

Environmental Audit Report  
Banahi Sand Ghat at Morhar River  
Vill. - Banahi Ghat, Tehsil- Aamas, District- Gaya.Area- 6.0 Ha.

# ENVIRONMENTAL AUDIT REPORT OF BANAHI SAND GHAT OF GAYA DISTRICT ON MORHAR RIVER



FOR

**Bihar State Mining Corporation Limited**  
(Govt. Of Bihar Undertaking)

Date of Audit - 11.02.2022

Prepared By:

**COGNIZANCE RESEARCH INDIA PRIVATE LTD.**  
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Report Code	CRIPL/BSG/2022/01
Project	Banahi Sand Ghat at Morhar River Village- Banahi ghat, Tehsil- Aamas, Distt.- Gaya, Thana No.- 443, Khata No.-186, Khasra No.- 50, Area- 6.0 Ha.
Client	Bihar State Mining Corporation Ltd. (Govt. of Bihar Undertaking) Address– Room No. 164, Vikas Bhawan (New Secretariat), Bailey Rd. Patna– 800015.
Consultant	Cognizance Research India Pvt. Ltd. G-20, Sector – 117, Noida – 201301.
Audit Date	11 Feb 2022
Final Report	25.02.2022

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**DECLARATION OF THE AUDITOR:**

- We Cognizance Research India Pvt. Ltd. has been prepared the report independently.
- We have expertise in conducting environmental audits, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity.
- We have prepared this report as per the Work Order Scope issued vide letter no.03/vivid-53/21-611.
- Based on information provided to us by the project proponent, and in addition to the site visit conducted by us we have presented the results and conclusion.

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**AUDIT OBJECTIVES**

1. Implementation of Sustainable Sand Mining Management Guidelines 2020.
2. Use of Latest technology/Drone to Monitor the Mining activities.
3. Evaluation of the EC/CTE/CTO Compliances
4. Ensure conservation of the river equilibrium and its natural environment by protection and restoration of the ecological system. Mining companies maintain adequate control system to minimize environment damage impacts.
5. Ensure that the rivers are protected from bank and bed erosion beyond its stable profile.
6. Promotion of environmental awareness through participatory auditing process.

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**Scope of Work asPer the Work Order of BSMCL**

<b>S.no</b>	<b>Scope</b>	<b>Compliance</b>
1.	Ensure prevention of illegal mining with the use of drone and any other latest technology	Drone Survey Carried Out. Site Photos attached on <b>Page no.23-24</b>
2.	Submission of drone generated report in readable format including with statutory obligations	Drone Survey Carried Out. Site Photos attached on <b>Page no. 23-24</b>
3.	Evaluate compliances being done by the contractors with statutory obligations pertaining to Environmental Laws/CTE/CTO/EC	Complied in the Report
4.	Make recommendations to improve the environmental compliance of the contractors from time to time	Complied in the Report
5.	Ensure implementation of recommendation of the auditor by the contractors during the contract period	Will be complied after approval of the EA report.
6.	To identify emerging environmental concerns and evaluate environmental and safety conditions in sand mining	Complied in the report
7.	Assessment of the progress achieved in implementing the enforcement and monitoring guidelines for sand Mining 2020	Report is prepared following the guidelines for sand Mining 2020
8.	The auditor have to submit structured audit report inclusive of evaluation reports	Complied.
9.	An evidence report including all the evidences collected during the course of audit such as site visit reports, photos, drone images in readable format	Complied. Attached as Annexure-CD Submitted for the Same
10.	A sperate Executive Summary of the main audit conclusions and recommendations on each aspect of the audit	Complied
11.	The auditor will submit soft copy of audit report including images, sound, videos etc in readable/Legible form	Complied CD Submitted for the Same

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**Project Details**

The Banahi Sand Ghat at Morhar River Vill. - Banahi Ghat Tehsil- Aamas, District- Gaya. Area- 6.0 Ha lease is allotted to M/S Westlink Trading Pvt.Ltd. and EC has been Granted on 21.04.2016 By SEIAA Bihar. Later EC has been transferred to BSMCL By Letter No. 152 dated 30/09/2021 by SEIAA Bihar. BSMCL appointed M/s Harsh Construction, (Prop-Sarita Kumari, D/o Naresh Pd. Yadav, Vill- Lohani bigha, Po Gonawan, Ps- Nawada, Dist- Nawada) as a contractor for execution of work and comply all the conditions mentioned in EC letter and CTO. Hence M/s Harsh Construction (contractor) is fully responsible for complying all these conditions mention in EC letter and CTO.

