

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

ENVIRONMENTAL AUDIT REPORT OF JANPARA I SAND GHAT

FOR

BIHAR STATE MINING CORPORATION LTD.

(GOVT. OF BIHAR UNDERTAKING)

(DATE OF AUDIT – 09.02.2022)

PREPARED BY



P M S

PRESERVING TOMORROW

P & M SOLUTION

C-88, SECTOR-65 NOIDA

(Accredited by QCI- NABET)

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Audit Report	Report No. -05 JANPARA I SAND GHAT P.S-Ranitalab, Anchal- Vikram, District- Patna. Area- 24.8 HA.
Environmental Auditor	P & M Solution
Client	Bihar State Mining Corporation Ltd. (Govt. of Bihar Undertaking) Address – Room No. 164, Vikas Bhawan (New Secretariat), bailey Rd. Patna - 800015
Report Compiled By	P & M Solution 1 st Floor, C-88, Sector, 65, Noida - 201301
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ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

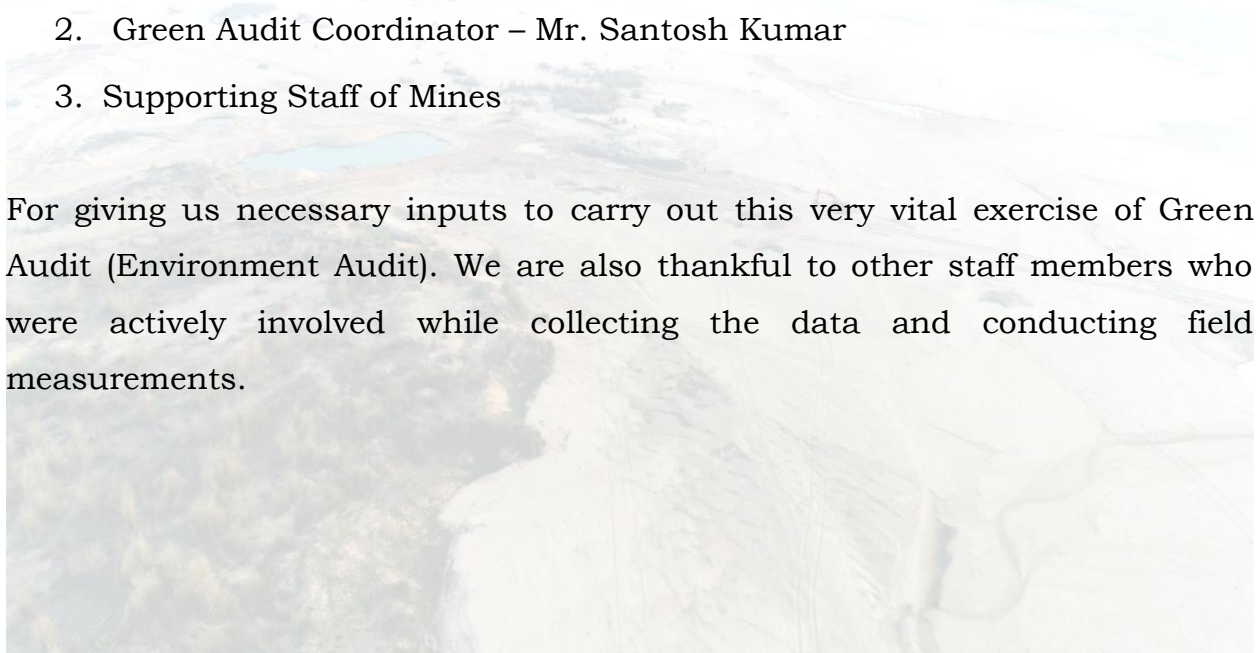
1.0 ACKNOWLEDGEMENT

P & M solution Green Audit Team thanks the management of Bihar State Mining corporation ltd for assigning this important work of Green Audit (Environmental Audit) of **Janpara I sand ghat**. We appreciate the co-operation to our team for completion of study.

Our special thanks are due to:

1. Contractor— M/S Pareo Constructions LLP, Prop-Sudama Kumar
2. Green Audit Coordinator – Mr. Santosh Kumar
3. Supporting Staff of Mines

For giving us necessary inputs to carry out this very vital exercise of Green Audit (Environment Audit). We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.



ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

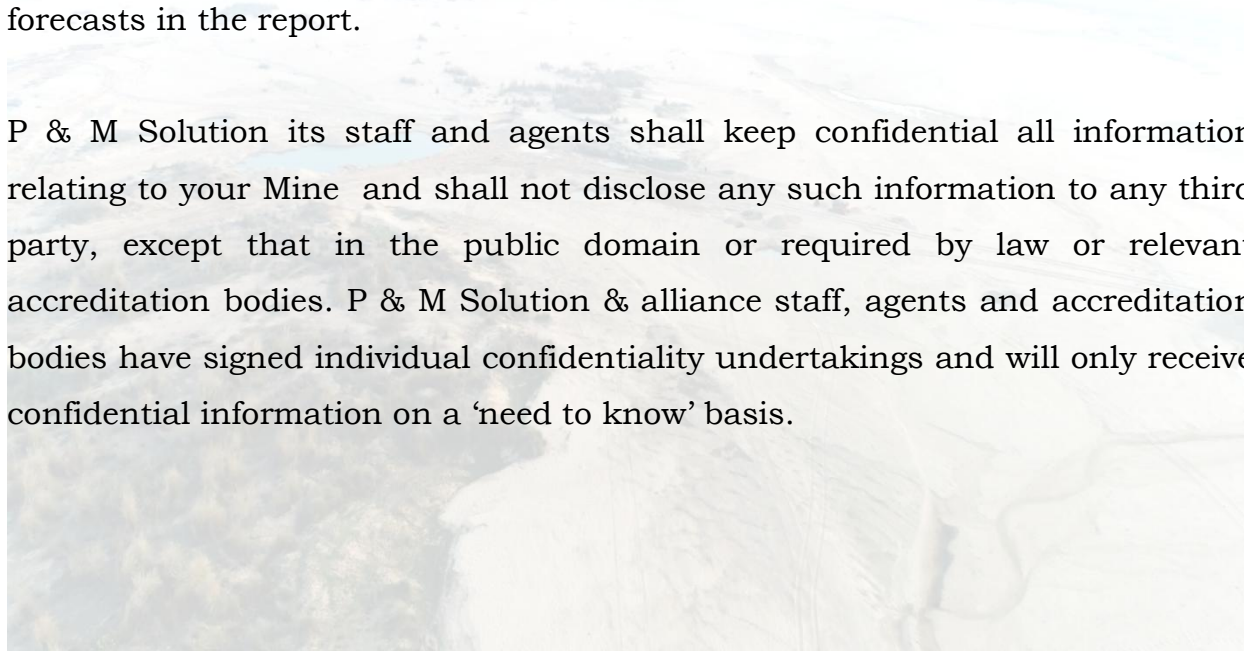
Area- 24.8 HA

2.0 DISCLAIMER

P & M Solution Audit Team has prepared this report for **Janpara I sand ghat** based on input data submitted by the representatives of the mine with the best judgment capacity of the expert team.

It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

P & M Solution its staff and agents shall keep confidential all information relating to your Mine and shall not disclose any such information to any third party, except that in the public domain or required by law or relevant accreditation bodies. P & M Solution & alliance staff, agents and accreditation bodies have signed individual confidentiality undertakings and will only receive confidential information on a 'need to know' basis.



ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

DECLARATION OF THE AUDITOR:

- We P & M Solution worked as the independent environmental practitioner in this Audit.
- We further declare that: - We act as the independent environmental consultant.
- We declare that there are no circumstances that may compromise my objectivity in performing such work.
- We have expertise in conducting environmental audits, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity.
- We will comply with the Act, Regulations and all other applicable legislation, policies and guidelines.
- Based on information provided to us by the project proponent, and in addition to information obtained during the course of this audit, will present the results and conclusion within the associated document to the best of my professional judgment.

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

GOALS OF ENVIRONMENT AUDIT

Following were the goals:

1. A baseline survey to know the real status of green practices.
2. Identification of the problems faced while practicing green practices in the Mine
3. Examination of the current practices that have impact on the environment such as resource utilization, waste management, energy conservation etc.
4. Analysis and suggestion for the plausible solutions for problems identified from Audit Report.
5. Increasing and spreading the awareness for environmental consciousness and sustainable use of resources amongst the students, teaching and non-teaching staff members.
5. Identification and assessment of any environmental risk if any inside the college campus.
6. Giving direction and guidance working on local environmental issues.

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

INTRODUCTION

The rapid environmental degradation at local, regional and global level is leading us to global “Environmental poverty”. Stabilization of human population, adoption of environmentally sound and sustainable technologies, reforestation and ecological restoration are crucial elements in creating an equitable and sustainable future for all humans in harmony with nature and natural resources.

