



राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण, म.प्र.
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)



पर्यावरण नियोजन एवं समन्वय संगठन
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी
भोपाल-462016 (म.प्र.)

वेबसाइट-<http://www.mpseiaa.nic.in>

दूरभाषनं. - 0755-2466970, 2466859

फैक्सनं. - 0755-2462136

No: 356/SEIAA/2025

Date: 24/05/2025

प्रति,

M/s J.K. Minerals,

Shri Deven Pradyuman Trivedi, Partner,

R/o Ward No. 15, Hanuman Mandir Road, Main Road,

District-Balaghat (MP)-481001

E-mail - jkminerals123@gmail.com

विषय :- Proposal No. SIA/MP/MIN/518477/2025- Case No 10839/2023 Prior Environment Clearance for Manganese Ore Mine (Opencast semi mechanized method) in an area of 5.26 ha. for production capacity of Manganese ore- 1000 TPA to 9799 TPA & Mine waste- 200 TPA, Khasra No. 48, 49, 50, 51, 54, Village-Katangjhari, Tehsil-Lalbarra, District Balaghat (MP) by M/s J.K. Minerals, Shri Deven Pradyuman Trivedi, Partner, R/o Ward No. 15, Hanuman Mandir Road, Main Road, District-Balaghat (MP)481001

विषयान्तर्गत प्रकरण में राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) द्वारा 768वीं बैठक दिनांक 28.01.2025 में विशेष शर्तों सहित पर्यावरण अनुमति प्रदान किये जाने की अनुशंसा कर प्रकरण दिनांक 03.02.2025 को राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण (SEIAA) को अग्रेषित किया गया। प्रश्नाधीन प्रकरण SEIAA की बैठक में विचारण नहीं होने के कारण 45 दिवस से अधिक की अवधि समाप्त हो गई है।

पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार की ईआईए अधिसूचना दिनांक 14.09.2006 के पैरा 8 की कंडिका (iii) इस प्रकार है - "In the event that the decision of the regulatory authority is not communicated to the applicant within the period specified in subparagraphs (i) or (ii) above, as applicable, the applicant may proceed as if the environment clearance sought for has been granted or denied by the regulatory authority in terms of the final recommendations of the Expert Appraisal Committee or State Level Expert Appraisal Committee concerned."

अतः ईआईए अधिसूचना के पैरा 8 की कंडिका (iii) के अनुसार उक्त प्रकरण में SEAC की 768वीं बैठक दिनांक 28.01.2025 में विशेष शर्तों सहित पर्यावरण स्वीकृति हेतु की गई अनुशंसा को अंतिम निर्णय मानते हुए राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा "Deemed Approval" माना जाकर पर्यावरण अनुमति दी जाती है। तदनुसार प्रकरण में ईआईए अधिसूचना के पैरा 8 की कंडिका (iii) के अनुसार आगामी आवश्यक वैधानिक कार्यवाही करने हेतु आप स्वतंत्र हैं।

(प्रमुख सचिव, पर्यावरण विभाग द्वारा अनुमोदित)

24/05/25

(श्रीमन् शुक्ला)

कार्यपालन संचालक, एण्डो

एवं सदस्य सचिव, SEIAA

प्रतिलिपि:-

1. प्रमुख सचिव, म.प्र. शासन, पर्यावरण विभाग, मंत्रालय, भोपाल।
2. संयुक्त सचिव, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, इंदिरा पर्यावरण भवन, जोर बाग रोड, नई दिल्ली - 110003।
3. उप सचिव, मुख्य सचिव कार्यालय म.प्र. शासन, मंत्रालय भोपाल (म.प्र.)।
4. अध्यक्ष, SEIAA, एप्को पर्यावरण परिसर भोपाल (म.प्र.)।
5. अध्यक्ष SEAC, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई-5 अरेरा कॉलोनी भोपाल (म.प्र.)।
6. सदस्य सचिव, SEAC एवं सदस्य सचिव, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई-5 अरेरा कॉलोनी भोपाल।
7. कलेक्टर, जिला बालाघाट (म.प्र.)।
8. वन मंडलाधिकारी, जिला बालाघाट (म.प्र.)।
9. निदेशक, क्षेत्रीय कार्यालय, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, केन्द्रीय पर्यावरण भवन, लिंक रोड नं. 03, रवि शंकर नगर, भोपाल।
10. संचालक, भौमिकी तथा खनिकर्म मध्यप्रदेश, 29-ए, खनिज भवन, अरेरा हिल्स, भोपाल - 462002।
11. खनिज अधिकारी, जिला बालाघाट (म.प्र.)।
12. संबंधित फाईल।

की ओर सूचनार्थ।

कार्यपालन संचालक, एप्को
एवं सदस्य सचिव, SEIAA

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9. Case No 10839/2023 Shri Deven Pradyuman Trivedi, Partner, M/s J.K. Minerals, R/o Ward No. 15, Hanuman Mandir Road, Main Road, District-Balaghat (MP)-481001, Prior Environment Clearance for Katangihari Manganese Ore Mine in an area of 5.26 ha. (Manganese ore- 1000 TPA to 9799 TPA & Mine waste- 200 TPA) (Khasra No. 48, 49, 50, 51, 54), Village-Katangihari, Tehsil-Lalbarra, District-Balaghat (MP). EIA PPT.

