2064 Q2065 Q2066 Q2067 Q2068 Q2069 Q2070 Q2071 Q2072 Q2073 Q2074 Q2075 Q2076 Q2077 Q2078 Q2079 Q2080 Q2081 Q2082 Q2083 Q2084 Q2085 Q2086 Q2087 Q2088 Q2089 Q2090 Q2091 Q2092 Q209

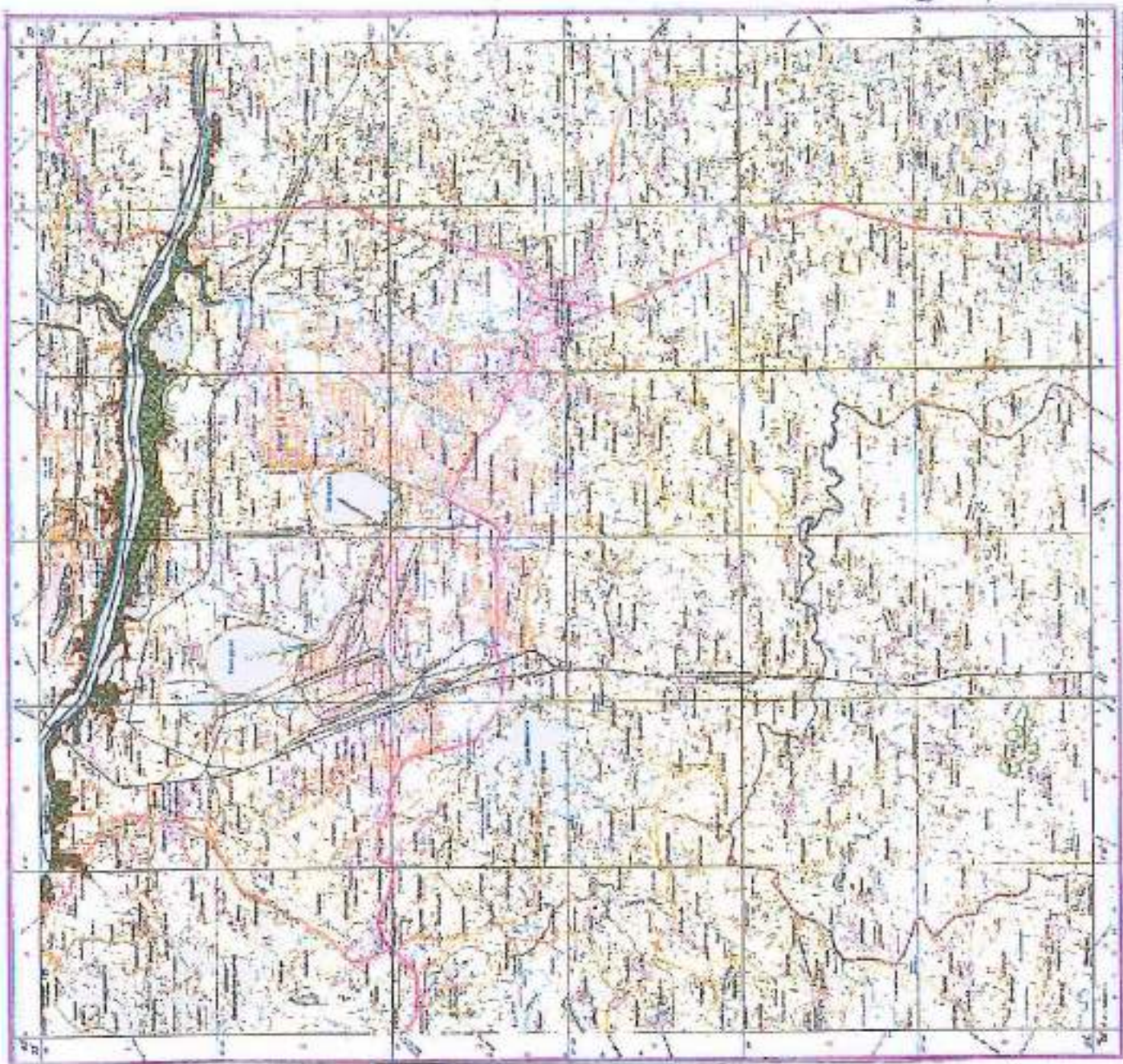
1. *What is the main purpose of the study?*
 2. *What are the research objectives?*
 3. *What is the research methodology?*
 4. *What are the findings of the study?*
 5. *What are the conclusions and recommendations?*

[illegible][illegible][illegible]

1. *Journal of the American Medical Association*, 1997; 277: 1000-1005.

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 101–108

Tamara
 Divina
 T. M.
 T. M.
 T. M.



No. F45C2
Scale - 1:50,000

[illegible][illegible]

100

Figure 1. A schematic diagram of the experimental setup. The subject is seated in a chair, viewing a screen displaying a target (a small circle) and a starting point (a larger circle). The subject's hand is positioned at the starting point, and the distance between the hand and the target is indicated by a horizontal line. The subject is instructed to move the hand towards the target, and the distance between the hand and the target is measured at the end of the movement.