**Geographical location**

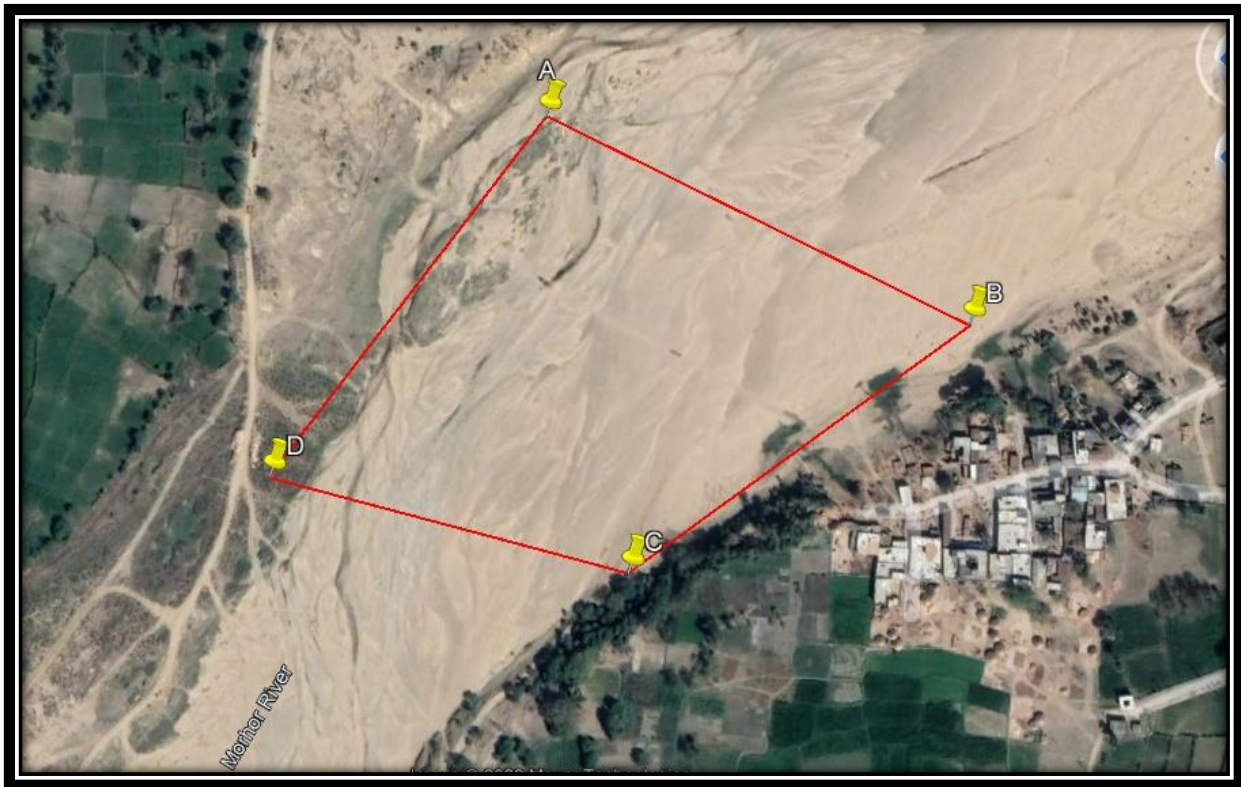
Pillars	Latitude(N)	Longitude(E)
A	24°33'24.75"N	84°45'27.55"E
B	24°33'21.30"N	84°45'35.20"E
C	24°33'18.80"N	84°45'22.60"E
D	24°33'17.24"N	84°45'29.02"E

Nearest Railway Station	Guraru Railway Station approx 28.3km towards North direction
Nearest Airport	Gaya International Airport approx 28.40 km towards North-East direction
Nearest Highway	SH 69- 0.31 km towards North-West Direction NH 19- 2.48km towards North-East Direction
Nearest Habitation	Sherpur village approx 0.03km towards South-East direction Banahi Village approx 0.54km towards North-East direction

