

REPORT OF THE OVERSIGHT COMMITTEE, NGT, U.P, LUCKNOW**IN THE MATTER OF:-****ORIGINAL APPLICATION NO. 985-986/2019****IN RE : WATER POLLUTION BY TANNERIES AT JAJMAU,
KANPUR, UTTAR PRADESH****WITH****IN RE : WATER POLLUTION AT RANIA, KANPUR DEHAT &
RAKHI MANDI, KANPUR NAGAR, UTTAR PRADESH****INDEX**

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REPORT OF THE OVERSIGHT COMMITTEE IN COMPLIANCE OF THE ORDER OF HON'BLE THE NATIONAL GREEN TRIBUNAL PASSED IN THE O.A. NO. 985/2019 IN RE: WATER POLLUTION BY TANNERIES AT JAJMAU, KANPUR, UTTAR PRADESH WITH THE O.A. NO. 986/2019 IN RE: WATER POLLUTION AT RANIA, KANPUR DEHAT & RAKHI MANDI, KANPUR NAGAR, UTTAR PRADESH

The Hon'ble NGT, while dealing with **OAs No. 985 of 2019** and **986 of 2019** relating to the scientific disposal of chromium dumps at Rania, Kanpur Dehat and Rakhi Mandi, Kanpur Nagar, which have been in existence since 1976 and have inter alia resulted in contamination of ground water, thereby depriving the inhabitants of access to proper quality drinking water, has passed several orders on different dates for controlling pollution, restoring environment and improving the quality of life of the local people.

The Oversight Committee has reviewed the progress in this case and submitted its report to the Hon'ble NGT from time to time, the last being on 22.04.2022 supplemented further on 26.07.2022. After considering this report and the reports received from the CPCB and the UPPCB, the Hon'ble NGT passed an order on 23.09.2022, directing all concerns to take immediate remedial action for the disposal of legacy chromium waste and also take systemic measures to ensure that such situation does not arise in future. The current report reflecting the progress made after the order dated 23.09.2022 till 31st January, 2023 in compliance of the directions issued by the Hon'ble Tribunal is being submitted.

Compliance Status as on 31.01.2023

Sl No	Directions issued by the Hon'ble NGT	Action taken
1.	Contaminated sites need to be remediated in terms of removing of the waste and transporting to TSDF,	Scientific disposal of the chromium dump has started on 15.12.2022 in Khanchandpur Rania, Kanpur Dehat through two TSDFs, namely, (i) M/s

	<p>followed by due stabilization/immobilization.</p>	<p>Uttar Pradesh Waste Management Project, a Division of Re Sustainability Ltd, formally known as Ramky Enviro Engineers Ltd, & (ii) M/s Bharat Oil and Waste Management Ltd, Kumbhi, Akbarpur, Kanpur Dehat having processing capacities of 685 Mt/d and 100 Mt/d respectively. Quantities remediated till 31st January 2023 through these two TSDFs are (i) 12126.27 Mt and (ii) 1496.97 Mt respectively (total 13623.24 Mt).The entire quantity of waste is scheduled to be disposed of by May, 2023.</p> <p>The work-plans submitted by the TSDFs are being annexed herewith as Annexure-1.</p>
<p>2.</p>	<p>Contaminated chrome bearing ground water needs to be remediated by appropriate methodology and plan executed in a time bound manner. UPPCB and CPCB may immediately find out suitability of setting up of pilot plant model to treat chromium by way of setting up of RO/ Ultra/ Nano-Filtration process and application of Biotechnology to remove chromium as being done at other places for removal of arsenic/fluoride. This may be done in next three months and the cost of such</p>	<p>The UPPCB has informed that it is in the process of inviting EoI from various stakeholders for the submission of draft pilot plant project report with a view to deciding the possible technological remedies for ground water remediation at Khanchandpur, Rania, Kanpur Dehat. The work of ground water remediation could be started only after removal of lying chromium waste and stabilization of contaminated soil.</p>