Earlier in the SEAC 711th meeting dated 09.11.2024 wherein ToR was recommended by the committee which was issued by SEIAA vide letter no. 3153/SEIAA/2024 Bhopal dated 29.02.2024 .

परियोजना विवरण	परियोजना प्रस्तावक द्वारा प्रस्तुत दस्तावेज	
परियोजना प्रस्तावक का नाम व पता	Shri Deven Pradyuman Trivedi, Partner, M/s J K MINERALS, Ward No. 15, Hanuman Mandir Road, Main Road, Balaghat (M.P.)	
खसरा नं./ क्षेत्रफल (सरकारी/निजी)	48, 49, 50, 51 and 54 (निजी-नॉन फॉरेस्ट लैंड कुछ खसरों के भू-स्वामियों की सहमति पत्र अपलोड नहीं है)	5.26 hectare.
स्थल	ग्राम कटंगझरी, तहसील लालबर्रा, जिला बालाघाट (म.प्र.)	
लीज स्वीकृति	कार्यालय कलेक्टर (खनिज शाखा) जिला बालाघाट के पत्र पृ. क्रमांक 701 दिनांक 04/06/15 के द्वारा स्वीकृत ।	
ब्लास्टिंग/रॉक ब्रेकर	Controlled blasting with low charge.	
प्रकरण की स्थिति	क्षमता विस्तार ।	
उत्पादन क्षमता	परियोजना प्रस्तावक द्वारा मैगनीज अयस्क - 1000 TPA to 9799 TPA & Mine waste- 200 TPA हेतु आवेदन किया गया है और अनुमोदित खनन योजना अनुसार मैगनीज अयस्क - 1000 TPA to 9799 TPA & Mine waste- 200 TPA है ।	
500 मीटर की परिधि में अन्य खदानें	कार्यालय कलेक्टर (खनिज शाखा) जिला बालाघाट के एकल प्रमाण-पत्र क्रमांक 1104 दिनांक 03/10/23 अनुसार 500 मीटर की परिधि में अन्य कोई खदान संचालित/स्वीकृत नहीं है, प्रस्तावित खनिज प्रमुख खनिज है और 05.00 से अधिक होने के कारण बी-1 श्रेणी का है।	
वन मण्डलाधिकारी की अनापत्ति	कार्यालय कलेक्टर (खनिज शाखा) जिला बालाघाट के एकल प्रमाण-पत्र क्रमांक 1104 दिनांक 03/10/23 अनुसार 10 किलोमीटर की परिधि में नेशनल पार्क/अभ्यारण्य/ईको सेंसेटिव जोन जैव विविधता क्षेत्र एवं 250 मीटर में वन क्षेत्र स्थित नहीं है।	
तहसीलदार की	कार्यालय कलेक्टर (खनिज शाखा) जिला बालाघाट के एकल प्रमाण-पत्र	

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अनापत्ति	क्रमांक 1104 दिनांक 03/10/23 अनुसार 500 मीटर की दूरी पर मानव बसाहट/शैक्षणिक संस्था स्थित है, शेष अन्य 500 मीटर की परिधि में नहीं है ।
ग्राम सभा/ ग्राम पंचायत की अनापत्ति	ग्राम पंचायत कटंगझरी जिला बालाघाट के ठहराव प्रस्ताव दिनांक 16/08/23 अनुसार प्रस्तावित स्थल पर खनन कार्य से पंचायत को कोई आपत्ति नहीं है ।
प्रस्तावि खदान की जिला सर्वेक्षण रिपोर्ट में स्थिति	प्रस्तावित खनिज मुख्य खनिज है, अतः जिला सर्वेक्षण रिपोर्ट लागू नहीं है ।

PP has submitted the EIA report on the Parivesh Portal which was submitted by PP on Parivesh Portal hence the same was scheduled in the agenda for EIA presentation.

The EIA was presented by Env. Consultant Shri Umesh Mishra from M/s. Creative Enviro Services , Bhopal. and their representatives on behalf of PP Shri Deven Pradyuman Trivedi, Partner.