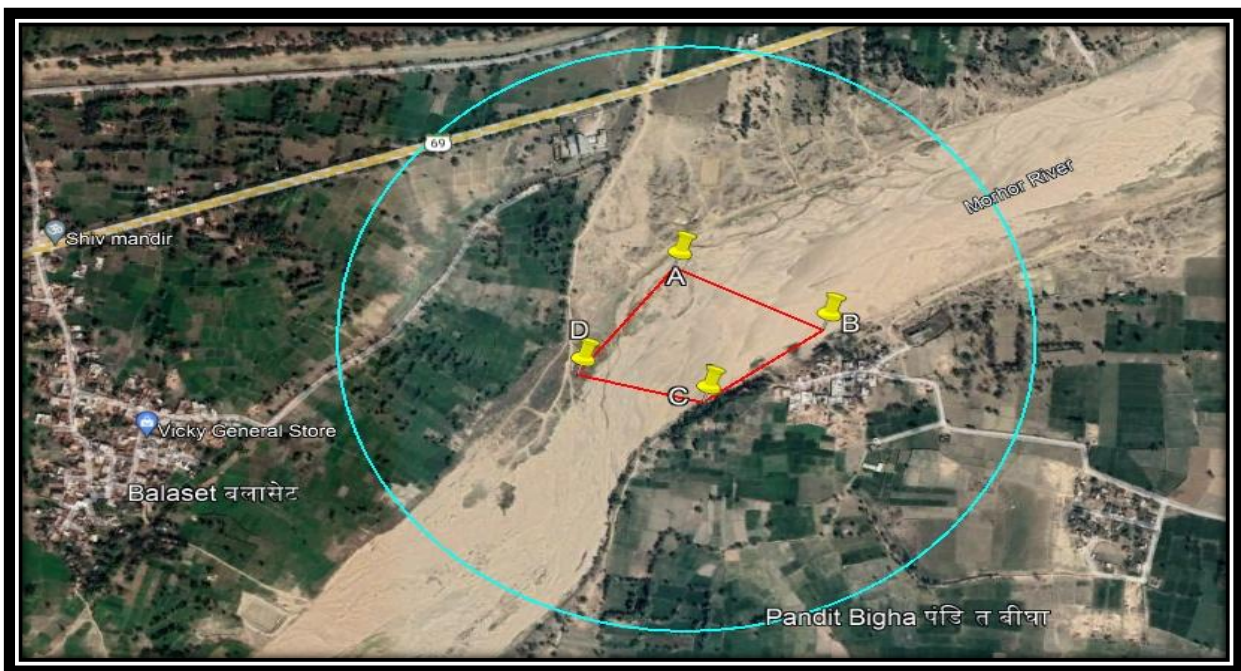


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**Fig-1 Pillar coordinate map**



**Fig 2- 500m map**





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**Audit Checklistas per the Scope of work for The Project**

S. No.	Conditions	Observation	Compliance/ Non- Compliance	Action to be taken	Remarks
<b>Environment Clearance Specific and General conditions audit</b>					
1.	It shall be ensured that there shall be no mining beyond 03 m or up to water Level whichever is less further meaning thereby that no mining activity in ruining stagnant water in the river in the issue of Sand Mining. The Distance from the bank of the river shall be as per the Bihar Minor Mineral and concession Rule (2014) and amendment thereof	<b>Mining</b> depth is limited up to 03 meter only. Safety distance has been left from the both the banks of the river as per BMMCR (2014) & as per MOEFCC guidelines.	Complied	Nil	--
2.	The Project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.	The provision of mines act is being followed strictly.	Complied	Nil	--
3.	The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e., the distance from the	Mining work is being performed as per the approved mine plan. Safety distances from both the river bank as well as from the main channel has been left as no mining zone.	Complied	Nil	--

