

PART- G MINUTES OF THE 38th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD FROM 18th to 24th DECEMBER, 2015

Date- 24th December, 2015

The 38th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held from 18th to 24th December, 2015. The meeting on 24th December was held under the Chairmanship of Sh. A.K. Saxena in the Conference Room at 170 C, Ashok Nagar, Ranchi. The following members were present:

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| 1. Sh. A.K. Saxena | - Chairman |
| 2. Sh. S.B.S Chauhan | - Member |
| 3. Er. S.K. Singh | - Member |
| 4. Dr. R.P. Singh Sangu | - Member |
| 5. Prof. (Dr.) M.C. Mahata | - Member |
| 6. Dr. Shatrunjay Kumar Singh | - Member |
| 7. Shri S.K. Suman | - Secretary |

Various projects which were received by SEIAA after the previous SEAC meeting held from 01st to 05th December, 2015 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 made during the Presentation (Project Wise) in brief deserve serious consideration.

A. Projects recommended to SEIAA for consideration of grant of EC.





1. Integrated Municipal Solid Waste Management Facility of M/s TATA Steel Ltd (TSL) at Village Barasai alias Rangamatiya, Tehsil Potka, District East Singhbhum, Jharkhand.

Consultants M/s Global Tech Enviro Experts Pvt Ltd, Bhubaneshwar

Jamshedpur is one of the oldest township and is considered as the largest existing industrial town in India. A major part of the city is under the Tata Steel lease and all the civic and allied services are provided by TSL under the lease agreement with Govt. of Jharkhand. Over all area under TATA Steels Ltd. is 64 Sq. Km, with a Population of 7 Lacs. In alignment with MSW Rules 2000, the estimated MSW generated from this township is 350 TPD. TATA Steel Ltd. has done due diligence in deciding on a single land unit for 28.68 acres at Rangamatiya Village, Tehsil - Potaka of East Singhbhum District in Jharkhand, approximately 22 kilometres from Jamshedpur city, for MSW Treatment and Landfill site development. The site is bounded by Latitude: 22° 37' 47" N & Longitude: 86° 10' 56" E. This site fulfils all the criteria of siting as per MSW (M&H) Rules 2000. TSL intends to develop an Integrated Municipal Solid Waste Management System, which would include modernized collection, transportation and development of a treatment and disposal facility. The project will take 24 months for completion and will be put into effect by Dec 2017 and the estimated budget allocated is 3589.17 lakhs.

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The municipal solid waste will be collected through compactors then transported Processing site. After processing the inerts will be disposed into Sanitary landfill followed by capping.

The proposed project will include processing, composting, ancillary facilities and sanitary landfill which will be accommodated in 28.68 acres of land. Sanitary landfill, leachate treatment plant area and processing area will be in 16.38 acre, 3.0 acre and 0.3 acre respectively and the remaining will be covered by ancillary facilities like other suitable processing technologies, green belt development area and rain water harvesting area etc.

The total water requirement will be 80m³/day during operational stage which will be met through ground water sources and rain water harvesting structures.

The total power consumption for the proposed project is 300KW/day which will be sourced from grid power supply Jamshedpur State Electricity Board. 380 KVA DG set will be installed to meet the required power in case of power failure.

70 nos. of people will be employed during operational phase which include managerial staffs, semiskilled, drivers and unskilled persons. During construction phase the manpower requirement is expected to increase about 140 nos.

Six to Seven transfer stations have been demarcated for short distance transfer of solid wastes from households. Adequate training facilities will also be provided to the workers involved in the entire management system. Modern technology and mechanism with modern vehicles have been adopted for successful implementation of the project. The equipments like Wheelbarrows, wheeled bins, metallic storage bins, tippers, dumper placers, Tata Ace mini tippers, JCB, Poclain, Bobcat, Dozer, washing tankers with jet sprayers etc have been proposed. The proposed unit is state of art unit which will convert MSW to compost, and one of its kind in Jharkhand State.

Representatives of M/s TATA Steel Ltd, JUSCO and their Consultants M/s Global Tech Enviro Experts Pvt Ltd, Bhubaneshwar made a detailed presentation before the Committee

Based on the presentation made and information provided the Committee decided that the proposal for the Integrated Municipal Solid Waste Management Facility of M/s TATA Steel Ltd (TSL) at Village Barasai alias Rangamatiya, Tehsil Potka, District East Singhbhum, Jharkhand be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC are given below.

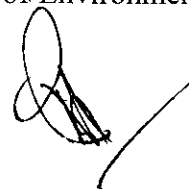
A. SPECIFIC CONDITIONS:

I. Construction Phase

- i. "Consent to establish" shall be obtained from Jharkhand Pollution Control Board under Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 and a copy of the same shall be submitted to the Ministry of Environment & Forests /



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State Level Environment Impact Assessment Authority before the start of any construction work at site.

- ii. All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- iii. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- iv. Construction spoils, including bituminous material and other hazardous material, must not be allowed to contaminate watercourses and the dump sites for such material must be secured, so that they should not leach into the ground water.
- v. Vehicles hired for bringing construction material to the site and other machinery to be used during construction should be in good condition and should conform to applicable air and noise emission standards.
- vi. Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.
- vii. Siting criteria as prescribed by CPCB / MOEF & CC shall be fulfilled.