Author's address: Department of Mathematics, University of California, San Diego, La Jolla, CA 92037, USA.
E-mail: shashank@ucsd.edu

1. **What is the main purpose of the document?**
The document is a **letter of recommendation** for a student named **John Doe**, who is applying for a **scholarship** at the **University of California, Berkeley**.

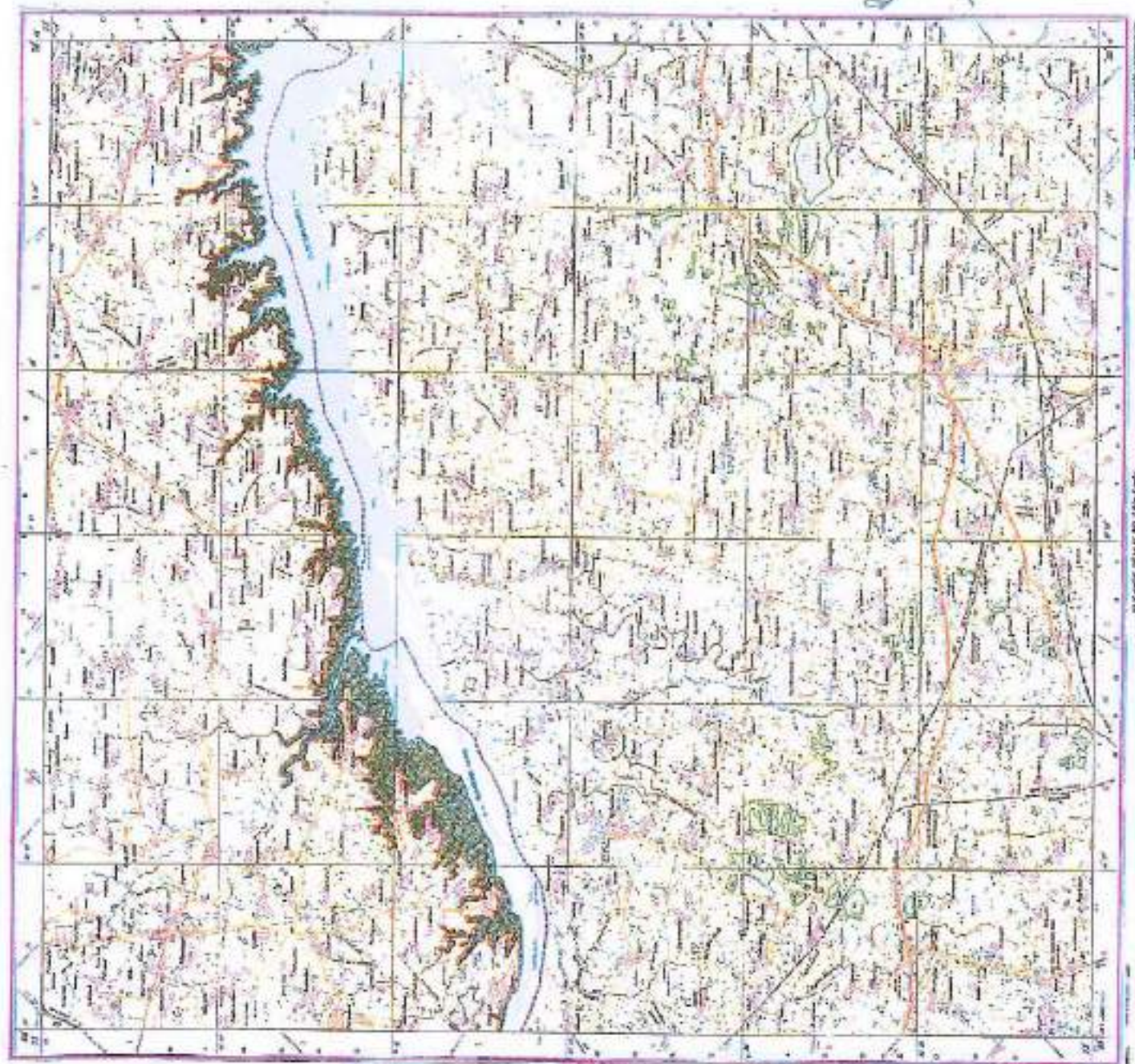
2. **Who is the author of the letter?**
The letter is written by **Dr. Jane Smith**, who is the **Professor of Mathematics** at the **University of California, Berkeley**.

3. **What is the subject of the letter?**
The subject of the letter is the **recommendation** of **John Doe** for a **scholarship** at the **University of California, Berkeley**.

4. **What are the key points mentioned in the letter?**
The key points mentioned in the letter are:
- John Doe is a **high-achieving student** who has consistently earned **A's** in all of his courses.
- He is a **member of the Math Club** and has been **active in various competitions**.
- He is a **leader in his class** and has helped many of his classmates with their studies.

5. **What is the conclusion of the letter?**
The conclusion of the letter is that **Dr. Smith** **highly recommends** John Doe for the **scholarship** at the **University of California, Berkeley**.

Tanaka
T. M.
D. M.
M. M.
M. M.