PP submitted that this is case of capacity expansion in Maganeseore (Major Mineral) Deposit Mine. The project has been proposed for the Mining of Manganese ore over Govt and private Land by underground through mechanized method. Mining will be confined to the allotted lease area which lies on the Govt and private Land. The mining lease has been granted in favour of M/s J K Trivedi over an area of 5.26 Ha on Khasra No over Khasra No. **48, 49, 50, 51 and 54** at Village – **Katangjhari , Tehsil – Waraseoni , Dist. Balaghat (MP)** situated in Village Katangjhari, Tehsil- Waraseoni &, District Balaghat M.P. Mining will be carried out on the basis of govt. consent order for mining operations for 50 years. A total mineable reserve as per the mining plan is 73120 Tonne & with maximum of production of mineral of **ROM production 9999 TPA (9799 TPA of Manganese ore and 200 TPA of mine waste)** after expansion . The proposed project is an opencast as well as underground and fully mechanized mining project, where mining of Manganese will be done through drilling, Blasting, Jack hammer etc ..

Existing mining is being carried out by 'A' Category (Other than Fully Mechanized) opencast and now proposed underground method of mining using cut and fill method.

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- Lumps of Mn ore are being transported from pit bottom to surface mechanically. Regular use of explosive is being done in the area. From the loading point of view, mineral is transported by trucks/ dumpers to the user industries.
- Loading of mineral into trucks/dumpers is being done by loader and manually also.
- Presently one O/c pits have been reported in lease area, which covers about 2.5 ha area upto depth of 307m MSL

Underground mining

Considering the mineral existence underground, development and future prospect of stoping, the desired development for stoping will be from MSL 298 m to MSL 245 m by developing drives/ X-cuts/ Winze/ Raises.

Mode of entry:

- a) Incline No. 1 from Quarry No. 1
- b) Incline Shaft

Keeping the structural setup offered for the area and extent of mineralization, the lessee has planned one incline shaft as rectangular incline Shaft towards middle part of the area. Then after requirement of second outlet is needed as per proposal therefore lessee has planned second outlet as Incline No. 1 from Quarry No. I which is connected to incline shaft. The ventilation scheme provided by the PP for U/g operation found satisfactory as they are maintaining V_{eq} at the rate of 0.99 against the minimum limit of 0.70. The Humidity in the U/g operation is found 86-92 which is above the minimum limit of 32 % hence found satisfactory. The capacity of fan is also found satisfactory.

Further the illumination provided at U/ g operation is also adequate and meeting the standard as prescribed by DGMS.

The level at U/g and surface will be maintained properly to prevent entering of water in U/g operation. The level of water sump, and at the point of U/g Operation are found satisfactory and PP were asked to maintain during future course of operation.

The roof bolt support system was also discussed and details given found satisfactory the distance maintained by PP as one bolt at 1 sq mtrs. Though frequency of testing is need to increased and PP has asked to make strength test after every one hrs after fixing the bolt at roof.

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The submissions and presentation made by the PP found to be satisfactory and acceptable and the EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of **Prior Environment Clearance for capacity expansion with change in technology opencast mining to under ground mining in Manganese Deposit in an area of 5.26 ha. (1000 TPA to ROM production 9999 TPA (9799 TPA of Manganese ore and 200TPA of mine waste) over Khasra No. 48, 49, 50, 51 and 54 at Village – Katangihari, Tehsil – Waraseoni, Dist. Balaghat (MP) subject to the following special conditions:**

I. Statutory compliance:

- I. This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any Court of Law, Common Cause Conditions as may be applicable.
- II. The project proponent complies with all the statutory requirements and Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- III. The Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board Wildlife, if applicable to the project.
- IV. This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- V. Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish/Consent to Operate from the concerned State Pollution Control Board/Committee.
- VI. The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Department & Regulation, Act, 2015 and rules & regulations made there under PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- VII. The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it if applicable to the Project.

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- VIII. The project proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II(M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- IX. The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- X. A copy of EC letter will be marked to concerned Panchayat/local NGO etc. if any from whom suggestion/representation has been received while processing the proposal.
- XI. State Pollution Control Board/Committee shall be responsible for display of the EC letter at its Regional Office, District Industries Centre and Collector's office/Tehsildar's Office for 30 days.
- XII. The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at-least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State/Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.environmentclearance.nic.in). A copy the advertisement and may be forwarded to the concerned MoEF&CC Regional Office for compliance and record.
- XIII. The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership of mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provision of the Para-11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

- I. The Project Proponent shall monitor critical parameters, relevant for mining operations, of air pollution viz, PM₁₀, PM_{2.5}, NO₂, CO and SO₂ etc. covering the aspects of transportation and use of heavy machinery in the impact zone on quarterly basis. The ambient air quality shall also be monitored at prominent places like office building, Canteen etc. as per the site condition to ascertain the exposure characteristics at specific places.
- II. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc) shall be carried out in areas prone to air pollution wherein high levels of pM₁₀ and PM_{2.5} are

evident such as haul road. Loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/machineries and preventive maintenance. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/Central Pollution Control Board.