II. Operation Phase

- i. "Consent for Operate" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before commissioning of the integrated facility.
- ii. A green belt of minimum 15 m width shall be provided all around the periphery of the project site and 5 m on the side abutting to the ETP.
- iii. The gas generated from the Landfill facility shall be collected and disposed / utilized as per rules.
- iv. The leachate from the facility shall be collected and treated to meet the prescribed standards before its reuse.
- v. The proponent shall obtain necessary clearance from the Groundwater Authority for abstraction of ground water, if required.
- vi. The depth of the landfill site shall be decided based on the groundwater table at the site and permission regarding the same shall be obtained from MoEF/PPCB.
- vii. Periodical ground water/soil monitoring to check the contamination in and around the site shall be carried out as per the provisions of Municipal Solid Waste (Management & Handling) Rules, 2000/Jharkhand Pollution Control Board requirements.
- viii. Spraying of an appropriate herbal sanitizer shall be adopted for odour control in addition to its vacuum suction and destroying in furnace.
- ix. Proper shed shall be provided for the compost yard to prevent the rain water coming in contact with the material in the compost yard. Periodical ground water / soil monitoring to check the contamination in and around the site shall be carried out as per requirements of the Jharkhand Pollution Control Board.
- x. All the recommendations of the EMP shall be complied with letter and spirit.
- xi. The Municipal Corporation shall ensure that the project comply with all the provisions of the Municipal Solid Waste (Management and Handling) Rules, 2000.



- xii. Regular ambient air quality monitoring shall be carried out for all the parameters mentioned in the notification dated 16th November, 2009 of the Ministry of Environment & Forests.
- xiii. The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguard under the supervision of a Senior Executive.
- xiv. Entire organic material shall be converted into manure. Recyclable material likewise glass, steel etc., shall be sold to recycler. Only inert material which cannot be either composted or recycled shall be sent to the Engineered Sanitary Landfill facility.
- xv. Effective safeguard measures shall be taken by Municipal Corporation to ensure that the AAQ levels at various locations are within permissible limits as prescribed by MoEF/PPCB.
- xvi. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
- xvii. Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored.
- xviii. The Risk assessment and disaster management plan should be prepared and implemented.
- xix. The project proponent shall ensure door to door collection by all ULB"s which will prevent the mixing of organic & inorganic waste fraction to check the odour problem.
- xx. Two-bin system (for organic & inorganic waste) shall be used in the towns. 50% of the generated waste shall go directly to the dumping sites, only the waste from the road sweeping shall come to primary collection points, wherein closed bins shall be provided along with one safai sewak, to prevent any littering in the densely populated areas. Daily lifting of these bins shall be ensured by the MC. Besides this, sanitizers shall be used for preventing of flourishing of flies & mosquitoes.
- xxi. TATA Steel Ltd shall ensure that there is no development works / human settlement within 500m radius from the secured landfill site in line with Municipal Solid Waste (Management and Handling Rules 2000).
- xxii. Necessary approval from competent authority shall be obtained, as required, with regard to movement of Municipal Waste from the collection point to landfill site.

B. GENERAL CONDITIONS:

- i. The project proponent should set up separate environmental management cell for effective implementation of the stipulated environmental safeguard under the supervision of a Senior Executive.
- ii. The project proponent should extend full support to the officers of SEIAA, Jharkhand / Regional / Head Office of JSPCB during inspection of the project for monitoring purposes by furnishing full details and action plan including action take reports in respect of mitigation measures and other environmental protection activities.
- iii. SEIAA, Jharkhand reserves the right to add additional safeguard measure subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- iv. In the event of a change in project profile or change in the implementation agency, a fresh clearance shall be obtained from SEIAA, Jharkhand.
- v. A copy of the environmental clearance letter shall also be displayed on the website of the Jharkhand State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.

- vi. Appropriate mitigative measures shall be undertaken by TATA Steel Ltd. to prevent pollution of water in consultation with the Jharkhand State Pollution Control Board. It shall be ensured that there will be no littering of solid waste from vehicles and the leachate/ surface run-off to be generated shall be collected with the help of lined ditches & treated properly.
- vii. Officials from the Regional Office of Ministry of Environment & Forests, State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee / Jharkhand Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection.
- viii. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority.
- ix. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, by Municipal Corporation from the competent authorities including Jharkhand Pollution Control Board and from other statutory bodies as applicable.
- x. TATA Steel Ltd. should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Jharkhand Pollution Control Board.
- xi. The advertisement should be made within seven days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office, Ministry of Environment & Forests, Ranchi.
- xii. These stipulations would be enforced among others under the provisions of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environmental (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
The proponent shall upload the status of 6 monthly compliance of the stipulated EC 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 MoEF, JSPCB, SEIAA Jharkhand. The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx, CO, Pb, Methane shall be monitored and displayed at a convenient locations.
- xiii. The post closure arrangement of the facility shall be made as per the Municipal Solid Waste (Management & Handling) Rules, 2000 and "Manual on Municipal Solid Waste Management" published by the Ministry of Urban Development and Municipal Corporation will be responsible for post closure of the facility and monitoring shall be done as per the Municipal Solid Waste (Management & Handling) Rules, 2000 / "Manual on Municipal Solid Waste Management" published by the Ministry of Urban Development/Jharkhand Pollution Control Board directions.
- xiv. 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.