No. F45C10

Docum: 130,000

[illegible][illegible][illegible]

1. *Introduction*
 2. *Methodology*
 3. *Results*
 4. *Discussion*
 5. *Conclusion*
 6. *References*
 7. *Appendix*
 8. *Index*
 9. *Table of Contents*
 10. *Table of Figures*
 11. *Table of Tables*
 12. *Table of Equations*
 13. *Table of Symbols*
 14. *Table of Abbreviations*
 15. *Table of Acronyms*
 16. *Table of Units*
 17. *Table of Constants*
 18. *Table of Variables*
 19. *Table of Parameters*
 20. *Table of Functions*
 21. *Table of Operators*
 22. *Table of Symbols*
 23. *Table of Abbreviations*
 24. *Table of Acronyms*
 25. *Table of Units*
 26. *Table of Constants*
 27. *Table of Variables*
 28. *Table of Parameters*
 29. *Table of Functions*
 30. *Table of Operators*
 31. *Table of Symbols*
 32. *Table of Abbreviations*
 33. *Table of Acronyms*
 34. *Table of Units*
 35. *Table of Constants*
 36. *Table of Variables*
 37. *Table of Parameters*
 38. *Table of Functions*
 39. *Table of Operators*
 40. *Table of Symbols*
 41. *Table of Abbreviations*
 42. *Table of Acronyms*
 43. *Table of Units*
 44. *Table of Constants*
 45. *Table of Variables*
 46. *Table of Parameters*
 47. *Table of Functions*
 48. *Table of Operators*
 49. *Table of Symbols*
 50. *Table of Abbreviations*
 51. *Table of Acronyms*
 52. *Table of Units*
 53. *Table of Constants*
 54. *Table of Variables*
 55. *Table of Parameters*
 56. *Table of Functions*
 57. *Table of Operators*
 58. *Table of Symbols*
 59. *Table of Abbreviations*
 60. *Table of Acronyms*
 61. *Table of Units*
 62. *Table of Constants*
 63. *Table of Variables*
 64. *Table of Parameters*
 65. *Table of Functions*
 66. *Table of Operators*
 67. *Table of Symbols*
 68. *Table of Abbreviations*
 69. *Table of Acronyms*
 70. *Table of Units*
 71. *Table of Constants*
 72. *Table of Variables*
 73. *Table of Parameters*
 74. *Table of Functions*
 75. *Table of Operators*
 76. *Table of Symbols*
 77. *Table of Abbreviations*
 78. *Table of Acronyms*
 79. *Table of Units*
 80. *Table of Constants*
 81. *Table of Variables*
 82. *Table of Parameters*
 83. *Table of Functions*
 84. *Table of Operators*
 85. *Table of Symbols*
 86. *Table of Abbreviations*
 87. *Table of Acronyms*
 88. *Table of Units*
 89. *Table of Constants*
 90. *Table of Variables*
 91. *Table of Parameters*
 92. *Table of Functions*
 93. *Table of Operators*
 94. *Table of Symbols*
 95. *Table of Abbreviations*
 96. *Table of Acronyms*
 97. *Table of Units*
 98. *Table of Constants*
 99. *Table of Variables*
 100. *Table of Parameters*
 101. *Table of Functions*
 102. *Table of Operators*
 103. *Table of Symbols*
 104. *Table of Abbreviations*
 105. *Table of Acronyms*
 106. *Table of Units*
 107. *Table of Constants*
 108. *Table of Variables*
 109. *Table of Parameters*
 110. *Table of Functions*
 111. *Table of Operators*
 112. *Table of Symbols*
 113. *Table of Abbreviations*
 114. *Table of Acronyms*
 115. *Table of Units*
 116. *Table of Constants*
 117. *Table of Variables*
 118. *Table of Parameters*
 119. *Table of Functions*
 120. *Table of Operators*
 121. *Table of Symbols*
 122. *Table of Abbreviations*
 123. *Table of Acronyms*
 124. *Table of Units*
 125. *Table of Constants*
 126. *Table of Variables*
 127. *Table of Parameters*
 128. *Table of Functions*
 129. *Table of Operators*
 130. *Table of Symbols*
 131. *Table of Abbreviations*
 132. *Table of Acronyms*
 133. *Table of Units*
 134. *Table of Constants*
 135. *Table of Variables*
 136. *Table of Parameters*
 137. *Table of Functions*
 138. *Table of Operators*
 139. *Table of Symbols*
 140. *Table of Abbreviations*
 141. *Table of Acronyms*
 142. *Table of Units*
 143. *Table of Constants*
 144. *Table of Variables*
 145. *Table of Parameters*
 146. *Table of Functions*
 147. *Table of Operators*
 148. *Table of Symbols*
 149. *Table of Abbreviations*
 150. *Table of Acronyms*
 151. *Table of Units*
 152. *Table of Constants*
 153. *Table of Variables*
 154. *Table of Parameters*
 155. *Table of Functions*
 156. *Table of Operators*
 157. *Table of Symbols*
 158. *Table of Abbreviations*
 159. *Table of Acronyms*
 160. *Table of Units*
 161. *Table of Constants*
 162. *Table of Variables*
 163. *Table of Parameters*
 164. *Table of Functions*
 165. *Table of Operators*
 166. *Table of Symbols*
 167. *Table of Abbreviations*
 168. *Table of Acronyms*
 169. *Table of Units*
 170. *Table of Constants*
 171. *Table of Variables*
 172. *Table of Parameters*
 173. *Table of Functions*
 174. *Table of Operators*
 175. *Table of Symbols*
 176. *Table of Abbreviations*
 177. *Table of Acronyms*
 178. *Table of Units*
 179. *Table of Constants*
 180. *Table of Variables*
 181. *Table of Parameters*
 182. *Table of Functions*
 183. *Table of Operators*
 184. *Table of Symbols*
 185. *Table of Abbreviations*
 186. *Table of Acronyms*
 187. *Table of Units*
 188. *Table of Constants*
 189. *Table of Variables*
 190. *Table of Parameters*
 191. *Table of Functions*
 192. *Table of Operators*
 193. *Table of Symbols*
 194. *Table of Abbreviations*
 195. *Table of Acronyms*
 196. *Table of Units*
 197. *Table of Constants*
 198. *Table of Variables*
 199. *Table of Parameters*
 200. *Table of Functions*
 201. *Table of Operators*
 202. *Table of Symbols*
 203. *Table of Abbreviations*
 204. *Table of Acronyms*
 205. *Table of Units*
 206. *Table of Constants*
 207. *Table of Variables*
 208. *Table of Parameters*
 209. *Table of Functions*
 210. *Table of Operators*
 211. *Table of Symbols*
 212. *Table of Abbreviations*
 213. *Table of Acronyms*
 214. *Table of Units*
 215. *Table of Constants*
 216. *Table of Variables*
 217. *Table of Parameters*
 218. *Table of Functions*
 219. *Table of Operators*
 220. *Table of Symbols*
 221. *Table of Abbreviations*
 222. *Table of Acronyms*
 223. *Table of Units*
 224. *Table of Constants*
 225. *Table of Variables*
 226. *Table of Parameters*
 227. *Table of Functions*
 228. *Table of Operators*
 229. *Table of Symbols*