	demonstration/ model project may be borne through EC funds of the UPPCB.	
3.	CPCB needs to get its directions dated: 18/23.08.2022 implemented on priority apart from action referred to in Para 11(1) above and also on other issues in a time bound manner.	<p>The UPPCB has informed that:</p> <p>(a) it has issued a letter dated 02.09.2022 with directions under Section 33-A of the Water Act 1974 to all tannery units for adopting cleaner technology with a view to minimize effluent quantity and use of chemicals as per the "Charter for Water Recycling and Pollution Prevention in Tanneries" in a time bound manner. Subsequently, directions for closure and disconnection of electricity of 213 tannery units were issued on 15.09.2022. However, no information on actual closure of these units and disconnection of electricity has been furnished.</p> <p>(b) Consequent upon issue of the letter dated 02.09.2022, Environmental Compensation has been imposed on the following defaulters on different dates:</p> <ul style="list-style-type: none"> (i) Rs. 48.375 lacs on GPCU, UP Jal Nigam (Urban) for the CETP Jajmau, Kanpur Nagar; (ii) Rs. 21.0 lacs on the KRMPL Agency for the STP Jajmau, Kanpur Nagar; and (iii) Again, Rs. 14.20 lacs on the KRMPL Agency for the STP Jajmau. <p>However, information on recovery of ECs imposed in the above and</p>

		<p>previous cases has not been shared.</p> <p>(c) The Central Leather Research Institute (CLRI) has granted license to 43 tannery units at Jajmau for use of Technology for waterless chrome tanning process. M/s Solidaridad Asia (in collaboration with Neatherlands Enterprise Agency) has installed brush type desalting machine in 18 tannery units, fitted water meter in 30 drums of 20 tannery units, has installed drum screen in 01 tannery unit, screen bar in 25 tannery units and tallow plant in 01 tannery unit at Jajmau, Kanpur. In addition, 2500 square feet tiles have been constructed from lime sludge obtained from 05 tannery units of Jajmau, Kanpur. Upgradation of PETP in 10 tannery units is proposed by M/s Solidaridad, Kanpur Centre in Jajmau, Kanpur. The member tannery units have also submitted undertaking of upgradation of PETP before commissioning of the new 20 MLD CETP.</p>
4.	<p>UPPCB needs to monitor remedial measures to prevent pollution from tanneries in realistic manner issuing guidelines, roaster operations, sealing of drums/pedals, cutting down the production capacities,</p>	<p>The UPPCB has informed that in order to control industrial pollution from tannery sector, it has issued several instructions on roaster operations, sealing of drums/pedals, cutting down the production capacities and, closure orders against the non-</p>

	closing the tanneries till compliance is achieved.	compliant tanneries. It also undertakes enforcement measures regularly. However, as per the data available on the UPECP web portal regarding water quality of river Ganga at Kanpur, its upstream and downstream continues to remain in D Category. Further, the water quality of river Ganga at downstream of Kanpur is worse than the upstream indicating that these units and other wastes add to the pollution of the river Ganga in this stretch. For details the Annexure-2 may kindly be referred.
5	NMCG needs to ensure that CETP at Jajmau is completed as already long delay has taken place.	As per information received from the NMCG 66.95% construction work of the 20 MLD CETP at Jajmau Kanpur, has been completed till 31 st January 2023. The targeted time for completion has been reported as August 2023. Having regard to the pace of work in past about 18 months, it does not appear to be realistic. Till June, 2021, the progress was about 30%. In February, 2022 it became 43.5%, in June, 2022 it was 54% and in January, 2023, it is reported as 67%. On each of these reporting dates, except the last one, an unrealistically closer target date was given. This has been pointed out in earlier reports of this Committee. In last 07 months, only 13% progress

		has been made. At the present pace, it appears difficult to complete the project by August, 2023.
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Recommendations:

1. The construction work of 20 MLD CETP at Jajmau, Kanpur has a history of very slow progress. In last 07 months, only 13% progress has been made. 33% work still remains to be done. At the present pace, it appears difficult to complete the project by August, 2023. Therefore, the NMCG may be directed to monitor the progress of the work closely and increase the pace so that the project is completed by the extended target date of August, 2023.
2. The work for the scientific disposal of dumped chromium has started and is due to be completed by May, 2023. The UPPCB may be directed to test the quality of ground water soon after it and take remedial measures for its treatment before use by the local people.
3. The UPPCB may be further directed to ensure the compliance of its directions regarding closure and recovery of EC imposed on various defaulting units from time to time.
4. The water quality of river Ganga in Kanpur Nagar and its upstream and downstream continue to remain in 'D' category even after taking several remedial measures by the concerned authorities. The water quality of river Ganga at downstream of Kanpur Nagar is worse than the upstream indicating that these units and other wastes add to the pollution of the river Ganga in this stretch. The concerned authorities may be directed to ensure that appropriate remedial measures are taken by them to reduce the pollution by tanneries and other polluting units in Kanpur.