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	bank or river to be left un-worked (Non mining area)				
4.	The project proponent shall. undertake adequate safeguard measures during, extraction of river bed material and ensure that due to this activity the hydro- geological regime of the surrounding shall not be affected.	Condition is being complied.	Complied	Nil	--
5.	The project proponent will provide protective respiratory devices to workers working industry area and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Protective respiratory devices such as nasal masks are being provided among working peoples. Other protective measures like hand gloves and boots are being provided to the workers. Safety trainings is being organized regularly. Periodic health check-up will be carried out and record of the same will be maintained as per conditions.	Complied	Nil	--
6.	Solid waste material viz, plastic bags. glasses etc. to be generated during, project activity will be separately stored in bins and managed as per Solid Waste Management rules.	No other solid waste are being generated at the site. Little amount of solid waste like packets, pouches and food residues are being generated. Separate bins	Complied	Nil	--

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		have been provided near the mining site to collect above mentioned wastes.			
7.	Natural /customary paths used by villagers should not be obstructed at any time by the activities proposed under the project.	Condition is being followed strictly.	Complied	Nil	--
8.	PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.	No RF & PF is present nearby the site	Complied	Nil	--
9.	The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Bihar Central Ground Water Board.	Condition is being followed	Complied	Nil	--
10.	Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.	Regular water sprinkling is being done to control fugitive emissions.	Complied	Nil	--
11.	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be	Condition is not being followed	Not complied	It was suggested by the audit team to conduct the periodical medical	

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	carried out and records maintained.			examination of the workers and keep it in record.	
12.	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna as prescribed the Wildlife (protection) Act. 1972.	No any endangered fauna has been recorded in the nearby site. If found precautionary measures will be taken care as per wildlife (protection) act 1972.	NA	NA	--
13.	The project proponent shall obtain Consent to establish and Consent to Operate from the Bihar State Pollution Control Board, Patna and effectively implement all the conditions stipulated therein.	Condition has been complied	Complied	Nil	--
14.	No river sand mining be allowed in rainy season (July, August, and September).	Condition is being complied	Complied	Nil	--
15.	To submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity /Production levels shall be decreased /stopped accordingly till the replenishment is completed.	Condition is being complied	Complied	Nil	--

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16.	In river flood plain mining, a buffer of 3 meter be left from the river bank for mining.	Buffer of more than 3 meters have been left from the river banks.	Complied	Nil	--
17.	In mining from agricultural field, a buffer of 3 meter be left from the adjacent field.	Condition is being complied	Complied	Nil	--
18.	Mining shall be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.	Condition is being complied	Complied	Nil	--
19.	No stream should be diverted for the purpose of sand mining. No natural Water courses And/ or water resources are obstructed due to mining operations.	Condition is being complied	Complied	Nil	--
20.	No labour camp be allowed in riverbed.	Condition is being complied	Complied	Nil	--
21.	Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the SEIAA, Bihar.	Condition has been complied, photographs are attached as Annexure.	Complied	Nil	--
22.	Lease shall keep a correct account of quantity of mineral mined out, dispatched from the mine. mode of transport,	Condition is being complied	Complied	Nil	--

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	registration number of vehicle, person in Cargo of\ vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.				
23.	Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible Unit.	Condition is being complied	Complied	Nil	--
24.	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly.	Regular water sprinkling is being done on the transportation route and mined material is being covered during transportation to control dust emission. Site	Complied	Nil	--
25.	Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.	Condition is being complied	Complied	Nil	--
26.	The mineral transportation shall be carried out through covered trucks only and the Vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and	Condition is being complied, photographs regarding this is attached as Annexures.	Complied	Nil	--

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	used,				
27.	Restoration of Flora affected by mining should be done immediately. Twice the number of trees destroyed by mining be planted preferably of indigenous species.	No any trees has been destroyed due to mining activity. No any flora are also affected due to mining because the mining activity is being done on dry part of river bed.	Complied	Nil	--
28.	No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made there under.	Mining lease is not falling in forest area as per forest conservation act 1980 and rules made under this.	Complied	Nil	--
29.	Attempt should be there to restrict activities to cause minimum surface soil disturbance.	No surface soil will be affected because the mining area is river bed and proper safety distances has been maintained from the surface soil area.	Complied	Nil	--
30.	Adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures should be ensured.	Safety distances has been maintained from the both the river banks to avoid soil erosion.	Complied	Nil	--
31.	Site clearance and tidiness shall be maintained.	Condition is being complied.	Complied	Nil	--
32.	The proponent shall take all possible precautions for the protection of	Condition is being complied.	Complied	Nil	--