2. Barajhinkpani Limestone Mine of M/s Sri Ram Sevak Yadav. Village Barajhikpani, PS Barajhikpani, District West Singhbhum, Jharkhand Area (9.30 Ha)

Consultant- Grass Root Research and Creation India Pvt Ltd, Noida

Barajhikpani Limestone Mine over 9.30 hectares of M/s Sri Ram Sevak Yadav is located in the West Singhbhum district of Jharkhand State. Mining lease was granted to M/s Accociated Cement Company by the Government of Bihar on 13.09.1965. The first renewal was granted for 20 years

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w.e.f 15.2.1985 for a period of 20 years i.e. upto 14.2.2005. In the meantime the mine lease was transferred in favour of M/s Sri Ram Sevak Yadav As per Form I they have mentioned a proposed production figure of 179987.79 tonnes of Limestone per year. The expected life of mine has been indicated as 5 years. The mine lease area located at latitude 220 22'27" to 220 23'00" N and longitude 85043'30" to 85044'00" E.

The project authorities along with their consultant M/s Grass Root Research and Creation India Pvt Ltd, Noida gave a detailed presentation on the EIA / EMP Report.

Based on the presentation made and information provided the Committee decided that the proposal for the Barajhinkpani Limestone Mine of M/s Sri Ram Sevak Yadav. Village Barajhikpani, PS Barajhikpani, District West Singhbhum, Jharkhand Area (9.30 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC are given below.

A. Specific Conditions

1. The Environmental Clearance is subject to renewal of mining lease as per rule 24A of mineral concession Rule 1960 and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. At the time of obtaining Consent to establish/ Consent to Operate, PP should submit site map duly signed by PP and DMO to JSPCB & SEIAA.
3. At the time of obtaining consent to operate, PP will erect boundary pillars to demarcate boundary of lease. GPS reading, backward – forward bearing & pillar to pillar distance is to written on each pillar. Pillar wise list will be submitted to SEIAA and JSPCB before issue of Consent to Establish/ Consent to Operate.
4. All the conditions stipulated by the State Pollution Control Board in their NOC shall be effectively implemented.
5. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
6. Necessary permission from the Forest Department for transportation of mineral through the forest road shall be revalidated before restarting mining operation.
7. The mining operations shall be restricted to above ground water table and it should not intersect 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.
8. The project proponent shall ensure that no natural watercourse 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.

9. Top soil should be stacked with proper slope at earmarked site(s) only with adequate measures and should be used for reclamation and rehabilitation of mined out areas.
10. The entire waste generated shall be backfilled and there shall be no external over burden dump left at the end of the mine life. The entire backfilled area shall be reclaimed by plantation. The back filling should be carried out in such a manner that it is restored to the normal ground level. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
11. Catch drains and siltation ponds of appropriate size should be constructed for the working pit, temporary OB dumps, if any and mineral dumps to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted, particularly after monsoon, and maintained properly.
12. Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and temporary dumps and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.
13. Dimension of the retaining wall at the toe of temporary dumps and OB benches within the mine to check run-off and siltation should be based on the rain fall data.
14. Plantation shall be raised in the 7.5m wide green belt in the safety zone around the mining lease by planting the native species around ML area, backfilled and reclaimed area, around water body, roads etc. in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.
15. Regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
16. The project authority 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/ Authority.
17. Regular monitoring of ground water level and quality should be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year i.e. January, April-May, August, November and the data thus collected may be sent regularly to Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office / Ground Water Directorate, Government of Jharkhand / Central Ground Water Board / Authority.
18. The project authorities should obtain prior approval of the competent authority for drawl of water required for the project.



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19. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board / Authority.
20. Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.
21. Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
22. Drills shall either be operated with dust extractors or equipped with water injection system.
23. 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.
24. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
25. 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.
26. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
27. 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.
28. Consent to operate should be obtained from JSPCB before starting production from the mine.

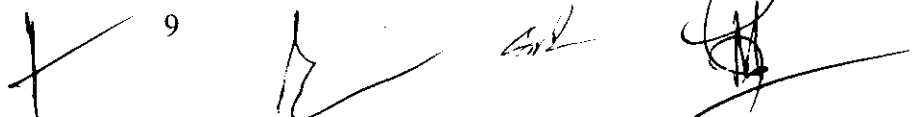
B. General conditions

1. No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.
2. No change in the calendar plan including excavation, quantum of mineral bauxite and waste should be made.
3. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
4. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.



5. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for SPM / RSPM (PM10 and PM 2.5) levels, SO₂ & NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
6. 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. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
7. Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
8. Industrial wastewater (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop.
9. 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.
10. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Dispensary facilities for First Aid shall be provided at site.
11. A separate environmental management 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.
12. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes. Year-wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.
13. 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.
14. 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.
15. 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, SO₂, NO_x (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a

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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.

16. 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. JSPCB should display a copy of the clearance letter at the Regional Office, District Industry Centre and DC's, Circle Officer's Office for 30 days. The project authorities should also advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the Jharkhand State Pollution Control Board
17. The environmental statement for each financial year ending 31st 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.
18. 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. 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.
3. The Environmental Clearance accorded shall be valid for the period of renewal of lease (generally 20 years) / life of mine or for 30 years whichever is less. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
4. 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.
5. 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.
6. 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.



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Proposals for Stone Mine

I. Dandiya Stone Deposit of Creo Sales India Pvt. Ltd at Village - Dandiya, Thana - Burmu, Thana No - 87, District - Ranchi, Jharkhand (16.18 Ha).