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The Member Secretary, UPPCB is directed to send this report to the Registrar General, National Green Tribunal, Principal Bench, New Delhi for placing the same before the Hon'ble Tribunal with a copy to the Chief Secretary, Government of Uttar Pradesh for necessary action. The report also be uploaded on the website of the Committee.

22-Feb-23

22-Feb-23

X Anant Kumar Singh

Anant Kumar Singh
Member, Oversight Committee
Signed by: ANANT KUMAR SINGH

X SVS Rathore

Justice SVS Rathore
Chairman, Oversight Committee
Signed by: SURENDRA VIKRAM SINGH RATHORE

Feb 22, 2023

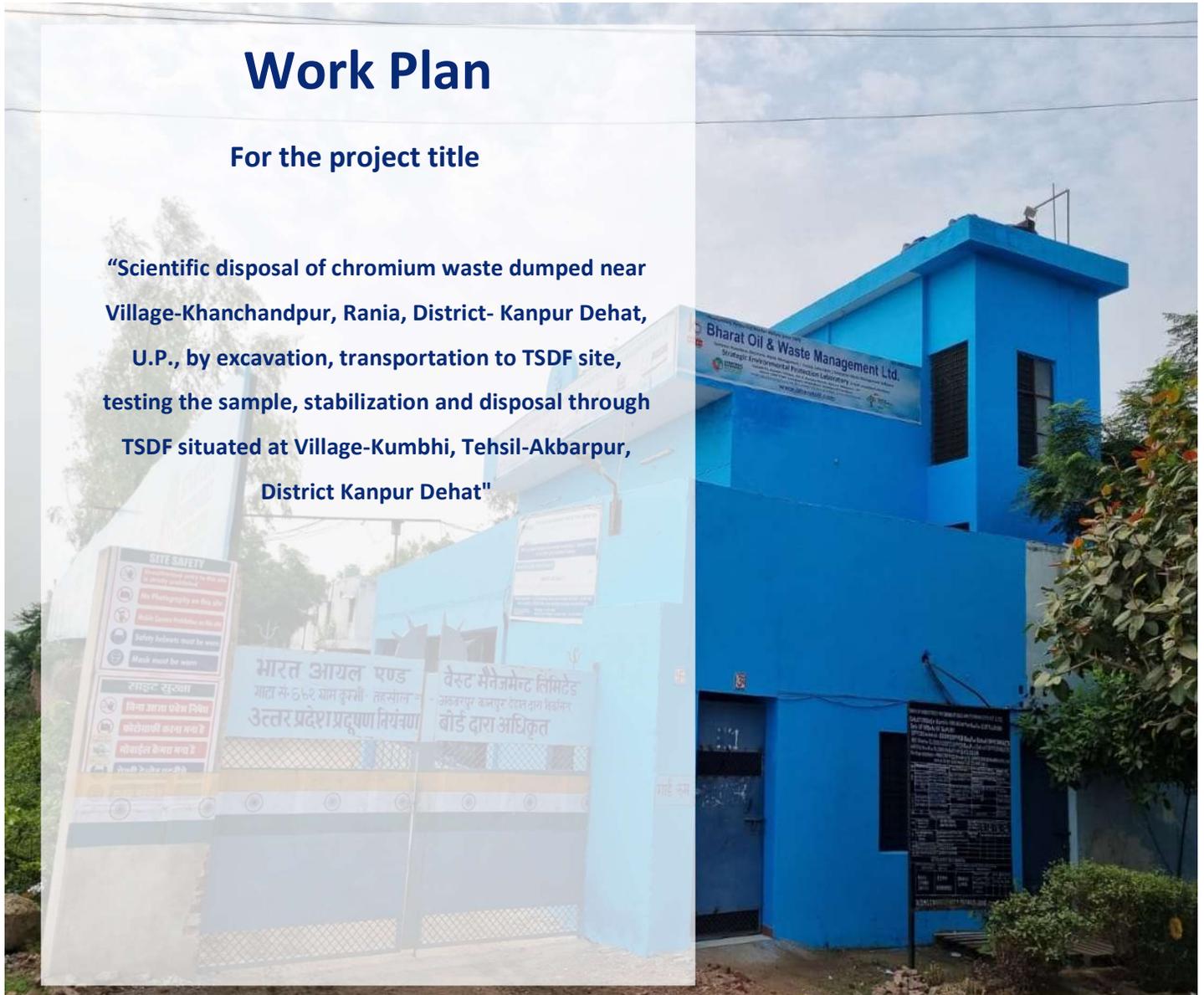
Annexures: As above

Please visit our website: oscngt.upsdc.gov.in for more information.

Work Plan

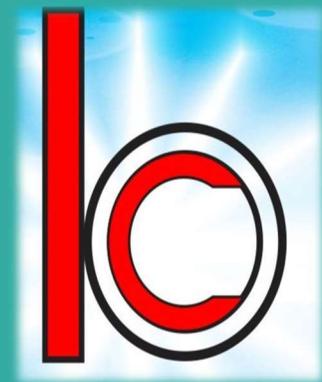
For the project title

"Scientific disposal of chromium waste dumped near Village-Khanchandpur, Rania, District- Kanpur Dehat, U.P., by excavation, transportation to TSDF site, testing the sample, stabilization and disposal through TSDF situated at Village-Kumbhi, Tehsil-Akbarpur, District Kanpur Dehat"



Bharat Oil & Waste Management Ltd.

Plot No-672, Village-Kumbhi, Tehsil-Akbarpur, District-Kanpur Dehat (U.P)



Work Objective

To treat (Chemical treatment) the Chromium waste (BCS) from the Raniya Khanchandpur, Kanpur Dehat dumping site within the given timeframe as per the Memorandum of Understanding.

Timeline	Site Preparation at Rania as per MoU/Area allocated	Site Preparation at TSDF as per MoU	Safety Training to all stakeholders	STEP 1 Excavation starts	STEP 2 Disposal of 500 MT	STEP 3 Disposal of 1500 MT	STEP 4 Disposal of 1500 MT	STEP 4 Disposal of 1500 MT	Final Step (Submission of Work Completion Certificate & All records of subject along with final bills)
Before Excavation									
15 Dec 2022									