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	environment and control of pollution				
33.	Junction at take-off point of approach road with main road be property developed with proper width and geometry required for safe movement of traffic by lease holder at his own cost.	Condition is being followed.	Complied	Nil	--
34.	Health and safety of workers should be taken care of.	Condition is being complied.	Complied	Nil	--
35.	Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in SLX months and necessary remedial/preventive measure taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers shall be adopted.	Condition is not being complied	Non complied	It was suggested to the proponent to appoint occupational Health Specialist as soon as possible	--
36.	The Distance from N.H. Railway Line,		Complied	Nil	--

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	Reservoir, Bridge shall be adopted as per Bihar Minor Mineral and concession Rule (2014) and amendment thereof.	Condition is being complied.			
37.	The proponent shall not conduct sand mining where mining, can cause danger to site of Flood protection works, places of cultural religious, historical, and archeological importance.	Condition is being complied.	Complied	Nil	--
38.	Vehicles only with fitness and PUC Certificates should be used.	Condition is being complied.	Complied	Nil	--
39.	Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral will be as per IRC Guidelines with respect to complying with traffic congestion density.	Condition is not being complied properly	Non complied	It was suggested to proponent to work on this condition strictly	--
40.	No stacking of sand is allowed on road side along national highways	Condition is being complied.	Complied	Nil	--
41.	The PP shall make arrangement for drinking Water, first aid facility.	Condition is being complied.	Complied	Nil	--
42.	Adequate steps should be taken to check soil erosion and control debris flow etc. by constructing engineering structures.	Condition is being complied.	Complied	Nil	--
43.	Proponent will		Complied	Nil	--

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	provide adequate sanitary facility in the form of <i>mobile</i> toilets to the labours engaged for <i>the</i> project work.	Condition is being complied.			
44.	Use of <i>effective</i> sprinkler system to Suppress fugitive dust on haul roads and other transport roads shall be ensured; and washing of all transport vehicles should be clone inside the mining lease.	Condition is being complied.	Complied	Nil	--
45.	The Proposed route for transportation should not pass-through private land. But in case is passes permission from private land owner obtained.	Condition is being complied.	Complied	Nil	--
<b>Consent To Establish conditions audit</b>					
1.	The proponent shall obtain 'Consent-to-Operate' under sections 21 of the Air Act, 1981 prior to commissioning of the plant from Bihar State Pollution Control Board.	Condition has been complied.	Complied	Nil	--
2.	The unit shall install D.G. Set(s) with integral acoustic enclosure as per the norms of the Board, so that, it shall conform Ambient Noise Level as prescribed by the Board. Accordingly submit ANL report to the Board just	No DG set has been installed within the lease area	NA	NA	--

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	after commissioning of the plant.				
3.	Maximum depth of sand quarrying in the river bed shall not exceed 3 meters measured from the un-mined bed level at any point of time or the water table whichever is less.	Condition is being complied.	Complied	Nil	--
4.	Mining shall not be undertaken in a mining lease area located within 300 meters on both sides of any railway bridge, or any bridge falling under in any National Highways or State Highways and shall be prohibited within 100 meters of both sides of any other bridge(s).	Condition is being complied.	Complied	Nil	--
5.	No sand quarrying shall be permitted within 50 meters from any public places, i.e., cremation ghat, or any religious place etc.	Condition is being complied.	Complied	Nil	--
6.	No quarrying shall be permitted within 5 meters from both banks of the river.	Condition is being complied.	Complied	Nil	--
7.	Quarrying of sand shall be prohibited within 100 meters up-stream and down-stream from any dam/weir or any such similar structures.	Condition is being complied.	Complied	Nil	--
8.	No quarrying shall be permitted within		Complied	Nil	--

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	46 meters distance from flood control embankments. The quarrying shall be restricted up to a depth of 1.8 meters within 46 meters to 61 meters distance from the said embankment and shall further restricted up to a depth of 2.4 meters within 61 meters to 91 meters distance from the above said embankment.	Condition is being complied.			
9.	Extraction of sand shall be permitted only after obtaining No-Objection Certificate from the Water Resources department in case of the rivers where from Irrigation channels are out flowing. Washing of vehicles shall be done only inside the mining area.	Condition is being complied.	Complied	Nil	--
10.	Mining shall be carried out between 6:00AM to 7:00PM.	Condition is being complied.	Complied	Nil	--
11.	Mining shall not be carried out during rainy season (i.e., June to September).	Condition is being complied.	Complied	Nil	--
12.	Carrying of minerals shall be done in completely covered vehicles both underneath and over the heap.	Condition is being complied.	Complied	Nil	--
13.	Water spraying mechanism to control dust pollution have to be	Condition is being	Complied	Nil	--