1. **Find the area of the shaded region.**
 The figure shows a square with side length 10. Inside the square, there is a shaded region. The shaded region is a square with side length 4, centered within the larger square. The unshaded region consists of four congruent right triangles, each with legs of length 3 and 3, and a hypotenuse of length 4. The area of the shaded region is $4^2 = 16$. The area of the unshaded region is $4 \times \left(\frac{1}{2} \times 3 \times 3\right) = 18$. The total area of the square is $10^2 = 100$. The area of the shaded region is 16 .

1. *What is the purpose of the study?*

गंगा एवं दामोदर बेसीन अंतर्गत Rain Water Harvesting Structure की सूची :-

S.N	Name of Site	District	No. of Recharge Pit	Up to date progress	Remarks
	(क) गंगा बेसीन				
	3	5	6		15
1	Aadiwasi Kalyan Chhatrawas National School, Dumka	Dumka	1	Work in Progress	
2	Chief Engineer Office Minor Irrigation Dumka		1	Completed	
3	District Control Room, Dumka		1	Completed	
4	District High school, Dumka		1	Completed	
5	Engineering College Dumka		2	Completed	
6	Girls High School, Dumka		2	Work in Progress	
7	Muk Badhir Vidhyalaya, Dumka		2	Completed	
8	Polytechnic College, Dumka		2	Completed	
9	Primary School Mahaudangal, Dumka		1	Completed	
10	SP College, Dumka		2	Completed	
11	SP Law College, Dumka		2	Completed	
12	SP Mahila College, Dumka		2	Completed	
13	Sri Ramkrishna Middle School dudhani, Dumka		1	Completed	
14	Kasturba vidyalaya Jama		2	Completed	
15	Middle School Jama		1	Completed	
16	BSNL Office, Godda	Godda	2	Work in Progress	
17	Circuit House, Godda		1	Work in Progress	
18	Community Building Cum Kalyan Mandap, Godda		1	Work in Progress	
19	District Agriculture Office, Godda		1	Work in Progress	
20	District Cow Development Office, Godda		1	Completed	
21	Godda College, Godda		1	Completed	
22	Govt. UMS Lukhuki Dachachak, Godda		1	Completed	
23	High School, Godda		1	Completed	