Dec 2022									
Jan 2023									
Feb 2023									
March 2023									
April 2023									
Note: Invoice will be submitted to 7 th day of every month.									

Legend:

	Work Completed
	Work to be completed

S. No.	Work	Status	Estimated Timeline
1	Entry Permission to allotted work area handover by ADM (E) 1. Excavation level confirmation from sub committee	Done	As per MoU
2	Site Preparation at Rania 1) Tyre wash 2) Barricading through geo-net to avoid dust spread. 3) Water spraying arrangements for dust suppression 4) Safety Arrangements 5) Offices/ Security 6) Other arrangement for paper works and record keeping 7) Deployment of man power		As per MoU
3	Site Preparation at TSDF Reagents/ Equipment's/ Safety/ Stockpiles arrangement/ Stabilization arrangements.		As per MoU
4	Safety Training to all stakeholder.		12 December 2022
5	Work Inauguration		15th December 2022
6	Disposal of 500 MT		Till 31 st December 2022
7	Invoice Submission from 15 to 31 st December 2022		Shall be submitted on 10 th January 2023.
8	Disposal of 1500 MT of Waste		Till 31 st January 2023
8	Invoice Submission for January 2023		By 7 th February 23
9	Disposal of 1500 MT of Waste		February 2023
10	Invoice Submission for February 2023		By 7 th March 23
11	Disposal of 1500 MT of Waste		March 2023
12	Invoice Submission for March 2023		7 th April 2023
13	Final Bill Submission		22 nd April 2023
14	Submission of Work Completion Certificate & All records of subject along with final bills		22 nd April 2023

WORK PLAN- SCIENTIFIC DISPOSAL OF CHROMIUM WASTE (DUMPED NEAR VILLAGE KHANCHANDPUR, RANIA, KANPUR DEHAT, UTTAR PRADESH - EXCAVATION, TRANSPORTATION TO TSDF SITE, STABILIZATION, TESTING THE SAMPLE AND DISPOSAL OF CHROMIUM WASTE DUMPED NEAR VILLAGE- KHANCHANDPUR, RANIA, DISTRICT- KANPUR DEHAT, U. P. AS PER THE MOU CONDITIONS.)

