

**PART- B MINUTES OF THE 40<sup>th</sup> MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD FROM 22<sup>nd</sup> and 23<sup>rd</sup> DECEMBER, 2016**

The 40<sup>th</sup> meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 22<sup>nd</sup> and 23<sup>rd</sup> December, 2016 under the Chairmanship of Sh. K.P. Bhawsinka in the Conference Room at SEAC, Ranchi. The following members were present:

1. Shri K.P. Bhawsinka - Chairman
2. Dr. B.K. Tewary - Member
3. Shri R.N. Singh - Member
4. Shri S.P. Shriwatav - Member
5. Dr. R.V Singh - Member
6. Shri U.P. Singh - Member
7. Shri S.K. Sinha, IFS - Member Secretary

**Special Invitee**

1. Shri Ashok Kumar Yadav, JE - Representative of JSPCB (Present on 23.12.16)

Various projects which were received by SEIAA after the previous SEAC meeting held from 06<sup>th</sup> to 07<sup>th</sup> December, 2016 and forwarded to SEAC for their technical appraisal came up for discussions. Also those Projects which were appraised in SEAC's earlier meetings in which PP's were asked to provide additional informations / clarifications were also considered for examination / scrutiny where the Project proponents had submitted replies. Accordingly, the Project proponents were asked to make technical presentation for the appraisal of their project before the committee.

The following salient observations /recommendation were made during the Presentation (Project Wise), which is mentioned below:-

**A. Projects considered for recommendation to SEIAA for consideration of grant of EC.**

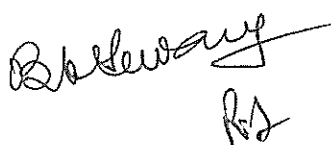
1. **Sirango stone deposit of M/s Eco Tech Coal Industries Pvt Ltd. (Shri Kavach Kumar Nirmal) at Village- Sirango, Block- Kanke, Dist.- Ranchi, Jharkhand (16.39 Ha).**

**Consultant- M/S Cognizanace Research India Pvt Ltd, Noida, RQP- Sri D.P. Choudhary**

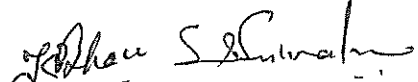
This is a Stone Mining Project for having an area of 16.39 Ha [Khata No.- 83, Plot No.- 1469 (P)]. The committee noted that as per Form I it is a proposal for new lease for which PP is seeking EC. Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006 and S.O. 141 (E), dated- 15.01.2016 and decision taken by SEIAA in its 31<sup>st</sup> meeting held on 27.05.2015) are recommended by the Committee in the instant case.

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the



  
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mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 20.00 Lakhs and a provision of Rs 6.00 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 2,04,83,374 t

Year-wise Production as per Approved Mining Plan Report for five years is as follows

1 <sup>st</sup> Year	:	16,28,386 t
2 <sup>nd</sup> Year	:	16,27,719 t
3 <sup>rd</sup> Year	:	16,25,125 t
4 <sup>th</sup> Year	:	16,48,401 t
5 <sup>th</sup> Year	:	16,21,166 t

The daily production as per Form I is *5495 tonnes*.

PP has submitted certificates from Circle Officer (Letter No.- 919, dated- 09/10/2015), DFO (Letter No.- 3902, dated- 10/12/2015) & DMO (Letter No.- 1906, dated- 31/10/2015). The information was submitted by DMO, Ranchi wherein he has informed that within a distance of 500 m three more projects for stone mining having area of 40.00 Acre, 12.62 Acre and 41.50 Acre are in the pipeline. Apart from the present application having area of 40.50 acre, the total area of all the four projects is 134.62 Acre (54.50 Ha).

Since the letter of DMO (Letter no.- 1906, dated- 31.10.2015) does not mention about the present status of the other three proposed mining leases, hence a clarification was asked from him, whether the case of applicant and other three proposed lessee, form a cluster or not and whether the case of the applicant can be considered as single case or cluster case.