Consultant- Green Cindia Consulting Pvt Ltd, Ghaziabad, RQP- Sri P.K. Sen

This is a Stone Mining Project for having an area of 40.00 Acres (16.18 Ha) [Plot No. - 1336 (P), Khata no. - 138]. The committee noted that as per Form I it is a proposal for new project 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) 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 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 committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 2 Crore 21 Lakhs and a provision of Rs 5.36 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	99,26,606 Tonnes
Mineable Probable Reserve	:	16,151 Tonnes
Total Mineable Reserve	:	99,42,757 Tonnes

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

1 st Year	:	990794 Tonnes
2 nd Year	:	990398 Tonnes
3 rd Year	:	993468 Tonnes
4 th Year	:	994231 Tonnes
5 th Year	:	994065 Tonnes

The daily production as per Form-I is 3314 tonne.

PP has submitted certificates from Circle Officer, DFO & DMO. The informations were examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for Dandiya Stone Deposit of Creo Sales India Pvt. Ltd at Village - Dandiya, Thana - Burmu, Thana No - 87, District - Ranchi, Jharkhand over an area of 40.00 Acres (16.18 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 at Annexure I.

II. Hajam Stone Deposit of M/s Hiralal & Company at Mouza- Hajam, Plot no.- 657 (P) & 687(P), Khata no.-45, Thana no. - 281, District –Ranchi, Jharkhand (4.86 hectares)

Consultant- Green Cindia Consulting Pvt Ltd, Ghaziabad, RQP- Sri P.K. Sen

This is a Stone Mining Project for having an area of 12.00 acres (4.86 hectares) [Plot No. - 657 (P) & 687(P) , Khata no. -45]. The committee noted that as per Form I it is a proposal for new project 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) 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 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 committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 1 Crore 40 Lakhs and a provision of Rs 4.37 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	14,79,856 Tonnes
Mineable Probable Reserve	:	40,320 Tonnes
Total Mineable Reserve	:	15,20,176 Tonnes

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

1 st Year	:	301574 Tonnes
2 nd Year	:	300216 Tonnes
3 rd Year	:	303016 Tonnes
4 th Year	:	305060 Tonnes
5 th Year	:	310310 Tonnes

The daily production as per Form-I is 1034 tonne.

PP has submitted certificates from Circle Officer, DFO & DMO. The informations were examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for Hajam Stone Deposit of M/s Hiralal & Company at Mouza- Hajam, Plot no.- 657 (P) & 687(P), Khata no.-45, Thana no. - 281, District –Ranchi, Jharkhand over an area of 12.00 acres (4.86 hectares) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given at Annexure I.

III. Hajam Stone Deposit of M/s Hiralal & Company at Mouza- Hajam, Plot no.- 1009 (P), Khata no.-45, Thana no. - 281, District –Ranchi, Jharkhand (4.86 hectares)

Consultant- Green Cindia Consulting Pvt Ltd, Ghaziabad, RQP- Sri P.K. Sen

This is a Stone Mining Project for having an area of 12.00 acres (4.86 hectares) [Plot No. - 1009(P) , Khata no. -45]. The committee noted that as per Form I it is a proposal for new project 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) 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 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 committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 1 Crore 10 Lakhs and a provision of Rs 3,59,300/- will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	35,40,600 Tonnes
Mineable Probable Reserve	:	10,080 Tonnes
Total Mineable Reserve	:	35,50,680 Tonnes

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

1 st Year	:	355177 Tonnes
2 nd Year	:	355135 Tonnes
3 rd Year	:	350566 Tonnes
4 th Year	:	351014 Tonnes
5 th Year	:	355169 Tonnes

The daily production as per Form-I is 1184 tonne.

PP has submitted certificates from Circle Officer, DFO & DMO. The informations were examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for Hajam Stone Deposit of M/s Hiralal & Company at Mouza- Hajam, Plot no.- 1009 (P), Khata no.-45, Thana no. - 281, District –Ranchi, Jharkhand over an area of 12.00 acres (4.86 hectares) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given at Annexure I.

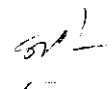
IV. Lowadih Stone Mine of M/s Niraj Kumar Singh at Village- Lowadih, Block—Patratu, Dist.- Ramgarh, Jharkhand (3.31 Ha)

V. Lowadih Stone Mine of M/s Niraj Kumar Singh at Village- Lowadih, Block—Patratu, Dist.- Ramgarh, Jharkhand (1.94 Ha)

at
of
of
Gangaul stone mine of m/s Niraj Kumar Singh at Village- Lowadih, Block—Patratu, Dist.- Ramgarh, Jharkhand (3.72 Ha)
Bardua stone mine of m/s Niraj Kumar Singh at Village- Lowadih, Block—Patratu, Dist.- Ramgarh, Jharkhand (4.86 Ha)
EC may be considered. Details of the project are attached in annexure-II



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Based on the presentation made and information provided the Committee decided that the proposals for the above two projects be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given at Annexure I.

Annexure –I

A. Specific Conditions

1. The environmental clearance is subject to renewal 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. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
3. EC is subject to the grant of mining lease to the rightful owner.
4. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / National Green Tribunal / MOEF Guidelines applicable to Minor Minerals.
5. 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.
6. 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.
7. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
8. 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.
9. 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.
10. 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.
11. 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.

12. 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.
13. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
14. 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.
15. 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.
16. 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.
17. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
18. Vehicular emissions shall be kept under control and regularly monitored. 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.
19. 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.
20. Drills shall either be operated with the dust extractors or equipped with water injection system.
21. 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.
22. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
23. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
24. 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.

25. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
26. 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.
27. 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

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.
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,SO₂ ,NO_x (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 31st 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 be sent 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

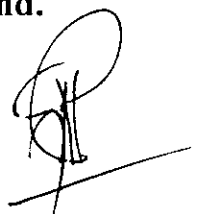
1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of renewal of lease for the mine (generally 10 years). 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 Trans 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.

B. Projects recommended to SEIAA for consideration of issue of TOR.

1. **Common Biomedical Waste Treatment Facility of M/s Medicare Environmental Management Pvt. Ltd. at Village- Lohardaga, Dist- Lohardaga, Jharkhand.**



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The salient features of the Common Biomedical Waste Treatment Facility are as follows

Project Title	Proposed Common Bio-Medical Waste Treatment Facility at Lohardaga Industrial Estate, Lohardaga (D), Jharkhand.
Consultant	RamkyEnviro Engineers Ltd, Hyderabad
Proponent	M/s Medicare Environmental Management Private Ltd, Gurgaon
Project Cost	Rs.10 Cr
Land Area	1 acre
Land Allotment by	Ranchi Industrial Area Development Authority vide letter no: 1195 Dated 26 th August 2015
Coverage Area	Ranchi, Gumla, Simdega, Latehar, Daltonganj, Khunti
Scope of work	Collection, Transportation, Treatment & Disposal of Bio-medical Waste
Equipment	Incinerator (Capacity 200 kg / hr) followed by venture, Scrubber, 30 Mt Height Chimney, Effluent Treatment Facility, Autoclave 330 ltr / batch), Shredder.
Capacity of Facility	Starting from 15000 beds to 25000 beds
Waste Handling Capacity	3 to 5 ton / days
Water consumption	20 KLD / day
Waste Water Generation	15 KLD to be treated within ETP and zero discharge total recycling
Power	0.079MW (79.39KW) fetched by Jharkhand State Electricity Board
Emergency Backup DG	100 KVA DG is maintained with optimal usage by using a High Sulfur Diesel with a capacity of 100 KVA
Disposal of ETP Sludge and Ash	To the nearest TSDF upcoming at Auto Cluster, Jamshedpur, Jharkhand

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held on 24th December, 2015, the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study.

The TORs prescribed for undertaking detailed EIA study are as follows:

- 1 Executive summary of the project.
- 2 Photographs of the proposed plant area.
- 3 Recent monitoring report which shall include data on AAQ, stack emission data, water quality, solid waste etc. shall be submitted.
- 4 Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental damages, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site. Compliance of criteria's as specified by CPCB and MOEF & CC has to be provided.
- 5 Submit the details of the road/rail connectivity along with the likely impacts and mitigative measures
- 6 Submit the present land use and permission required for any conversion such as forest, agriculture etc
- 7 Examine the details of transportation of Hazardous wastes, and its safety in handling.
- 8 Examine and submit the details of on line pollutant monitoring
- 9 Examine the details of monitoring of Dioxin and Furon.
- 10 Method of disposal of Ash, of scrubbing waste water, sludge through CETP and waste from the Bio- medical facility has to be covered in detail. Details of authorised vendor / person has to be furnished alongwith copy of MOU's. All statutory clearances are to be obtained and included in the EIA / EMP Report.
- 11 Examine and submit details of monitoring of water quality around the landfill site.
- 12 Examine and submit details of the odour control measures.
- 13 Examine and submit details of impact on water body and mitigative measures during rainy season.
- 14 Environmental Management Plan should be accompanied with Environmental Monitoring Plan and environmental cost and benefit assessment. Regular monitoring shall be carried out for odour control.

- 15 Water quality around the landfill site shall be monitored regularly to examine the impact on the ground water.
- 16 The storage and handling of hazardous wastes shall be as per the Hazardous Waste Management Rules. Hydrogeological studies of the study area are to be carried out and impact due the Bio-medical facility is to be assessed.
- 17 Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
- 18 Public hearing to be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.
- 19 A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
- 20 Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 21 The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 22 Assessment of Bio-medical wastes – Categorywise as per schedule of Bio-medical waste (Management and Handling) Rules 1998 covering 150 km radius of the common treatment facility.
- 23 A site location map on Indian map of 1:10, 00,000 scale followed by 1:50,000/1:25,000 scale on an A3/A2 sheet with at least next 10 Kms of terrains i.e. circle of 10 kms and further 10 kms on A3/A2 sheets with proper longitude/latitude/heights with min. 100/200 m. contours should be included. 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site.
- 24 Present land use should be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quick bird, Ikonos, IRS P-6 pan sharpened etc. for the 10Km radius area from proposed site. The same should be used for land used/land-cover mapping of the area.
- 25 Details and classification of total land (identified and acquired) should be included. Necessary documents indicating acquisition of land should be included.
- 26 Coordinates of the plant site with topo sheet co-ordinates should also be included.
- 27 A list of industries within 10 km radius of the plant area.
- 28 Residential colony should be located in upwind direction.

- 29 Action plan for the green belt development plan in 33 % area should be included. The species selected should be able to thrive on low nutrient soil. They should be able to adapt to local conditions and should be resistant to drought and extreme temperatures. PP should take up this activity immediately (since land has already been procured) and the details of plantation done should be given in EIA Report. The details of plantation already done should be given.
- 30 Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant reserves (existing as well as proposed), if any, within 10 km of the project should be clearly indicated. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/ Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished.
- 31 A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the project) shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 32 At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on Public Hearing proceedings and item-wise details along with time bound action plan should be included. Socio-economic development activities need to be elaborated upon.
- 33 Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
- 34 Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.

