



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
(SEIAA), ODISHA.**

(Constituted vide Order No. S.O. 3387 (E) Date 15.12.2015 of Ministry of Environment Forest & CC, Govt. of India,
Under Environment Protection Act, 1986.)
Qr. No. 5RF-2/1, Unit - IX, Bhubaneswar - 751022
E-mail : seiaaorissa@gmail.com

Ref. No. SEIAA/ 2401

Date 06.01.17

File.No:16765/08-NCMB1/07-2016

To

Mr. Deepak Dash, Vice President
M/s Prakash Industries Ltd.,
93, 1st Floor, Kharavel Nagar,
Unit-3, Bhubaneswar -751001
E-mail-steel.power@rediffmail.com

Sub: Proposal for Environmental Clearance for Sirkaguttu Iron & Manganese Ore Mine for production of iron ore of capacity 1.325 MTPA over an area of 19.532 ha. at village Sirkaguttu, Tehsil Telkoi in the district of Keonjhar of M/s. Prakash Industries Ltd.

Sir,

This has reference to your letter no.nil dated 24.06.2014, letter no. PIL/BBSR/14-15/376 dated 30.09.2014, Letter no. PIL/BBSR/16-17/425 dated 12.07.2016, Letter no. PIL/BBSR/16-17/433 dated 16.12.2016 and letter no. 5-ORB217/2014-BHU dated 04.01.2017 from MoEF, Eastern Regional Office, Bhubaneswar dated 04.01.2017 seeking environmental clearances for the above project under EIA Notification 2006. The proposal has been appraised as per the provisions under the EIA Notification 2006 and on the basis of the documents enclosed with the application and clarifications furnished in response to the observations of the State Expert Appraisal Committee, Odisha.

Sirkaguttu Iron & Manganese Ore Mine over 19.532 ha is located in village Sirkaguttu under Banspal tehsil of Keonjhar district in Odisha. The lease was sanctioned in favour of M/s Prakash Industries Limited on dt. 17.06.2009 and the Letter of Intent(LOI) was issued on dt.07.01.2010. M/s Prakash Industries Limited is a public limited company and has set up an Integrated Steel Plant at Champa, Chattisgarh in

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1993. The iron ore excavated from the Sirkaguttu Iron & Manganese Ore Mine shall meet a part requirement of its steel plant. The mining plan for the said mine is approved by IBM on 13.10.2010. The lease area over 19.532 ha encompasses 3.8332 ha village forest for which the diversion proposal has been submitted and the Regional Empowered Committee, MOEF&CC, Bhubaneswar has cleared the project. The ML area finds its place over Survey of India toposheet no. 73G/5 having latitude 21°47'18" to 21°47'27" N; longitude 85°19'39" to 85°19'51" E. The village road on the eastern part of the ML area connects Koida of Sundergarh district at a distance of 26km by a ghat road via Teherai, Patamunda. The lease can also be approached from Keonjhar via Banspani.

The mine shall be developed to produce 1.325MTPA (Peak rated capacity) of iron ore in phased manner and shall be achieved in the fifth year of operation. The geological reserve as estimated based on the exploration data is calculated to be 7.03 MT whereas the total mineable reserve is assessed to be 5.00 MT. Considering the production and mineable reserve as estimated at present, the life of the mine is anticipated to be 7 years. The area exhibits hilly terrain and the highest elevation is 929.75 m in the north western part of the lease area and the lowest elevation is 910.80m in the south eastern part of the ML area. A seasonal nala flows adjacent to the south western boundary of the lease which meets Khandadhar nala. After long traverse, Khandadhar nala meets Malda nadi which is a tributary to River Baitarini.

It has been planned for opencast semi-mechanised method of mining on single shift basis with the use of machineries like jack hammer, compressor, pa loader, excavator, dumpers and tippers. There shall be generation of 1.44 MT of solid waste which shall be dumper eternally over ground during the initial three years and shall be backfilled over the exhausted area from the fourth year of mining operation. A total of 17.370 ha land shall be degraded for mining and ancillary activities, 2.0532 ha shall be kept for safety zone and 0.1088 ha shall be unutilized. During the conceptual period, 14.90 ha area shall be under quarry and the balance 2.47 ha of broken up land shall cater the requirement of dumping, stacking of ore and sub grade and infrastructures etc. The Lump ROM from the mine shall undergo crushing & screening for which it has been planned to install 200 TPH of mobile Crushing & Screening Plant each. Industrial water requirement for the mining project shall be 50KL/Day on average and 70KL/Day during peak summer. The ground water shall be tapped for meeting the The mine shall generated 198 nos. of employment in which the locals shall be given preference

depending on their skills and education. There is no national park, wildlife sanctuary, elephant corridors and environmental sensitive places in the near vicinity. The project cost as per latest estimates is Rs. 542.00 Lakhs.