24	High School Malini, Godda		2	Complited	
25	Women's College, Godda		1	Complited	
26	Girls High School, Pathargama		3	2 nos completed 1 nos in progress	
27	Primary Health Centre Rupuchak, Pathargama		3	Complited	
28	UMS Rupuchak, Pathargama		3	Complited	
29	AS College, Deoghar	Deoghar	2	Work in Progress	
30	Deoghar College, Deoghar		3	Work in Progress	
31	Girls ITI Basuadih, Deoghar		2	Work in Progress	
32	Government ITI, Deoghar		3	Work in Progress	
33	Jila Niyojanalay, Deoghar		1	Work in Progress	
34	Panchayat Traning Instute, Deoghar		1	Work in Progress	
35	R Mitra High School, Deoghar		2	Work in Progress	
36	Pariyojna Balika Uchh Vidyalaya, Koderma	Koderma	1	Work in Progress	
37	Govt. High School, Koderma		2	Work in Progress	
38	Govt. Polytechnic College, Koderma		2	Work in Progress	
39	Jagannath Jain Mahavidyalaya, Koderma		1	Work in Progress	
40	Zila School, Giridih	Giridih	1	Work in Progress	
41	Ram Krishn Vivekanand Mahavidyalaya, Bagodar		1	Work in Progress	
42	Kendriya Vidyalaya, Giridih		1	Work in Progress	
43	Sariya Inter College, Sariya,		1	Work in Progress	
44	Jawahar Navodya Vidyalaya, Gandey		1	Work in Progress	
45	Giridih Plus Two High School, Buxidih, Giridih		1	Work in Progress	
46	Balika Uchch Vidyalay, Saria		1	Work in Progress	
47	Plus Two High School, Bagodar		1	Work in Progress	
48	Sadar hospital, Giridih		1	Work in Progress	
49	Giridih College, Giridih		1	Work in Progress	
	Total:-		74		

(ख) दामोदर बेसीन					
1	Public High School Kujju, mandu	Ramgarh	1	Work in Progress	
2	Minor Irrigation Division, Ramgarh		1	Work in Progress	
3	Utkramit High School, Morangi, Mandu		1	Work in Progress	
4	polytechnic college, Gola		2	Work in Progress	
5	Ramgarh College, Ramgarh		2	Work in Progress	
6	Samudayik Sawasthya Kendra, Gola		1	Work in Progress	
7	Sadar Hospital, Ramgarh		1	Work in Progress	
8	Van Bhawan, Ramgarh		1	Work in Progress	
9	Samudayik Sawasthya Kendra, Mandu		1	Work in Progress	
10	Indira Gandhi Girls School, Hazaribhag	Hazaribagh	1	Completed	
11	Govt. Middle School, Sihwar hazaribhag		1	Completed	
12	Meru BSF Camp, Sihwar Hazaribhag		1	Completed	
13	High School, Tati Jhariya		1	Completed	
14	Vinoba Bhave university, Hazaribhag		2	Completed	
15	Saint Columbas College, Hazaribhag		1	Completed	
16	Govt. ITI College, Hazaribhag		1	Completed	
17	Irrigation Colony, Hazaribhag		1	Completed	
18	KB Women's College, Hazaribhag		2	Completed	
19	Plus 2 High School, Bishnagarh		1	Completed	
20	Bokaro Ispat Vidyalaya, Sector 12/A Bokaro, Chas	Bokaro	1	Work in Progress	
21	Path Nirman Vibhag, Path Parmandal Bokaro, Chas		1	Work in Progress	
22	10+2 High School, Sector 9/A Bokaro Chas		1	Work in Progress	
23	Sub Division Hospital, Bermo		1	Work in Progress	
24	Govt. Women's Polytechnic Khutri, Jaridih		1	Work in Progress	
25	Govt. Polytechnic Khutri, Jaridih		1	Work in Progress	
26	Bokaro Ishpat Senior Secondary School, BS City, Sector 3, Chas		1	Work in Progress	

27	BSL +2 High School Sector-12, BS City, Chas	1	Work in Progress	
28	Plus Two High School, Petawar	1	Work in Progress	
	Total:-	32		
	Grand Total (Dumka+Godda+Deoghar+Koderma+Giridih+ Ramgarh+Hazarihag+Bokaro)	106		

AK

h

गंगा एवं दामोदर बेसीन अन्तर्गत Water Bodies के Restoration कार्य की सूची एवं अद्यतन प्रगति