Process Related:

- 35 A line diagram / flow sheet for the process including existing units and EMP shall be submitted. Also details of technology may be included.
- 36 Project site layout plan showing raw materials and other storage plans, bore well or water storage, aquifers (within 1 km.) green areas, water bodies and rivers/drainage passing through the project site should be included.
- 37 List of raw material required and source along with mode of transportation should be included. All the trucks for raw material and finished product transportation must be "Environmentally Compliant".
- 38 Mass balance for the entire process should be included.



39 Studies for slurry, sludge material and solid waste generated should also be included.

Air Environment

40 Site-specific micro-meteorological data like temperature, relative humidity, hourly wind speed and direction, rainfall etc.

41 Ambient air quality at monitoring should be carried out adequately as per NAAQS 2009. Ambient air quality monitoring along with cumulative impact should be included for the day (24 hrs) for maximum GLC along with following:

- i. Emissions (g/second) with and without the air pollution control measures.
- ii. Meteorological inputs (wind speed, m/s), wind direction, ambient air temperature, cloud cover, relative humidity & mixing height using SODAR on hourly basis.
- iii. Model input options for terrain, plume rise, deposition etc.
- iv. Print-out of model input and output on hourly and daily average basis.
- v. A graph of daily averaged concentration (MGLC scenario) with downwind distance at every 500 m interval covering the exact location of GLC.
- vi. Details of air pollution control methods used with percentage efficiency that are used for emission rate estimation with respect to each pollutant.
- vii. Applicable air quality standards as per LULC covered in the study area and % contribution of the proposed plant to the applicable Air quality standard. In case of expansion project, the contribution should be inclusive of both existing and expanded capacity.
- viii. No. I-VII are to be repeated for fugitive emissions and any other source type relevant and used for industry.
- ix. Graphs of monthly average daily concentration with down-wind distance.
- x. Specify when and where the ambient air quality standards are exceeded either due to the proposed plant alone or when the plant contribution is added to the background air quality.

42 Fugitive dust protection or dust reduction technology for workers within 30 m of the plant active areas.

43 Determination of atmospheric inversion level at the project site and assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features.

44 Air pollution control measures during charging of raw materials and during operation of the furnace shall be detailed.



- 45 Air Quality Impact Predication based on CPCB/MoEF approved model(s) shall be presented.
- 46 Impact of the transport of the raw materials and end products on the surrounding environment should be assessed and provided.
- 47 An action plan to control and monitor secondary fugitive emissions from all the sources as per the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008.

Water Environment

- 48 Presence of aquifer/aquifers within 1 km of the project boundaries and management plan for recharging the aquifer should be included.
- 49 If surface water is used from river, rainfall, discharge rate, quantity, drainage and distance from project site should also be included.
- 50 Ground water analysis at 8 locations with bore well data, litho-logs, drawdown and recovery tests to quantify the area and volume of aquifer and its management.
- 51 'Permission' for the drawl of water should be obtained from concerned authorities. Water balance data must be provided.
- 52 Action plan for rainwater harvesting measures should be prepared and the same should be got duly approved from Ground Water Directorate, Government of Jharkhand / Central Ground Water Board / Authority .
- 53 Surface water quality at 8 locations must be ascertained.
- 54 If the site is within 10 km radius of any major river, Flood Hazard Zonation Mapping is required at 1:5000 to 1:10,000 scale indicating the peak and lean river discharge as well as flood occurrence frequency.
- 55 Pre-treatment of raw water, treatment plant for waste water should be described in detail. Design specifications may be included.

Solid Waste Management

- 1 Action plan for solid/hazardous waste generation, storage, utilization and disposal particularly char/slag/tailings from all the sources should also be included.
- 2 Identification and details of land to be used for all type of char/slag/tailings disposal in the secured land fill as per CPCB guidelines should be included.
- 3 End use of solid waste/slag and its composition should be covered.
- 4 Toxicity should be assessed following standard leaching procedures particularly the Toxicity Characteristic Leachate Procedure (TCLP) test for the slag.



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Safety and Health

56 Risk/Disaster Management needs to be provided.

57 Occupational Health:

- a) Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- b) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analysed data of abovementioned parameters as per age, sex, duration of exposure and department wise.
- c) Annual report of health status of workers with special reference to Occupational Health and Safety.
- d) Plan and fund allocation to ensure the occupational health & safety of all contract and sub-contract workers.

58 Corporate Environment Policy

- I. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- II. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms/ conditions? If so, it may be detailed in the EIA.
- III. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- IV. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.

59 Public hearing.

The following general points should be noted:

- I. Properly indexed, page numbered.
- II. Period/date of data collection should be clearly indicated. (non-monsoon)

- III. Authenticated English translation of all material in Regional languages should be provided.
- IV. The letter/application for environmental clearance should quote the SEIAA, Jharkhand file No. and also attach a copy of the letter.
- V. Site related monitoring shall be carried out for 3 months in one season (non monsoon).
- VI. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report
- VII. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.11 (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- VIII. The consultants involved in the preparation of EIA / EMP report after accreditation with Quality Council of India (QCI) / National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA /EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc.

It was decided that 'TORs' prescribed by the State level Environment Impact Assessment Authority (SEIAA) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Where the documents provided are in a language other than English, an English translation should be provided. The final EIA report shall be submitted to the SEIAA for obtaining environmental clearance.