S. No.	Work	Status	Estimated Timeline
1	Entry Permission to allotted work area handover by ADM (E) along with mobilization advance. 1. Excavation level confirmation from sub committee	Request letter to be submitted on 22 nd November 2022	Done
2	Site Preparation at Rania 1) Tyre wash 2) Barricading through geo-net to avoid dust spread. 3) Water spraying arrangements for dust suppression 4) Safety Arrangements 5) Offices/ Security 6) Other arrangement for paper works and record keeping 7) Deployment of manpower		Done.
3	Site Preparation at TSDF Reagents/ Equipment's/ Safety/ Stockpiles arrangement/ Stabilization arrangements/ Cureing Bins & Ear marking the SLF and subsequent gridding.		Done.

4	Safety Training to all stakeholders.		Done.
5	Work Inauguration		15 th December 2022
6	Disposal of 1361.10 MT		December 2022
7	Invoice Submission for December 22		Shall be submitted on 9 th January 2023.
8	Disposal of 15,000.00 MT of Waste		January 2023
9	Invoice Submission for January 23		By 5 th February 23
10	Disposal of 18,000.00 MT of Waste		February 2023
11	Invoice Submission for February 23		By 5 th March 23
12	Disposal of 20,000.00 MT of Waste		March 2023
13	Invoice Submission for March 23		5 th April 2023
14	Disposal of 19,000.00 MT of Waste		April 2023
15	Invoice Submission for April 23		By 5 th May 2023
16	Disposal of 6500.00 MT of Waste		May 23
17	Final Bill Submission		May 23
18	Submission of Work Completion Certificate & All records of subject along with final bills.		May 2023

Annexure-2**COMPARISON OF WATER QUALITY OF RIVER GANGA AT THE UPSTREAM AND DOWNSTREAM OF KANPUR**

The water quality of river Ganga in and around Kanpur continues to be in 'D' category for several months. The water quality of river Ganga in the month of January, 2023 at downstream Kanpur is worse than that at upstream in respect of DO and BOD. The total coliform and faecal coliform levels have not been indicated in the information uploaded on the UPECP portal. Coliform related information is also not available for December, 2022. Therefore, the Committee referred the information regarding November, 2022, which indicates that at the downstream and upstream the DO level has fallen from 7.6 to 7.1; BOD has increased from 4.0 to 4.8; total coliform has increased from 3300 to 13000 and faecal coliform from 2700 to 7800, indicating clearly that this stretch of Kanpur has added to the pollution of river Ganga on all parameters available on the website.

The information available on the website in this regard is given in Tables I and II below:

Table – I**WATER QUALITY OF RIVER GANGA (UPSTREAM AND DOWNSTREAM OF KANPUR) IN JANUARY, 2023**

Sl No	Location of river Ganga around Kanpur	D.O (mg/ lt.)	BOD (mg/ lt.)	Total Coliform (MPN/100 ml)	Faecal coliform (MPN/100 ml)	Category
1	Upstream	10.90	3.60	*	*	D
2	Downstream	9.8	4.4	*	*	D
	Deterioration	1.1	0.8	*	*	

Table – II**WATER QUALITY OF RIVER GANGA (UPSTREAM AND DOWNSTREAM OF KANPUR) IN NVEMBER, 2022**

Sl No	Location of river Ganga around Kanpur	D.O (mg/ lt.)	BOD (mg/ lt.)	Total Coliform (MPN/100 ml)	Faecal coliform (MPN/100 ml)	Category
1	Upstream	7.6	4.0	3300	2700	D
2	Downstream	7.1	4.8	13000	7800	D
	Deterioration	0.5	0.8	9700	5100	

Source: Data uploaded on the UPECP web portal.