क्र०	योजना का नाम	जिला	प्रखंड	भौतिक प्रगति	अंक
(क)- गंगा बेसीन					
1	खदयपुरा मध्यम सिंचाई योजना का जीर्णोद्धार	लातेहार	खतौहार	100%	
2	खुंटगडी बांध का जीर्णोद्धार	लातेहार	लातेहार	100%	
3	जमुनदाहा मध्यम सिंचाई योजना का जीर्णोद्धार	पलामू	हरिहरगंज	100%	
4	अखरीतरी मध्यम सिंचाई योजना का जीर्णोद्धार	पलामू	हरिहरगंज	100%	
5	गीम आहर का जीर्णोद्धार	पलामू	हैदरनगर	100%	
6	जाठरी आहर का जीर्णोद्धार	पलामू	पांडू	100%	
7	मजुराहा मध्यम सिंचाई योजना का जीर्णोद्धार	पलामू	पांडू	100%	
8	मजदा आहर का जीर्णोद्धार	पलामू	तरहस्सी	100%	
9	कसनार मध्यम सिंचाई योजना का जीर्णोद्धार	पलामू	तरहस्सी	90%	
10	बनवारी आहर का जीर्णोद्धार	पलामू	तरहस्सी	100%	
11	बनकुरवा आहर का जीर्णोद्धार	पलामू	पांकी	100%	
12	सितवा आहर का जीर्णोद्धार	पलामू	पांकी	100%	
13	मुझमोझी आहर का जीर्णोद्धार	पलामू	पांकी	100%	
14	ग्राम-चन्द्रपुरा में बड़की आहर का जीर्णोद्धार	पलामू	पांकी	100%	
15	सिवलेवा मध्यम सिंचाई योजना का जीर्णोद्धार	पलामू	लेस्लीगंज	100%	
16	कोसियारा बांध का जीर्णोद्धार	पलामू	लेस्लीगंज	100%	
17	लाल बांध आहर का जीर्णोद्धार	पलामू	तरहस्सी	100%	
18	शहर बांध का जीर्णोद्धार	पलामू	चैनपुर	100%	
19	बिवाचाड़ आहर का जीर्णोद्धार	पलामू	चैनपुर	100%	
20	तेवर मध्यम सिंचाई योजना का जीर्णोद्धार	पलामू	मनाडु	100%	
21	हुमनाहा मध्यम सिंचाई योजना का जीर्णोद्धार	पलामू	पड़वा	100%	
22	रनपुरी पड़ाव मध्यम सिंचाई योजना का जीर्णोद्धार	पलामू	सातवरवा	100%	
23	बिरहा नाला मध्यम सिंचाई योजना का जीर्णोद्धार	गढ़वा	बरगड़	100%	
24	भलुही बांध का जीर्णोद्धार	गढ़वा	रंका	100%	
25	सुगही मध्यम सिंचाई योजना का जीर्णोद्धार	गढ़वा	गढ़वा	100%	
26	गावाडीह आहर का जीर्णोद्धार	झारखंड	चन्दबाड़ा	100%	
27	चेपकिया मध्यम सिंचाई योजना का जीर्णोद्धार	झारखंड	पूरी दुम्डी	100%	
28	रानी बांध तालाब का जीर्णोद्धार	झारखंड	तोपचौकी	100%	
29	सातरी ठाकुर बांध (तालाब) का जीर्णोद्धार	झारखंड	तोपचौकी	100%	
30	बकसपुरा पुराना तालाब का जीर्णोद्धार	झारखंड	मोदिनपुर	100%	

क्र०	योजना का नाम	जिला	प्रखंड	भौतिक प्रगति	अधि०
31	चक्रपुलैया मध्यम सिंचाई योजना का जीर्णोद्धार	धनबाद	गोविन्दपुर	100%	
32	पुराना बांध का जीर्णोद्धार	धनबाद	गोविन्दपुर	100%	
33	खुलिया तालाब का जीर्णोद्धार	धनबाद	निरसा	100%	
34	सिजुआ बड़ा बांध तालाब का जीर्णोद्धार	धनबाद	निरसा	100%	
35	लखीपुर बांध का जीर्णोद्धार	धनबाद	कलियासोल	100%	
36	तिलतोरिया बांध का जीर्णोद्धार	धनबाद	अगरखुण्ड	100%	
37	बदरमुआ आहर का जीर्णोद्धार	बलराम	पथलगड़ा	100%	
38	बटगाही आहर का जीर्णोद्धार	बलराम	फुन्दा	100%	
39	बड़की आहर का जीर्णोद्धार	बलराम	लवालीग	100%	
40	खडी आहर का जीर्णोद्धार	बलराम	लवालीग	100%	
41	बनहा आहर का जीर्णोद्धार	बलराम	कान्हाबट्टी	100%	
42	घोषे आहर का जीर्णोद्धार	बलराम	हटरगंज	100%	
43	चतुरी मॉसिगयो के क्षतिग्रस्त एम्पाइरेंट एवं नहर का जीर्णोद्धार	बलराम	हटरगंज	85%	
44	सुखवाई आहर का जीर्णोद्धार	बलराम	प्रतापपुर	100%	
45	खास बांध गड़जोरा मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	देवघर	100%	
46	सेवाईजोर मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	सारठ	100%	
47	अराजोरी मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	सारठ	100%	
48	रंगगाँव मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	पालोजोरी	100%	
49	कमलिया मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	करी	100%	
50	दासडीह मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	करी	100%	
51	नवाबांध मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	सारको	100%	
52	लखरडीह मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	सारको	100%	
53	कोन्दुआ मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	देवीपुर	100%	
54	गठकदिवा मध्यम सिंचाई योजना का जीर्णोद्धार	देवघर	देवीपुर	100%	
55	हथबंदा मध्यम सिंचाई योजना का जीर्णोद्धार	जामताड़ा	करगटाड़	100%	
56	फुलबंदी मध्यम सिंचाई योजना का जीर्णोद्धार	जामताड़ा	करगटाड़	100%	
57	साठेयबांध मॉसिगयो का जीर्णोद्धार	जामताड़ा	कतोहपुर	100%	
58	शंकरपुर मध्यम सिंचाई योजना का जीर्णोद्धार	जामताड़ा	नारायणपुर	100%	
59	भैयाडीह मध्यम सिंचाई योजना का जीर्णोद्धार	जामताड़ा	नारायणपुर	100%	
60	नायछान्द मध्यम सिंचाई योजना का जीर्णोद्धार	जामताड़ा	जामताड़ा	100%	
61	पसोई मध्यम सिंचाई योजना का जीर्णोद्धार	जामताड़ा	जामताड़ा	100%	
62	चुनुकोदार मध्यम सिंचाई योजना का जीर्णोद्धार	जामताड़ा	नाला	100%	