The PP has submitted certificate from DMO, Ranchi (Letter No.- 1724, dated- 24/12/2016) wherein it has been reported that there is no mining lease within a distance of 500 m. The informations was examined and found to be satisfactory.

**Based on the presentation made and information provided the Committee decided that the proposal for Sirango stone deposit of M/s Eco Tech Coal Industries Pvt Ltd. (Shri Kavach Kumar Nirmal) at Village- Sirango, Block- Kanke, Dist.- Ranchi, Jharkhand (16.39 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given in Annexure - I.**

**2. Heben Sand Mining Project on Sanka River of Sri Binay Kumar Agarwal at Mouza- Heben, Thana-Simagunda, Dist.- Saraikela-Kharsawan, Jharkhand (6.24 Ha).**

**Consultant- M/S Green Cindia Consulting Pvt Ltd, Ghaziabad, RQP- Sri P.K. Sen**

This is a Sand Mining Project for having an area of 6.24 Ha [Khata No.- 368, Plot No.- 11]. The committee noted that as per Form I it is a proposal for grant of mine lease after auction vide DMO's

allotment letter no.- 3116, dated- 29.10.2015 for which PP is seeking EC. Considering the fact that it is B2 Category Project - as per EIA Notification dated 14.09.2006 and S.O. 141 (E), dated- 15.01.2016 of MoEF & CC environmental impact assessment as well as Public Consultation is not required. In view of MoEF & CC S.O. No.- 141 (E), dated- 15.01.2016 the committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions are recommended by the Committee in the instant case.

The project was reviewed in light of OM No.- J-13012/12/2013-IA-II(I), dated- 24<sup>th</sup> December, 2013 by MoEF and SEIAA guidelines dated 07.05.2013 with respect to proposed Mining Scheme, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining road from lease area to main road, water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 85.00 Lakhs and a provision of Rs 2.49 Lakh has been indicated for Environment management.

The proposed estimated Geological reserve is 2,47,341 tonne and annual production capacity as per Form I has been indicated as 97,745 tonne per annum.

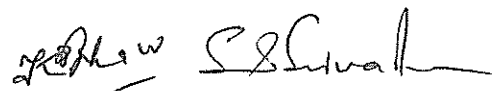
PP has submitted certificates from CO (Letter No.- 1195, dated- 26/11/2015), DFO (Letter No.- 3439, dated- 17/12/2016) and DMO (Letter No.- 3272, dated- 30/11/2015). PP has submitted Affidavit that there is no intake well, breeding point and bridge within 500 m of mine lease. The informations was examined and found to be satisfactory.

**Based on the presentation made and information provided the Committee decided that the proposal for Heben Sand Mining Project on Sanka River of Sri Binay Kumar Agarwal at Mouza- Heben, Thana-Simagunda, Dist.- Saraikela-Kharsawan, Jharkhand (6.24 Ha) be recommended for consideration of SEIAA subject to above mentioned observation for grant of EC. The various conditions for grant of EC are given in Annexure - II.**

**3. Modernization cum Expansion of Straight Bar & Wire Mill of M/S Usha Martin Limited, Adityapur Industrial Area, Plot No.- 42 & 38, Village- Gamgaria, P.o- Jamshedpur, Dist- Saraikela Kharsawan, Jharkhand.**

**Consultant- M/S Pollution & Ecology Control Services**

The Company is an integrated manufacturer of steel billets, wire rods, straight bars, blooms, wires and wire ropes. The bar product segments in which the Company operates includes steel products for a number of critical applications of various automobile components for various automobile OEM. The Company also provides anchoring solutions along with supply of wire ropes for applications in offshore oilfields. The Company has a total of six plants at different manufacturing locations around the globe and has a strong marketing and distribution network in India and abroad.



The present proposal for Straight Bar & Wire Mill division is an extended production unit of Usha Martin Limited (UML) which is a flagship company of Usha Martin Group. UML is the largest manufacturer of wire ropes in India and along its subsidiaries (hereinafter collectively referred to as 'Usha Martin'), having market presence in USA, Europe, Middle East and South East Asian countries.