The audit was conducted by a team of **P & M Solution**. The current environmental audit represents the first stage in our efforts to build environmental sustainability on the sand mining activity.

Environmental audit or Green audit is a general term that reflects various kinds of evaluations intended to identify environmental compliance and management system, implementation gaps, along with related corrective actions. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the ecofriendly ambience. Green audit is a useful tool to determine how and where the most energy or water resources are being used; and can then considerations be given on how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. It can create health consciousness and promote environmental awareness, values and ethics.

Sand has become a very important mineral for the expansion of society. Sand is a naturally occurring granular material composed of finely divided rock and mineral particles. River sand is one of the world’s most plentiful resources and has the ability to replenish itself. river sand is vital for human well-being and for sustenance of rivers.

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

Sand mining in India is adversely affecting the rivers, sea, forests & environment. Illegal mining of sand and the lack of governance, in a big way is causing land degradation and threatened its rivers with extinction. Mining of sand for instance is depleting the waters of the rivers.

Overview of environmental aspects of mining Environmental impact of mining commences with exploration, extends through extraction and processing of minerals, and may continue to post closure of the operation with the nature and extent of impacts varying throughout the stages of project implementation. This guide is provides an introduction to environmental issues associated with mining activities, the relevant context where a P & M Solution, might be evolved in auditing mining projects and extent to which environmental issues should be addressed by the private or public sector.

AUDIT OBJECTIVES

To ensure that:

1. Establishing a baseline of existing environmental conditions with focus on natural and physical environment.
2. Sustainable use of natural resource from the rivers.
3. Understanding the current practices of sustainability with regard to the the mining activity, generation of wastes, transportation, etc;
4. Mining companies maintain adequate control system to minimize environment damage impacts.
5. Awareness generation among sand ghat owners and working personells to concerning real issues of environment and its sustainability.
6. Promotion of environmental awareness through participatory auditing process

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

PROPONENT DETAILS

The above lease is allotted to M/S Broad-Son Commodities Pvt. Ltd. and EC has been Granted on 16.02.2018 By SEIAA Bihar. Later EC has been transferred to BSMCL By Letter No. 253 dated 22/12/2021 by SEIAA BIHAR. BSMCL appointed M/S Pareo Constructions LLP, Prop-Sudama Kumar, (Pareo, Bihta, Patna, 802160) as a contractor for execution of work and comply all the conditions mentioned in EC letter and CTO. Hence M/S Pareo Constructions LLP, Prop-Sudama Kumar (contractor) is fully responsible for complying all these conditions mention in EC letter and CTO.

M/s P & M Solution has been appointed as Auditor for the project Janpara I Sand Ghat by Bihar State Mining Corporation Limited.

Firm has conducted comprehensive environmental audit of above mentioned sand Ghat. Audit report is as following

1. Ensure prevention of illegal sand mining with the use of drone any other latest technology

Deliberation:- Drone surveillance of entire sand Ghat has been carried out 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.
- Pillar demarcation has been found proper.

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

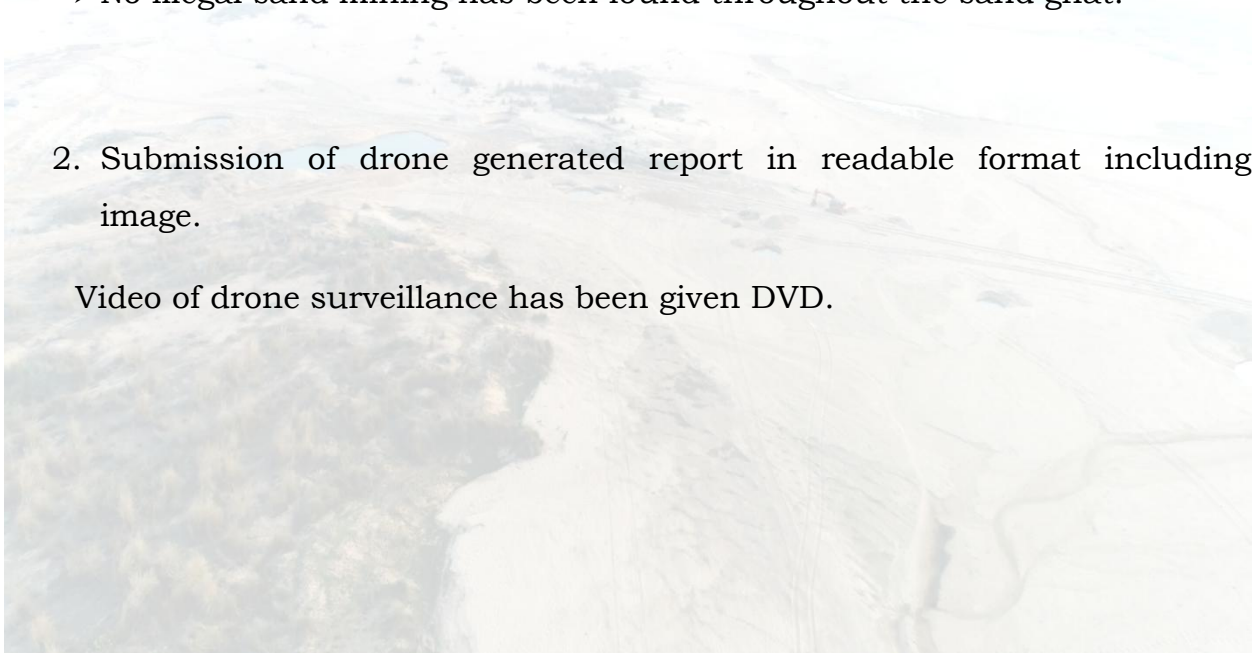
P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