क्र०	योजना का नाम	जिला	प्रखंड	वैशेषिक प्रगति	शगिद
63	राजदाह मध्यम सिंचाई योजना का जीर्णोद्धार	जामताड़ा	कुण्डरित	100%	
64	नरजोरी मध्यम सिंचाई योजना का जीर्णोद्धार	जामताड़ा	कुण्डरित	100%	
65	मयुरकोला मध्यम सिंचाई योजना का जीर्णोद्धार	साहेबगंज	दरहवा	100%	
66	बड़ाब्यारी मध्यम सिंचाई योजना का जीर्णोद्धार	साहेबगंज	बोरियो	100%	
67	वीचपुरा मध्यम सिंचाई योजना का जीर्णोद्धार	साहेबगंज	बोरियो	100%	
68	सिंगलादाब मध्यम सिंचाई योजना का जीर्णोद्धार	साहेबगंज	पतना	100%	
69	हीरबोध मध्यम सिंचाई योजना का जीर्णोद्धार	पाकुड़	पाकुड़	100%	
70	बन्तोयान मध्यम सिंचाई योजना का जीर्णोद्धार	पाकुड़	पाकुड़िया	100%	
71	बड़ा मोरलान मध्यम सिंचाई योजना का जीर्णोद्धार	पाकुड़	पाकुड़	100%	
72	साठेय बांध मध्यम सिंचाई योजना का जीर्णोद्धार	गोड्डा	सुन्दरपहाड़ी	100%	
73	बड़हरा बांध का जीर्णोद्धार	गोड्डा	पोडेयाहाट	100%	
74	बीजा देववन्धा में लपका पोखर का जीर्णोद्धार	गोड्डा	पोडेयाहाट	100%	
75	मालीगोड़ा मध्यम सिंचाई योजना का जीर्णोद्धार	गोड्डा	बोआसीजोर	100%	
76	चंदना बांध मसिं०यो० का जीर्णो०	गोड्डा	बोआसीजोर	100%	
77	ग्राम टोलाटांड में विशुन आहर का जीर्णो०	गिरिडीह	देवरी	100%	
78	किरागो मसिं०यो० का जीर्णोद्धार	गिरिडीह	देवरी	100%	
79	छोटीटांड आहर का जीर्णोद्धार	गिरिडीह	घनवार	100%	
80	पुरना नगर ग्राम में दुलो आहर मसिं०यो० का जीर्णोद्धार	गिरिडीह	घनवार	100%	
81	घरगुली मध्यम सिंचाई योजना का जीर्णो०	गिरिडीह	बगोवर	65%	
82	चरगो मसिं०यो० का जीर्णोद्धार	गिरिडीह	बिरनी	100%	
83	चधगुर्गी मसिं०यो० का जीर्णोद्धार	गिरिडीह	बिरनी	100%	
84	मीजा-गान्धो में लोहरा आहर का जीर्णोद्धार	गिरिडीह	जमुआ	100%	
85	किरागिवाडीह आहर का जीर्णोद्धार	गिरिडीह	जमुआ	100%	
86	ग्राम चुगलो में बड़ा आहर का जीर्णो०	गिरिडीह	गिरिडीह	90%	
87	ग्राम प्रधानडीह में गेंजरा सिंचा आहर का जीर्णोद्धार	गिरिडीह	जुमरी	100%	
88	जीतपुंखी आहर का जीर्णोद्धार	गिरिडीह	जुमरी	100%	
89	उरौ मसिं०यो० का जीर्णोद्धार	गिरिडीह	सरिया	70%	
90	चिचाकी मसिं०यो० का जीर्णोद्धार	गिरिडीह	सरिया	100%	
91	जमुआ आहर का जीर्णोद्धार	गिरिडीह	पीरटाड़	100%	
92	खुखरा ग्राम में बुडवा आहर का जीर्णोद्धार	गिरिडीह	पीरटाड़	100%	
93	नायकडीह मसिं०यो० का जीर्णोद्धार	गिरिडीह	गान्देय	100%	
94	महुआर मसिं०यो० का जीर्णोद्धार	गिरिडीह	बेंगाबाद	100%	