The JSPCB has issued CTO to this unit vide letter nopc/jsr/air/u-03/02/g-2558 Dated 28th December, 2012 for Hexagonal Iron bar 105 MT/day for plot no.- 42 & 38 in phase IV of Adityapur Industrial Area, Jamshedpur.

<b>DETAILS OF THE PROJECT S. No.</b>	<b>Particulars</b>	<b>Details</b>
1.	Nature of the Project	Expansion-cum-modernization of capacity of existing Bar Mill from 105 MT/day to 425MT/day
2.	Total Cost of the expansion/modernization project	15 Cr
3.	Cost of EMP	a) 3 Cr. – Capital Cost b) 0.5 Cr – Recurring Cost
4.	Total Plot Area	8 Acre
5.	Greenbelt Area	0.250 Acre
6.	Project Location	Adityapur Industrial Area.
A. Village	Bara Gamharia	
B. Tehsil	Gamharia	
C. District	Saraikela- Kharsawan	
D. State	Jharkhand	
7.	Climatological Data of Study Period –	
A. Temperature	Max. – 47 °C	
B. Relative Humidity	87%	
C. Mean Annual Rainfall	Avg. 1100 mm	
8.	Nearest Railway Station	Gamharia (2 km, SE)
9.	Nearest Highway	NH-33 (10 km, N)
10.	Nearest Airport	Jamshedpur (16 km, E)
11.	Protected forest	2.5 km, NE
Wildlife Sanctuary	None within 10 KM radius	
12.	Nearest Densely Populated Area	Jamshedpur (13.0 km, E)
13.	Nearby Water Bodies	3 Subarnarekha River(5.5 km, NE) 4 Kharkai River (5 km, SE) 5 Sanjai Nadi (4.5 km, SW) 6 Sitarampur Reservoir (2.5 km, SSE)

14.	Soil Type	Silty loam
15.	Seismic Zone	Zone II

The project authorities along with their consultant accredited M/S Pollution & Ecology Control Services gave a detailed presentation on the EIA / EMP report.

Based on the presentation made and information provided the Committee decided that the proposal for Modernization cum Expansion of Straight Bar & Wire Mill of M/S Usha Martin Limited, Adityapur Industrial Area Vill- Gamgaria, P.o- Jamshedpur, Dist- Saraikela Kharsawan, Jharkhand be recommended for consideration of SEIAA subject to above mentioned observation for grant of EC. The various conditions for grant of EC are given in Annexure - III.

## **B. Projects for which SEAC has sought clarifications from PP.**

### **1. Luti Murup Fireclay Mine of M/s Ram Avatar Singh Village Luti & Murup, PS Balumath, District Latehar, Jharkhand Area (47.61 Ha).**

PP was also asked to submit additional information:-

1. Certificates from DFO & CO regarding status of land.
2. List of endangered species.
3. Specific scheme for Rain Water Harvesting.
4. Status of violation.
5. High flood level in river and submergence area during high flood.
6. Contour plan including details of Culverts / Bridge and other physical features.
7. Drainage plan considering OB dump and mining plan.
8. Slope of excavation to be mentioned.
9. Since River is Amount of discharge in lean as well as rainy season (Summer Season).
10. Adequacy study of infrastructures like culverts & bridges etc for increased loading due to transportation of loaded trucks.

Regarding point no.-4 to SEIAA is requested to inform about the action taken on recommendation of SEAC in meeting dated- 12 to 15 March 2014, regarding taking credible action against the unit .

Once the PP provides the information, SEAC will examine the case.

### **2. Chainpur Panchayat Sand Mine in Bohta River of Shri Sitaram Prasad Village- Semarbudhini, Ahirpurwa & Bahertatoli, P.S- Mahuadand, Dist- Latehar, Jharkhand (7.36 Ha)**

PP was also asked to submit additional information:-

1. Calculation of Mineable reserve.
2. Calculation of replenishment per year in the river.
3. GPS reading of the Boundary Pillars on the area map.
4. Correct flow direction of the ~~river~~ river.
5. Parameters considered for Geological reserve (Proved) and mineable reserve.
6. Safety zone should be 1/5<sup>th</sup> of the river width or 15 m whichever is higher, (not 8m).
7. Thickness of the sand deposit with vertical section litho log at three locations.
8. Details of transportation route map.