- 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.

2. Submission of drone generated report in readable format including image.

Video of drone surveillance has been given DVD.



ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

1. Evaluation compliances being done by the contractors with statutory obligations pertaining to environmental laws/CTE/CTO and Environmental Clearance

Reply:- A checklist has been prepared and same has been sent to client. we will submit this report after ground verification. Checklist is as follows

S. No.	Conditions	Observation	Compliance/ Non-Compliance	Action to be taken	Remarks
ENVIRONMENT CLEARANCE SPECIFIC AND GENERAL CONDITIONS AUDIT					
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	Mining depth found at mining site is above ground water table. There is no in stream mining observed at site. Clear demarcation of safety distance has been	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	shall be as per the Bihar Minor Mineral and concession Rule (2014) and amendment thereof	observed on site.			
2.	The Project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.	There is no discrepancy found in this condition. This is being followed.	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 bank or river to be	Conformity in mining has been found on site. Safety zone found on the site.	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	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.	There is no ground water intersection. There is no disturbance of hydro geological regime.	Complied	Nil	--
5.	The project proponent will provide protective respiratory devices to workers working in industry area and they shall also be provided with adequate training and information on safety and health aspects. Periodical	Protective respiratory devices such as nasal masks are being provided among working peoples. Other protective	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	<p>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.</p>	<p>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.</p>			
6.	<p>Solid waste material viz, plastic bags, glasses etc. to be generated during, project activity will be separately stored in</p>	<p>No other solid waste are being generated at the site. Little amount of</p>	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	bins and managed as per Solid Waste Management rules.	solid waste like packets, pouches and food residues are being generated. Separate bins 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 I Protected Forests as stipulated in	Safe distance has been maintained.	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	applicable guidelines.				
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.	Water conservation measures is yet to be taken. Contractor is advised to take water conservation measures.	Not Complied.	Contractor is advised to take water conservation measures.	--
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	No details of	Not	Contractor	

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.	pre-placement medical has been found.	complied	r is advised to do medical examination of workers at the earliest.	
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.	There is no schedule-1 or endangered species are found near site.	NA	NA	--
13.	The project proponent shall obtain Consent to establish and Consent to Operate from the Bihar State	Condition has been complied	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	Pollution Control Board, Patna and effectively implement all the conditions stipulated therein.				
14.	The depth of mining in river bed shall not exceed three meter or water level, whichever is less, provided that where the joint inspection committee certify about excessive deposit or over accumulation of mineral in certain reaches requiring channelization, it can be as specified by the committee on define reaches of river.	This being complied. There is no ground water intersection found in mining site.	Complied	Nil	
15.	No river sand mining be allowed in rainy season (July, August, and September).	Condition is being complied	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