क्र०	योजना का नाम	जिला	प्रखंड	भौतिक प्रगति	अधि०
95	बुढ़वा आहर का जीर्णोद्धार	गिरिडीह	रावों	100%	
96	भोगरायडीह म०सि०यो० का जीर्णोद्धार	गिरिडीह	रावों	100%	
97	सहारा बांध मध्यम सिंचाई योजना का जीर्णोद्धार	दुमका	जमुण्डी	97%	
98	नावाडीह बांध मध्यम सिंचाई योजना का जीर्णो०	दुमका	जमुण्डी	98%	
99	दुन्दुवा मध्यम सिंचाई योजना का जीर्णो०	दुमका	गोपीकान्दर	100%	
100	बड़ा पाथर म०सि० योजना का जीर्णो०	दुमका	गोपीकान्दर	100%	
101	लतवेदा म०सि० योजना का जीर्णो०	दुमका	शिकारीपाड़ा	100%	
102	असना म०सि० योजना का जीर्णो०	दुमका	शिकारीपाड़ा	35%	
103	त्रिभुतया बांध म०सि०यो० का जीर्णो०	दुमका	रामगढ़	100%	
104	भीखनपुर म०सि०यो० का जीर्णो०	दुमका	जाना	80%	
105	दुधानी मध्यम सिंचाई योजना का जीर्णो०	दुमका	जाना	93%	
106	नागवास्की बांध म०सि०यो० का जीर्णोद्धार	दुमका	सरैयाहाट	100%	
107	बैरा बांध म०सि०यो० का जीर्णोद्धार	दुमका	सरैयाहाट	94%	
108	धन्वे बांध का जीर्णोद्धार	दुमका	सरैयाहाट	100%	
109	बड़ा बांध म०सि० योजना का जीर्णो०	दुमका	मत्तलिया	100%	
110	मांझी बांध म०सि० योजना का जीर्णो०	दुमका	मत्तलिया	100%	
111	बड़ा काटीमुण्ड म०सि० योजना (नीन बांध) का जीर्णो०	दुमका	काटीमुण्ड	100%	
112	बड़ा बांध म०सि०यो० का जीर्णोद्धार	दुमका	दुमका	100%	
113	गदनगढ़िया बांध म०सि०यो० का जीर्णोद्धार	दुमका	दुमका	100%	
114	छाल पोखर म०सि० योजना का जीर्णो०	दुमका	रानेश्वर	98%	
115	गोना बांध म०सि० योजना का जीर्णो०	दुमका	रानेश्वर	100%	
(ख) दामोदर बेसीन					
1	राम सागर मध्यम सिंचाई योजना का जीर्णोद्धार	हजारीबाग	ईचाक	100%	
2	जमुआरी डेम का जीर्णोद्धार	हजारीबाग	ईचाक	100%	
3	बेलकापी आहर का जीर्णोद्धार	हजारीबाग	बरकटदा	100%	
4	बुघई म०सि०यो० का जीर्णो०	हजारीबाग	बरकटदा	75%	
5	जोरदाग मध्यम सिंचाई योजना का जीर्णोद्धार	हजारीबाग	कंरेहारी	100%	
6	जमुआ बेलतु आहर का जीर्णोद्धार	हजारीबाग	कंरेहारी	100%	
7	सलगा नाला मध्यम सिंचाई योजना का जीर्णोद्धार	हजारीबाग	कंरेहारी	100%	
8	लीनगर मध्यम सिंचाई योजना का जीर्णोद्धार	हजारीबाग	बरही	0%	
9	वेगडवा डेम का जीर्णोद्धार	हजारीबाग	बरही	65%	
10	पेदुला आहर का जीर्णोद्धार	हजारीबाग	मोपारण	100%	

क्र०	योजना का नाम	जिला	प्रखंड	भौतिक प्रगति	अंश
11	चपरी आहर का जीर्णोद्धार	हजारीबाग	भौनारण	100%	
12	बोनई खुर्द मध्यम सिंचाई योजना का जीर्णोद्धार	हजारीबाग	पदगा	100%	
13	बड़की आहर का जीर्णोद्धार	हजारीबाग	कटकमसाडी	100%	
14	बाबु बलिया आहर का जीर्णोद्धार	हजारीबाग	बड़कागँव	100%	
15	दुनदुगड़ा आहर का जीर्णोद्धार	हजारीबाग	बड़कागँव	100%	
16	फुलता आहर का जीर्णोद्धार	हजारीबाग	भसकुशा	100%	
17	घोमियाडीह आहर मासिंयोड का जीर्णोद्धार	समगढ़	गोला	100%	
18	कूसूमकनारी आहर मध्यम सिंचाई योजना का जीर्णोद्धार	समगढ़	गोला	90%	
19	कोतरगढ़ आहर का जीर्णोद्धार	समगढ़	हुलमी	100%	
20	घाटघोरैया मध्यम सिंचाई योजना का जीर्णोद्धार	हजारीबाग	विशुगढ़	100%	
21	ठाकुर बांध आहर मध्यम सिंचाई योजना का जीर्णोद्धार	समगढ़	गोला	100%	
22	बेतुलकलाम ग्राम में सरकारी आहर का जीर्णोद्धार	समगढ़	गोला	100%	
23	बांका गढ़ा आहर मध्यम सिंचाई योजना का जीर्णोद्धार	समगढ़	गोला	100%	
24	राम सागर बांध मध्यम सिंचाई योजना का जीर्णोद्धार	बोकारो	नावाडीह	100%	
25	थिरुडीह बड़का बांध मध्यम सिंचाई योजना का जीर्णोद्धार	बोकारो	नावाडीह	100%	
26	बड़का बांध मध्यम सिंचाई योजना का जीर्णोद्धार	बोकारो	भदपुरा	100%	
27	काला पत्थर बड़ा बांध मध्यम सिंचाई योजना का जीर्णोद्धार	बोकारो	भास	100%	
28	दयाल बांध का जीर्णोद्धार	बोकारो	मन्दनवारी	100%	

[Handwritten signature]

[Handwritten signature]