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*S. S. Singh*

9. Breakup of CSR.
10. No Objection Certificate from Gram Sabha.
11. Status about obtaining permission from National Board of Wild Life (NBWL), since the area falls within 04 KM of Mahuadar Wild Life Sanctuary as per DFO report.

**Once the PP provides the information, SEAC will examine the case.**

### **3. Proposed Bulk LPG Storage & Bottling Plant of M/s Bharat Petroleum Corporation Limited at Bokaro Industrial Area, Village- Maraphari & Gorabali, Tehsil- Chas, Dist.- Bokaro, Jharkhand.**

PP was also asked to submit additional information:-

1. Site layout plan with specific location and line plan of the industry located in the radius 200 meter.
2. Alternate site if any & its details.
3. Land use and distance of the features like habitation, water body, road (KML file) from the site.
4. Seasonal monitoring sites selection process.
5. Correct the documents submitted earlier.
6. Road distance –NH- main entry to be mentioned.
7. Fugitive emission details.
8. Liquid residue / effluent and ETP details.
9. Control of excess gas / pressure relief.
10. Hydrant size details.
11. Fire hydrant design basis.
12. Distance of isolation-minimum requirement actual.
13. Details of CSR.
14. Green belt – trees absorbing CO<sub>2</sub> / green house effect.
15. Onsite & Offsite emergency plan.
16. HAZOP/HAZEN.
17. Emergency response
18. Industries in zoom radius
19. Data collection – additional 45 days from today.

**Once the PP provides the information, SEAC will examine the case.**


### **C. The following is the list of PP's not present.**


1. Expansion of coke over plant of M/S Amit coke Industries vill- Gohira, Block- Govindpur Dist- Dhanbad Jharkhand (6.13 Ha)
2. Kedro Quartzite Mine Project of M/s Bharat Mining Company, Vill.-Khar, Dist.-East Singhbhum , Jharkhand.(5.879 ha)
3. Nadbelwa Sand Mining Project on Sukri river of M/s Sri Bali Yadav , New State bank of India, At+P.O.+P.S.- Manika, Latehar (13.05 Ha)
4. Chapandey Stone Mine at vill- Chapandey, thana- Ranga, Dist- sahibganj, state- Jhk (8.38 H.a)


**D. The following is the list of PP's who have requested for deferment to next meeting.**


1. Maharajganj Pyroxenite Mine of M/s Jaganath Cement Works Pvt. Ltd. at vill- Maharajganj, thana- Rajnagar, Dist- Saraikela, Kharsawan, Jhk (13.644 Ha).
2. Bagru Bauxite Mines of Shri Madan Mohan Prasad Singh at Village Bagru, Taluka - Kisko, Dist - Lohardaga Jharkhand (Area 10.117 Ha).


**The meeting concluded with thanks to all present.**


  
(Dr. B.K. Tewary)  
Member


  
(R.N. Singh)  
Member

  
(S.P. Srivastav)  
Member

  
(Dr. R. V. Singh)  
Member

  
(U.P. Singh)  
Member

  
(S.K. Sinha)  
Member Secretary



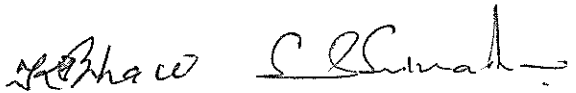
  
(K.P. Bhawsinka)  
Chairman





**A. Specific Conditions**

1. The environmental clearance is subject to grant of mining lease by the Department of Mines, Government of Jharkhand to PP and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance.
3. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / National Green Tribunal / MOEF Guidelines applicable to Minor Minerals.
4. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs / is found in the Project area). No damage is to be done to fauna if found in ML area (as mentioned in various schedules). In case found they should be given protection, collected alive with the help of the expert and transferred them or handing over them to the concerned authorities. Conservation Plan, if applicable has to be adhered to.
5. The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board shall be obtained. Benches height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per SEIAA guidelines. Safety measures shall be adopted in line with DGMS Guidelines.
6. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
7. The project proponent shall ensure that no natural watercourse and / or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating / passing through the mine lease area during the course of mining operation.
8. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
9. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
10. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
11. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.