The TORs prescribed shall be valid for a period of two years for submission of the EIA/EMP Report as per OM F No. J11013/41/2006-IA-II(I) part dated 22nd August 2014.

1. Sand Mining Project of M/s Tata Steel Ltd Tatangabad. at Vill- Tatangabad, Dist- Dhanbad, Jharkhand. (Area- 34.66 ha).

PP has not submitted the approved Mining Plan as such the project could not be considered.

2. Sand Mining Project of M/s Tata Steel Ltd at Vill- Bhatua and Ranipokhar, Tehsil- Chas, Dist- Dhanbad, Jharkhand. (Area- 44.41 ha)

PP has not submitted the approved Mining Plan as such the project could not be considered.

3. Barhe Stone Deposit having an area of 8.44 acres (3.41Ha) located at P S Mandar District Ranchi Jharkhand.



Two number of applications have been received for the said plot.

Application Nos 1. Applicant CREO Sales India Pvt Ltd, Consultant Green C India Consulting Pvt Ltd, Ghaziabad RQP Shri P K Sen. Under this application the mineable reserves have been estimated as 12,06,156 tonnes and annual production has been indicated as 804 tonnes per day. Project Cost Rs 92 lakhs.

Application Nos 2. Applicant Shree Vinayaka Mining and Construction, Consultant Safe Environment, Jamshedpur, RQP Shri G S Jaiswal. Under this application the mineable reserves have been estimated as 8,02.659.75 tonnes and annual production has been indicated as 535.10 tonnes per day. Project Cost Rs 49.67 lakhs.

SEAC went through both the presentations and found them in order. However it decided that the recommendation for EC can only be made / considered after obtaining clarification from Department of Mines, Government of Jharkhand regarding rightful grant of Mining Lease (Letter of Intent) out of the two applicants mentioned above. SEIAA is requested to write to Department of Mines, Government of Jharkhand and seek clarification in the matter.

4. Kurunda Stone Mining of M/s Venkateswara Crushing & Mining Cpmpany at Village – Kurunda, Tehasil – Sardari, Dist- Dumka, Jharkhand. (Area- 4.37 ha)

PP did not turn up for the meeting.

5. Charra Magnetite Iron Ore Mine of M/s Rajiv Ranjan Gupta at Village – Charra, Dist- Latehar, Jharkhand. (Area- 4.21 ha)

PP did not turn up for the meeting.

6. Sadhwadih Stone Mine of Shri Sitaram Tiwary at Village – Sadhwadih, Dist- Latehar, Jharkhand. (Area- 0.4 ha)

PP did not turn up for the meeting.

7. Stone Quarry of M/s B.S.C. C &C Construction Ltd. at Village – Chaparvar, Thana – Hariharganj, Dist- Palamu, Jharkhand. (Area- 2.02 ha)

PP did not turn up for the meeting.

8. Maharajganj Pyroxenite Deposit of M/s Jaganath Cement Works (P) Ltd. at Village- Maharajganj, P.S.- RAjnaragar, Dist- Saraikela Kharsawan, Jharkhand. (Area- 13.644 Ha).

This is a case of Violation. PP was asked to submit an Undertaking as required in the violation cases. Once the same is submitted SEAC will review the proposal.

9. Brahamandungri Soapstone Mining of M/s Ganga Engineering at Village- Brahamandungri, Taluka- Rajnagar, Dist.- Saraikela-Kharsawan, Jharkhand (31.36 Ha).



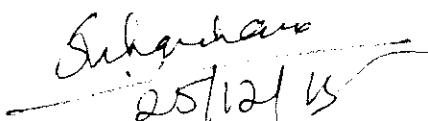
This is a case of Violation. TOR's were issued to PP and credible action was initiated. PP was asked to submit the status of Credible action. Once the same is submitted SEAC will review the proposal.

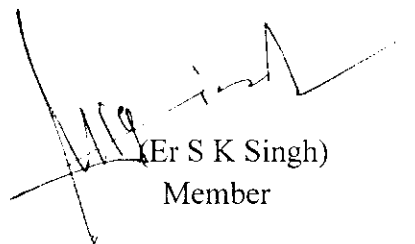
10. Kedro Quartzite Mine of M/s Bharat Mining Company Prop- Narendra Singh, Dist- Singhbhum Ease, Jharkhand. (Area- 5.879 Ha).


PP has submitted Mining Plan/ Mining Scheme to Department of Mines, Government of Jharkhand for approval and is pending with them. Once the same is approved the proposal can be examined.

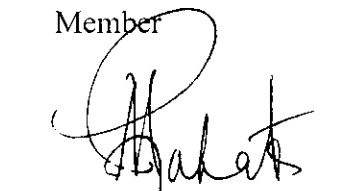
11. Gamarkocha Pyroxenite Mine of M/s Khirod Mudi at Village- Gamarkocha, Dist.- East Singhbhum, Jharkhand (14.07 Ha).

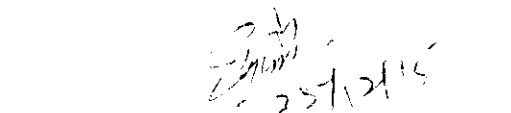
PP has submitted Mining Scheme to Department of Mines, Government of Jharkhand for approval and is pending with them. Once the same is approved the proposal can be examined.