16.	In river flood plain mining, a buffer of 3 meter be left from the river bank for mining.	Buffer of more than 3 meter was found during audit.	Complied	Nil	
17.	In mining from agricultural field, a buffer of 3 meter be left from the adjacent field.	Buffer of more than 3 meter was found during audit.	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.	There no pondering found on mining site,	Complied	Contractor is advised to strictly follow this condition.	--
19.	No stream should be diverted for the purpose of sand mining. No natural Water courses And/ or water	There is no stream diversion found on mining site.	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	resources are obstructed due to mining operations.				
20.	No labour camp be allowed in riverbed.	No labor camp found in riverbed during audit.	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 DEIAA, Bihar.	Pucca pillar was seen during audit. However there is no record found of ge coordinate made available to SEIAA, Bihar.	Partly Complied	Contractor is advised to strictly follow this condition.	--
22.	Lease shall keep a correct account of quantity of mineral mined out, dispatched from the mine. mode of transport,	Dispatch register including vehicle number found during	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	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.	the audit.			
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 not being done being done on the transportation route. Covered tractor was	Partly Complied	Contarcto r is advised to follow strictly this condition.	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA


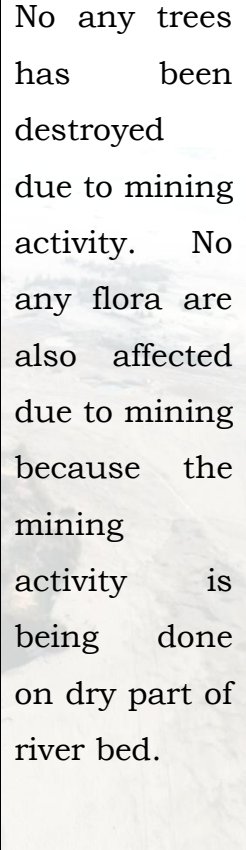



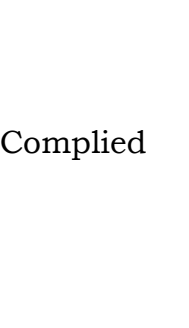
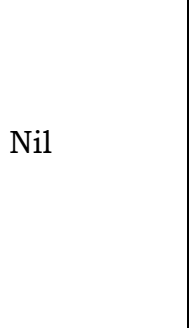

		found during audit.			
25.	Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.	Regular water sprinkling is not being done on the transportation route and mined material is being covered during transportation to control dust emission.	Partly Complied	Contractor is advised to follow strictly this condition.	--
26.	The mineral transportation shall be carried out through covered trucks only and the Vehicles carrying the mineral shall not be overloaded. Wheel	Covered trucks are found during random audit. Photograph for the same has been attached as	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

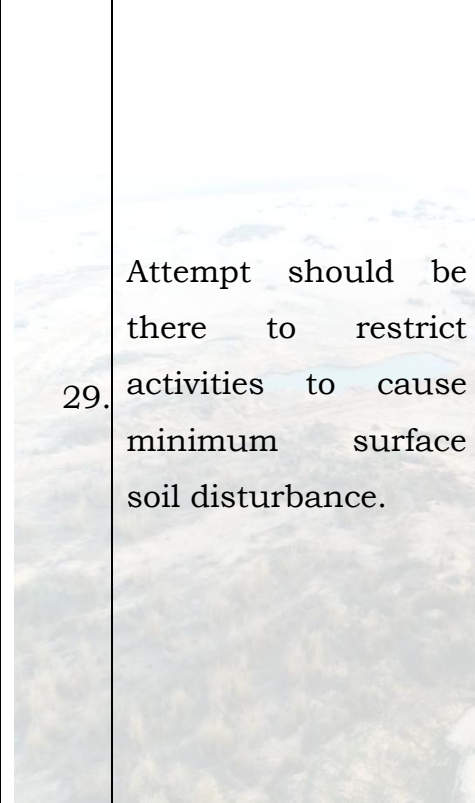
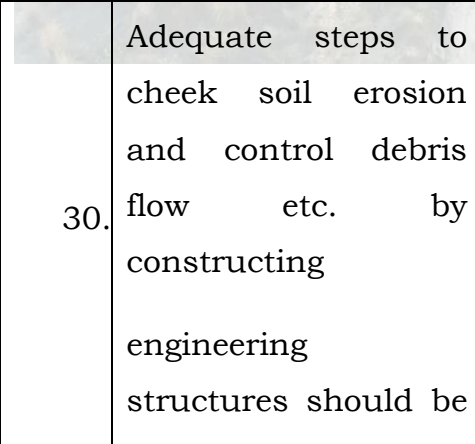
	washing facility should be installed and used,	Annexure.			
27.	 Restoration of Flora affected by mining should be done immediately. Twice the number of trees destroyed by mining be planted preferably of indigenous species.	 No any trees has been destroyed due to mining activity. No any flora are also 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	Mining lease is not falling in forest area as per forest conservation act 1980 and	 Complied	 Nil	 --

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	Forest Conservation Act, 1980 and the rules made there under.	rules made under this.			
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	Safety distances has been maintained from the both the river banks to avoid soil	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	ensured.	erosion.			
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 environment and control of pollution	Condition is being complied.	Complied	Nil	--
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	There is no record found	Non	It was suggested	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	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.	related to occupational health specialist.	complied	to the proponent to appoint occupational Health Specialist as soon as possible	
	Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers shall be adopted.				