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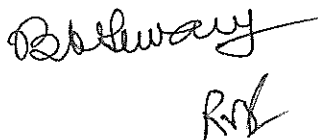
12. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do 50 bamboo gabion plantation each year for the life of the mine along the transport road an vacant space, preferably along the periphery of mining lease. Fast growing and local species will be planted.
13. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
14. 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 Jharkhand / Central Ground Water Board.
15. The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
16. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
17. Vehicular emissions shall be kept under control by regular repairing of transport road and regular air quality monitoring. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.
18. No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
19. Drills shall either be operated with the dust extractors or equipped with water injection system.
20. 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.
21. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
22. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
23. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
24. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
25. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.

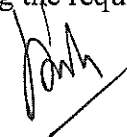
26. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein.
27. The Project Proponent shall submit six monthly report on the expenditure incurred on environmental management plan submitted by them.

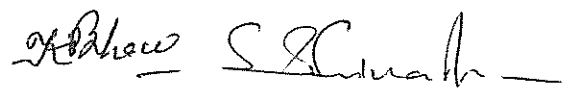
#### **B. General conditions**

1. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
3. The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
4. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
5. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
6. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
7. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
8. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
9. Dispensary facilities for First Aid shall be provided at site.
10. A separate environmental management / monitoring cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
11. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or at least Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.



  
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13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

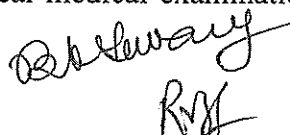
**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

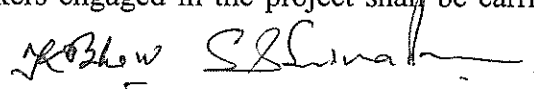
**A. Specific Conditions**

1. The Environmental clearance is subject to grant of Mining Lease and will be co-terminus with the mining lease period.
2. The mining work will be open-cast and exclusively manual. No mechanical work or drilling / blasting should be involved at any stage.
3. The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed. Also PP shall ensure that stipulations mentioned in MoEF OM No.- J-13012/12/2013-IA-II(I), dated- 24<sup>th</sup> December, 2013 and SEIAA, Jharkhand guideline dated 07.05.2013 are adhered to.
4. For the green belt development in the mining area / transport road sides / other land area saplings available in the forest nursery / private nursery should also be considered for the mentioned purpose instead of the Trees / Plants mentioned in the PFR / Presentation copies of the proposed mine.
5. No sand mining activities will be carried out in upstream or downstream within 500 m of railways, road, bridge, water intake, wires & notified aquarium or breeding places.
6. Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc and shall submit report to SEIAA, JSPCB and DMO after every monsoon i.e. by end of November (30<sup>th</sup> ) of that year. Also after receding of flood / water (after monsoon) a study has to be conducted in mining lease area and list of flora & fauna is to be prepared and submit report to SEIAA, JSPCB and DMO.
7. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs / is found in the Project area).
8. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
9. 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 of river to be left un-worked (Non mining area), distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season. Due consideration will be given to points raised in Supreme Court judgement and SEIAA guidelines.
10. 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 area shall not be affected.
11. The project proponent will provide protective respiratory devices to workers working in dusty areas 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



  
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out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.

12. Solid waste material viz., gutkha pouchs, plastic bags, glasses etc. to be generated during project activity will be separately stored in bins and managed as per Solid Waste Management rules.
13. Natural /customary paths used by villagers should not be obstructed at any time by the activities proposed under the project. Transportation of sand is to be carried out with consent of Villagers and Trucks are to be covered with Tarpaulin.
14. Local flora may be planted in the Core Zone of the Mining Lease area.
15. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
16. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
17. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
18. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
19. 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 Jharkhand / Central Ground Water Board.
20. 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.
21. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
22. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
23. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
24. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein

#### **B. General conditions:**

#### **As per the latest guidelines of MoEF & CC regarding Sustainable Sand Mining Management Guidelines 2016 –**

1. EC is subject to having valid lease and all statutory clearance as applicable.

2. Monitoring Committee including Local Panchayat, to check on traffic due to transportation and submit an annual report on the same.
3. To maintain safety and stability of Riverbanks i.e. 3 meter or 10% of the width of the River whichever is more will be left intact as no mining zone.
4. Ultimate working depth shall be up to 3.0 m from Riverbed level and not less than one meter from the water level of the River channel whichever is reached earlier.
5. The directions given by the Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLP(C) Nos. 19628-19629 of 2009] and order dated 05.08.2013 of the Hon'ble National Green Tribunal in application No. 171/2013 may be strictly followed.
6. All the provisions made and restrictions imposed as covered in the Minor Mineral Rule, shall be complied with, particularly regarding Environment Management Practices and its fund management and Payment of compensation to the land owners.
7. District level Survey Report should be prepared and area suitable for mining and area prohibited for mining be identified.
8. No River sand mining be allowed in rainy season.
9. 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.
10. In River flood plain mining a buffer of 3 meter to be left from the River bank for mining.
11. In mining from agricultural field a buffer of 3 meter to be left from the adjacent field.
12. Mining shall be done in layers of 1 meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
13. No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.
14. No blasting shall be resorted to in River mining and without permission at any other place.
15. Depending upon the location, thickness of sand, deposition, agricultural land/Riverbed, the method of mining may be manual, semi-mechanized or mechanized; however, manual method of mining shall be preferred over any other method.
16. Mining should be done only in area / stretch identified in the District Level Survey Report suitable for mining and so certified by the Sub- Divisional Level Committee after site visit.
17. 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 District Level Committee.
18. The top soil in case of surface land mining shall be stored temporarily in an earmarked site and concurrently used for land reclamation.
19. The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and

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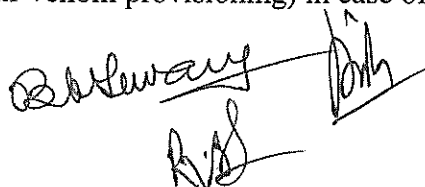
mine plan. This should be produced before officers of Central Government and State for inspection.

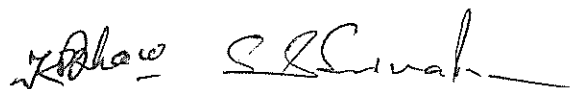
20. For each mining lease site the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.
21. The State / District Level Environment Committee should use technology like Bar Coding, Information and Communications Technology (ICT), Web based and ICT enabled services, mobile SMS App etc. to account for weight of mineral being taken out of the lease area and the number of trucks moving out with the mineral.
22. There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.
23. Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit.
24. Restricted working hours. Sand mining operation has to be carried out between sun rise to sun set.
25. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly.
26. 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.
27. 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 used.
28. The mining operations are to be done in a systematic manner so that the operations shall create a major visual impact on the site.
29. Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder should plant and maintain for lease period at least 50 gabion plantation in area near lease and road connecting lease area.
30. 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 thereunder.
31. Protection of turtle and bird habitats shall be ensured.
32. No felling of tree near quarry shall be allowed. For mining lease within 10km of the National Park / Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wild Life (NBWL) have to be obtained as per the Hon'ble Supreme Court order in I.A. No. 460 of 2004.
33. Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.



34. Removal, stacking and utilization of top soil in mining are should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.
35. The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures.
36. Use of oversize material to control erosion and movement of sediments.
37. No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope.
38. No extraction of sand in landslide prone areas shall be carried out.
39. Controlled clearance of riparian vegetation to be undertaken
40. Site clearance and tidiness is very much needed to have less visual impact of mining.
41. Dumping of waste shall be done in earmarked places as approved in Mining Plan.
42. Rubbish burial shall not be done in the Rivers.
43. The EC holder shall take all possible precautions for the protection of environment and control of pollution.
44. Effluent discharge should be kept to the minimum and it should meet the standards prescribed.
45. Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical, and archeological importance.
46. Vehicles used for transportation of sand are to be permitted only with of fitness and PUC Certificates.
47. Junction at takeoff point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.
48. Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
49. No stacking allowed on road side along National Highways.
50. The Project Proponent shall undertake phased restoration, reclamation and rehabilitation of land affected by mining and completes this work before abandonment of mine.
51. Site specific plan with eco-restoration should be in place and implemented.
52. Health and safety of workers should be taken care of.
53. The Project Proponent shall make arrangement for drinking water, first aid facility (along with species specific anti-venom provisioning) in case of emergency for the workers.