25/12/15
(S.B.S Chauhan)
Member

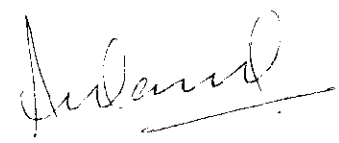

Er S K Singh
Member


25/12/15
(Dr. R.P. Singh Sangu)
Member


(Prof. (Dr.) M.C. Mahata)
Member


25/12/15
(Prof (Dr) Shatrunjay Kumar Singh)
Member


(S.K. Suman)
Secretary


(A K Saxena)
Chairman

I. Lowadih Stone Mine of M/s Niraj Kumar Singh at Village- Lowadih, Block-Patratu, Dist.- Ramgarh, Jharkhand (3.31 Ha)

Consultant- M/s Pollution & Ecology Control Services, RQP- Sri R.K. Prakash

This is a Stone Mining Project for having an area of 3.31 Ha [Plot No. - 263 (P) , Khata no. - 20]. The committee noted that as per Form I it is a proposal for new project 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) 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 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 committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 25.00 Lakhs and a provision of Rs 2.50 Lakh will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 9,52,868 t

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

1 st Year	:	1,90,425 t
2 nd Year	:	1,90,425 t
3 rd Year	:	1,90,425 t
4 th Year	:	1,90,425 t
5 th Year	:	1,90,425 t

The daily production as per Form-I is 635 tonne.

PP has submitted certificates from Circle Officer, DFO & DMO. The informations were examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for Lowadih Stone Mine of M/s Niraj Kumar Singh at Village- Lowadih, Block—Patratu, Dist.- Ramgarh, Jharkhand (3.31 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 at Annexure I.

II. Lowadih Stone Mine of M/s Niraj Kumar Singh at Village- Lowadih, Block—Patratu, Dist.- Ramgarh, Jharkhand (1.94 Ha).

Consultant- M/s Pollution & Ecology Control Services, RQP- Sri R.K. Prakash

This is a Stone Mining Project for having an area of 1.94 Ha [Plot No. - 282 (P) , Khata no. - 20]. The committee noted that as per Form I it is a proposal for new project 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) 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 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 committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 25.00 Lakhs and a provision of Rs 2.50 Lakh will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 4,76,562 t

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

1 st Year	:	95,300 t
2 nd Year	:	95,300 t
3 rd Year	:	95,300 t
4 th Year	:	95,300 t
5 th Year	:	95,300 t

The daily production as per Form-I is 318 tonne.

PP has submitted certificates from Circle Officer, DFO & DMO. The informations were examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for Lowadih Stone Mine of M/s Niraj Kumar Singh at Village- Lowadih, Block— Patratu, Dist.- Ramgarh, Jharkhand (1.94 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 at Annexure I.

III. Gangidih Stone Mine of M/S G.V.R Infra Project Ltd. at Mouza- Gangidih, Thana & Block- Rajnagar, Dist.- Saraikela-Kharsawan, Jharkhand (3.72 Ha).

Consultant- Safe Environment, Jamshedpur, RQP- Dr. G.S Jaiswal

This is a Stone Mining Project for having an area of 3.72 Ha [Khata No. - 26, Plot No.- 106]. The committee noted that as per Form I it is a proposal for Existing mine lease for which PP is seeking EC. The lease was valid w.e.f. 13.08.2010 for a period of 10 years. 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 decision taken by SEIAA in its 31st 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 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 committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 44.95 Lakhs and a provision of Rs 16.60 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	9, 39,467 t
Mineable Probable Reserve	:	95,119 t

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

1 st Year	:	2, 90,000 t
2 nd Year	:	2, 90,000 t
3 rd Year	:	2, 90,000 t
4 th Year	:	2, 90,000 t
5 th Year	:	2, 02,941 t

The daily production as per Form I is 967 tonnes.

PP has submitted certificates from Circle Officer, DFO & DMO. The informations were examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for Gangidih Stone Mine of M/S G.V.R Infra Project Ltd. at Mouza- Gangidih, Thana & Block- Rajnagar, Dist.- Saraikela-Kharsawan, Jharkhand (3.72 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 at Annexure I.

IV. Bandua Stone Mine of M/s Shree Mineral (Sri Anish Kumar Murarka) at Village- Bandua, Tehsil- Rajnagar, Dist.- Saraikela-Kharsawan, Jharkhand. (4.86 Ha).

Consultant- M/S Visiontek Consultancy Services Pvt Ltd, Bhubaneshwar, RQP- Sri B. Tirkey

PP had earlier applied for EC considering Khata No.- 132. PP had approached SEIAA to revise the Khata no. 132 to Khata no. 192.

Project proponent has modified by Form-I & PFR. SEIAA decides to refer the matter to SEAC for its consideration.

PP has now revised his application considering Khata No.- 192

This is a Stone Mining Project for having an area of 4.86 Ha [Khata No.- 192, Plot No.- 1569 (P) & 1324 (P)]. The committee noted that as per Form I it is a proposal for new project 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) 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 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 committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 43.12 Lakh and a provision of Rs 4.80 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 35,68,018 t

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

1 st Year	:	1,98,424 t
2 nd Year	:	2,13,381 t
3 rd Year	:	2,30,256 t
4 th Year	:	2,38,950 t
5 th Year	:	2,46,375 t

The daily production as per Form I is 821 tonnes.

PP has submitted certificates from Circle Officer, DFO & DMO. The informations were examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for Bandua Stone Mine of M/s Shree Mineral (Sri Anish Kumar Murarka) at Village-Bandua, Tehsil- Rajnagar, Dist.- Saraikela-Kharsawan, Jharkhand. (4.86 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 at Annexure I.