To assess the environmental condition of the area, monitoring of environmental parameters were carried out between December 2014 to February 2015. The study area covers part of three blocks in Keonjhar district i.e. Joda, Jhurapura & Banspal and part of Koida block in Sundergarh district. Pollution control measures shall be adopted in respect of air, water, solid waste etc. to keep the pollution level below the stipulated norm of CPCB. Regular water sprinkling on haul road, loading & unloading area and at various fugitive dust generating sources shall be carried out along with massive plantation in and around the ML area. To control the fugitive dust from crushing & screening plant, pollution control equipments shall be installed. There shall be no waste water generation from the ML area except surface run-off during monsoon. Control measures like garland drain, toe wall, check dams, settling ponds shall be constructed around the waste dump and drainage channel to arrest the suspended solids from the run-off. The mining operation shall create 14.90 ha of opencast void under quarry which shall be backfilled concurrently during the operation period with the OB/Waste generation. Public hearing was conducted for the project on 24.06.2016. Accordingly, The Term of Reference(TOR) for the proposal was issued by SEAC vide letter No. 211/SEAC-259 dt. 24.04.2015 and the project proponent had submitted final EIA/EMP report and made a detailed presentations before the SEAC on 07.10.2016.

Considering the information/documents furnished and additional clarifications provided during presentations made by the consultant M/s Centre for Envotech & Management Consultancy Pvt. Limited, Bhubaneswar on behalf of the project proponent, the State Expert Appraisal Committee (SEAC) after due considerations of the relevant documents submitted by the project proponent and clarifications /documents furnished to it have recommended for grant of Environmental Clearance with necessary stipulated conditions. However, environmental clearance shall be issued by the SEIAA after receipt of stage-I forest clearance from the proponent as stipulated in office memorandum No. J-11013/41/2006-IA.II(I) dt. 9.09.11. of MoEF&CC, Govt. of India. The copy of stage-I forest clearance for the proposal vide letter no.5-ORB217/2014-BHU dt.04.01.2017 has been received from Govt.of India, Ministry of Environment,Forest & Climate Change, Eastern Regional Office,Bhubaneswar.



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The State Environment Impact Assessment Authority (SEIAA) after considering the proposal, copy of stage-I forest clearance and recommendations of SEAC, Odisha hereby accords Environmental Clearance in favour of the project under the provisions of EIA Notification 2006 and 2009 and subsequent amendments thereto subject to strict compliance of the stipulated conditions stated as follows.

Stipulated Conditions:

1. The applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by him in Form-1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
2. The applicant will take necessary steps for socio-economic development of the people of the area on need based assessment for providing employment, education, health care, drinking water and sanitation, road and communication facilities etc.
3. The applicant will comply to the points, concerns and issues raised by the people during public hearing on 24.06.2016 in accordance with the commitments made by him thereon.
4. The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.
5. For post environmental clearance monitoring, the applicant will submit half-yearly compliance report in respect of the stipulated terms and conditions of Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Odisha, State Pollution Control Board (SPCB), Odisha & Regional Office of the Ministry of Environment & Forest, Odisha on 1st June and 1st December of each calendar year.
6. The core zone should be monitored intensively with no. of stations as prescribed by CPCB, Delhi and unit of pollutant level should be expressed as NAAQ of CPCB, Delhi. The detailed methodology adopted for analysis of samples shall be clearly indicated.
7. The proponent shall submit baseline data on flora & fauna and CSR activities already carried out within three months to the SEIAA.
8. Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.
9. The following shall be implemented viz. (a) dump run-off should be diverted into settling ponds (b) adequate rain water harvesting and ground water recharging facilities should be developed in the core zone; (c) attempt should be made to achieve zero water balance.
10. Maintenance of roads through which transportation of ores are undertaken shall be carried out by the project proponent regularly at its own cost.
11. Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools

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- and other public amenities located nearest to sources of dust generation as applicable) and records shall be submitted to the SEIAA, Odisha.
12. Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
 13. Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore / dust takes place.
 14. Rain water harvesting shall be undertaken to recharge the ground water source.
 15. Monitoring of ground and surface water quality shall be regularly conducted and records should be maintained and data shall be submitted regularly to the SEIAA, Odisha.
 16. The proponent shall ensure that no silt originating due to mining activity is transported in the surface water course. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.
 17. Trenches / garland drains shall be constructed at foot of dumps to arrest silt from being carried to water bodies. Adequate number of Check Dams shall be constructed across seasonal/perennial nallahs (if any) flowing through the ML area and silts be arrested. De-silting at regular intervals shall be carried out.
 18. Provision shall be made for the housing of the labourers 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.
 19. Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. The Proponent shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action wherever required. Occupational Health Centre shall be established near the mine site itself.
 20. Shelter belt i.e. Wind Break of 15 m width and consisting of at least 5 tiers around lease facing the human habitation, school / agricultural fields etc. (if any in the vicinity), in the safety zone/ back-filled & reclaimed areas, around voids & roads shall be raised. Green belt development and selection of plant species shall be as per CPCB guidelines. Density of the trees has to be around 2500 plants per hectare. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation. Help & guidance of local DFO may be sought in the

matter. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the SEIAA, Odisha within six months.

21. **This Environmental Clearance is subject to Forest Clearance under the Forest (Conservation) Act, 1980.**
22. The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table.
23. The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long (not more than 3 years). The topsoil shall be used for land reclamation and plantation.
24. The over burden (OB) generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and its phase-wise stabilization shall be carried out. Proper terracing of OB dump shall be carried out so that the overall slope shall not exceed 28°. Backfilling shall be done as per approved mining plan. Back-filling to start from 3rd year onwards of the mining operation & the entire quantity of waste generated shall be backfilled & liquidated within five years. There shall be no external over-burden dumps after the 6th year of the mining operation. The backfilled area shall be afforested. Back-filling has to be done in a manner that it is restored to the normal ground level. Monitoring & management of rehabilitated areas should continue till the vegetation is established & becomes self-generating. Compliance status to be reported to the appropriate authorities.
25. The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes. Year-wise expenditure for this fund should be reported to the SEIAA, Odisha.
26. The critical parameters in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, pH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.
27. A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the SEIAA 5 years in advance of final mine closure for approval.
28. The project proponent shall obtain necessary prior permission of the competent authorities for drawal of requisite quantity of water (surface water and ground water) required for the project.
29. The project proponent shall prepare wild life conservation plan in consultation with DFO and adequate safety and mitigation measures should be incorporated to protect the wild life, flora, fauna to mitigate adverse impact.
30. The Proponent 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 copy of the clearance

letter is available in the website of the SEIAA, Odisha and the Odisha State Pollution Control Board (OSPCB) and may also be seen on the website of the Board. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of MoEF & CC, Bhubaneswar.

31. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.
32. The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tahsildar's Office for 30 days.
33. 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 concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall be put on the website of the company along with the status of compliance of Environmental Clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment, Forests and Climate Change, Bhubaneswar and SEIAA, Odisha by e-mail.
34. The Proponent shall upload the status of 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&CC, Bhubaneswar, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
35. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Odisha.
36. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
37. The SEIAA, Odisha reserves the right to alter and modify the conditions and add additional safeguard measures or stipulate any further condition 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. The SEIAA, Odisha may revoke or suspend the order, if implementation of any of the stipulated conditions is not satisfactory.
38. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 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 Odisha and any other Court of Law relating to the subject matter.

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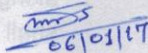
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39. That the grant of this Environment Clearance is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time being in force, rests with the project proponent.

40. Any appeal against the clearance lies 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.


The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this environmental clearance and attract action under the provisions of Environment Protection (EP) Act, 1986.

Yours faithfully,


06/01/17
Member Secretary

Memo No 2402 /Dt. 06.01.17
Copy to

1. Joint Secretary (Environment), Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.
2. Principal Secretary, Forests & Environment Dept., Government of Odisha for information.
3. Chairman, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
4. Additional Principal Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharapur Bhubaneswar for information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for information.
6. Collector, Keonjhar, Dist-Keonjhar for kind information and necessary action.
7. Chairman/Member/Member Secretary, SEIAA for kind information.
8. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
9. Guard file for record.


06/01/17
Member Secretary