54. The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.
55. 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 six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for labour for ensuring good occupational environmental for mine workers would also be adopted.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**A. Specific Condition:**

1. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 should be followed.
2. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.
3. Efforts shall be made to make use of run off water and proper rain water harvesting scheme should be implemented.
4. The total water requirement shall not exceed 35m<sup>3</sup>/day. Permission from the Competent Authority shall be obtained in case of drawl of the water exceed the above limit . No effluent shall be discharged and 'zero' discharge shall be adopted.
5. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Ranchi, JSPCB and CPCB within 3 months of issue of environment clearance letter.
6. As proposed, green belt shall be developed in 33 % of the plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the Forest Department.
7. At least 5 % of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details along with expenditure incurred shall be submitted to the Ministry's Regional Office at Ranchi and SEIAA, Jharkhand on annual basis.
8. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
9. The ash and coal tar generated during the process shall be disposed off in prescribed manner and the project proponent should keep detailed account of mode and place of disposal. Coal tar shall be sold to authorized recycler & record shall be kept properly.
10. Mill Scale / End cut steel scrap & Skill generated shall be recycled in the main plant SMS / Sinter plant & record shall be kept.
11. As per the Pre Feasibility Report Coal gasifier shall be used instead of pulverized coal, hence the proponent has informed that they shall not install wet scrubber and bag filters, hence the by product produced during producer gas processing, shall be disposed in a scientific manner.
12. The coal ash generated during the process was suggested to be handed over to M/s UCIL for backfilling along with their solid waste material. It is essential to have chemical analysis report of the coal ash before it is handed over to M/s UCIL.

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## **B. General Conditions:**

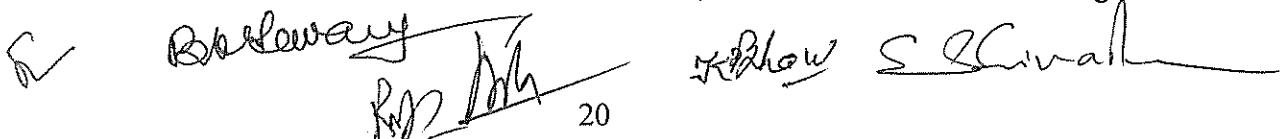
1. The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board.
2. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Jharkhand.
3. The gaseous emissions from process units shall conform to the load/mass based standards notified by this Ministry on 19<sup>th</sup> May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.
4. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be monitored regularly & submitted to this Ministry including its Regional Office at Ranchi and the SPCB/CPCB once in six months.
5. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose or green belt development.
6. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).
7. That he (they) shall monitor his (their) effluent(s), emission(s) and the ambient air, noise level regularly and shall submit the report to the Board in compliance of the condition laid in paragraph 7.
8. That, he (they) shall ensure the cleaning and wetting of ground regularly to improve house keeping.
9. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
10. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
11. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development & educational programmes, drinking water supply and health care etc.
12. Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Ranchi. The funds so provided shall not be diverted for any other purpose.
13. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and AIADA, if any, from whom

suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.

14. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF & CC at Ranchi. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
15. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF & CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Ranchi / CPCB / SPCB shall monitor the stipulated conditions.
16. The environmental statement for each financial year ending 30<sup>th</sup> September in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF & CC at Ranchi by e-mail.
17. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests & Climate Change at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar.
18. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

### **C. Other Conditions:**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. In view of MoEF & CC O.M. No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.
3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their

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amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.

5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.