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

36.	The Distance from N.H. Railway Line, Reservoir, Bridge shall be adopted as per Bihar Minor Mineral and concession Rule (2014) and amendment thereof.	Condition is being complied.	Complied	Nil	--
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	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

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	Condition is being	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	structures.	complied.			
43.	Proponent will 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.	Complied	Nil	--
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. Condition is being complied.	Complied	Nil	--
45.	The Proposed route for transportation should not pass-through private land. But in case is passes	Condition is being complied.	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	permission from private land owner obtained.				
CONSENT TO ESTABLISH CONDITIONS AUDIT					
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 after commissioning of the	No DG set has been installed within the lease area	NA	NA	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	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).	Complied Condition is being complied.	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

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	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

8.	No quarrying shall be permitted within 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.	Complied	Nil	--
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		Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	Irrigation channels are out flowing.	Condition is being complied.			
10	Washing of vehicles shall be done only inside the mining area.	Condition is being complied.	Complied	Nil	
11	Mining shall be carried out between 6:00AM to 7:00PM.	Condition is being complied.	Complied	Nil	--
12	Mining shall not be carried out during rainy season (i.e., June to September).	Condition is being complied.	Complied	Nil	--
SPECIFIC CONDITION					
1.	The unit shall submit the list of GPS fitted vehicles and shall use Pollution under control certify	There is no record found regarding list of GPS fitted	Not Complied.	Contractor are advised to follow this conditions	

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	vehicles only. .	vehicles.		strictly.	
2	Carrying of minerals shall be done in completely covered vehicles both underneath and over the heap.	Condition is being complied.	Complied	Nil	--
3.	Water spraying mechanism to control dust pollution have to be purchased and (a) proof of purchase & (b) Photographs have to be attached.	Condition is not being complied.	Not complied	Contractor are suggested to strictly follow this condition.	--
4	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	
5.	Proof of plantation at least 500 trees of a least 4 feet height on		NA	NA	

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	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			
6	High volume sampler would be purchased and install at every site conneted with online system, A proof of Purchase B. Photographs have to be attached.	Monitoring records found but there is no online monitoring system	Not Compiled.	Contracto r are advised to install online monitorin g system .	
7	Details of JCB/Poclain excavator fitted with GPS instrument shall be submitted along with its registration	Condition is not being complied	Non complied	It was suggested to proponent to comply this	

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	number [(a) Proof of Purchase & (b) Photographs have to be attached.]			condition	
8	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	
9	Proof of purchase of Earmuff/protective gear 50 in numbers has to be submitted with its [(a) [(a) Proof of Purchase & (b)].	Condition is not being complied	Non Complied	It was suggested to proponent to comply this condition	
10	Proof of Android-based phone/CCTV (Closed Circuit Television) / PC (personal Computer) / internet connection	Condition is not being complied	Non complied	It was suggested to proponent to comply this	

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	/power backup/ barcode/ QR code reader, scanner, check point/post has been procured/installed like [(a) Proof of Purchase & (b) Photographs.			condition	
1 1	GPS location of parking space, loading point and route has to be attached.	Condition compiled.	complied		
1 2	The dengis/barge/bouts/ vehicles have to be registered shall be registered competent authority and list of such vessels to be used have to submitted along with it registration detail.	Condition not being complied.	Not Complied.	It was suggested to proponent to comply this condition	
1 3	The unit shall have a display board near	Condition has been	Complied	Nil	--

ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

	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.	complied, photographs is attached as annexure.			
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ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

Annexure I

(Drone Surveillance Photographs)

Janpara I Sand Ghat, Dist - Patna

Created on February 12, 2022

Captured on February 09, 2022

DroneDeploy



ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA



ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

Annexure II

(Display Board)



ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

Annexure III

(Transportation with covered vehicles)



ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

Annexure V (Boundry Pillar)



ENVIRONMENTAL AUDIT REPORT

JANPARA I SAND GHAT AT SON RIVER

P.S-Ranitalab, Anchal- Vikram, District- Patna.

Area- 24.8 HA

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.