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	purchased and (a) proof of purchase & (b) Photographs have to be attached.	complied.			
14.	Carrying of minerals shall be done through a fixed route and the same shall be attached with the application.	Condition is being complied.	Complied	Nil	--
15.	Proof of plantation at least 500 trees of a least 4 feet height on river-side / road-side with proper protection shall be submitted along with the application for CTO	Condition has been complied by previous client, care of plantation is being done by present proponent	NA	NA	--
16.	Details of JCB/Poclaim excavator fitted with GPS instrument shall be submitted along with its registration number [(a) Proof of Purchase & (b) Photographs have to be attached.]	Condition is not being complied	Non complied	It was suggested to proponent to comply this condition	--
17.	Details of water tank with sprayer shall be provided with GPS along with its registration number. [(a) Proof of Purchase & (b) Photographs have to be submitted.]	Condition is not being complied	Non complied	It was suggested to proponent to comply this condition	--
18.	Proof of purchase of Earmuff/protective gear 50 in numbers has to be submitted with its [(a) [(a) Proof of Purchase & (b)].	Earmuff/protective gear have been purchased.	Complied	Nil	--
19.	Proof of Android-based phone/CCTV	Condition is not being complied	Non complied	It was suggested to	--

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	(Closed Circuit Television) / PC (personal Computer) / internet connection /power backup/ barcode/ QR code reader, scanner, check point/post has been procured/installed like [(a) Proof of Purchase & (b) Photographs.			proponent to comply this condition	
20.	The unit shall have a display board near the site stating name of unit/Industry with /Name of proprietor with address and ref memo no and date of consent with its validity period granted by the Board.	Condition has been complied, photographs is attached as annexure.	Complied	Nil	--

### **Drone Survey Report:**

As per the scope of work we have carried out Drone surveillance of entire sand ghat and it has been found that

- Pillar demarcation has been found proper.
- Pollution controlling activity such as dust suppression and plantation is being carried out.
- No mining is being done in river active channel.
- Safety distance has been left from the bank of the river.
- Mining is being done under allowable depth.
- Transportation of excavated material is being done in covered trucks/tractors.
- Transportation of sand is being done with all the safety procedures.
- No illegal sand mining has been found throughout the sand ghat.



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**CONCLUSION**

This audit involved extensive consultation with all the persons working with or directly or indirectly associated with the mining activity, interactions with key personnel on wide range of issues related to Environmental aspects. The audit has identified several environmental friendly observations. The recommendations are also mentioned with some observations such as training conduction, occupational health officer appointment, repairing of haul roads activities. The audit team certify that the overall site is maintained well from environmental perspective. The proponent has assured to follow the compliance suggested by the audit team.

**(Drone Surveillance Photographs)**

**Banahi Sand Ghat, Dist-Gaya**

Created on February15, 2022

Captured on February 11, 2022



**Site Photos**



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**Display Board**



**Transportation with covered vehicles**



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**Water sprinkling facilities For Dust Suppression**



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**Boundary Pillar**





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**Haul Road**



**Solid waste managment**



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**Green Belt**





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**PUC Certificate**


[See rules 115 (2)]

**Pollution Under Control Certificate**  
Authorised By :  
Government of Bihar

Date : 25/02/2022  
Time : 15:52:52 PM  
Validity upto : 24/08/2022

Certificate SL. No. : BR00201000000185  
Registration No. : BR25GA2767  
Date of Registration : 27/Nov/2020  
Month & Year of Manufacturing : September-2020  
Valid Mobile Number : \*\*\*\*\*2542  
Emission Norms : Bharat (Trem) Stage III A  
Fuel : DIESEL  
PUC Code : BR0020100  
GSTIN :  
Fees : Rs.120.00(GST as applicable)  
MIL observation : No

Vehicle Photo with Registration plate  
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	1.28

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC operator  
60mm x 20 mm

LNo.-30/2020