III. Water quality monitoring and preservation

- I. In case immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- II. Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority /State Ground Water Department.
- III. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby adjacent to the mine lease and maintain its records. It shall be ensured that no obstruction and/or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (August) post monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office,
- IV. Project Proponent shall plan develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water/State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional office MoEFCC annually.
- V. Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

IV. Noise and Vibration monitoring and preservation

- I. The peak particle velocity at 500 m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- II. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM etc. should be provided with ear plugs/muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/personals/laborers are working without personal protective equipment.

V. Mining plan

- I. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, overburden, interburden and top soil etc. NO change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz, method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining etc) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
- II. The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the provision of the MMDR Act, 1957 and Rules/Guidelines made thereunder.
- III. The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan.
- IV. For underground operations, natural ventilation should be provided (V_{eq} at the rate of 0.85 to 0.95) in all working shifts through vertical shaft and main incline and ventilation survey should be conducted on each quarter and flow of air (intake and return) should be monitored on daily basis as per DGMS norms.
- V. For mining operations standard illumination should be provided as per DGMS norms.

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- VI. For roof support system, as proposal steel roads should be at least 1.50 meter long with minimum 20 mm diameter and the diameter of holes should be less than 32mm. the load bearing capacity of each bolt shall be at least 02 tones of load in one hour, 04 tones of load in 04 hours and 06 tones of load in 08 hours.
- VII. The back of excavated area shall be supported by fully grouted cable bolts of 12 mm at an interval of 2.0 m X 2.0m in a grid pattern with one additional 2.0 m long fully grouted rock bolt in the center of the grid. Diameter of each cable bolt shall be at least 16 mm and cables bolts shall be installed in the back of the stope in such manner that its length in the back at no time shall be less than 4.0 m (for 8.0 m wide stops) and 6.0 m (for 22.0 m wide stops). Each cable bolt shall be capable of bearing at least 25 tones of load.
- VIII. The hanging wall shall be supported by fully rock bolts at least 2.0 m long at maximum interval of 2.0m X 2.0m in grid pattern. The bolts shall be installed perpendicular to the foliation plan of rocks mass with one row of chocks shall be provided at an interval of 3.0 meter all along the hang wall side in the stope as and when required. Similarly, additional rack bolts shall be provided as and when required.

VI. Land Reclamation

- I. The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time.
- II. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum progressive Mine Closure Plan.
- III. Garland drain and bund along with settling tank will be maintained in the boundary side and around dump to prevent siltation of low lying areas and in rush of water into the mine. Apart from Existing Garland drain, further three drain will be provided having size 87X1x1, 132X1x1, and 386 X1x1
 - I. Apart from the existing settling tanks, further one settling tank of size 400mx5mx1.5m with 8 settling pit
 - II. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
- III. The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long.

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IV. The existing and proposed land use plan of the mine is as follows:

Items	Existing	SOM Period	Conceptual Period
Total lease area	5.26ha		
Ultimate depth of mining	307m MSL (opencast pit)	245m MSL (underground working)	210.50m MSL (underground working)
Ultimate pit slope	35 degree	35 degree	35 degree
Area under dumps	0.61ha	0.71ha	0.41ha
Area under pits	2.50ha	2.50ha	2.50ha
Infrastructure & Road	0.02ha	0.02ha	0.02ha
Mineral storage	0.17ha	0.20ha	Nil
Plantation	1.1196ha	1.50ha	1.75ha
Un-worked area	0.8404ha	0.33ha	0.58ha
Total	5.26ha	5.26ha	5.26ha
Water body	0.25ha	0.50ha	0.50ha
Area to be backfilled	0.1544ha	0.27ha	0.27ha
Plantation			
Un-worked area	1.1196ha (1134no.)	1.50ha (3000No.)	1.75ha (3500no.)
Backfilled area	0.1544ha (200no.)	0.1544ha (200No.)	0.27ha (540no.)
Dump area	Nil	Nil	0.41ha (840No.)
Total area for plantation	1.274ha (1334no.)	1.6544ha (3200no.)	2.43ha (4880no.)

VII. Transportation

- I. No Transportation of the minerals shall be allowed in case of roads passing through Forest . In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of

sound and dust along with chances of accidents could be mitigated. Vehicular emission shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.

- II. The Main haulage road within the mine lease should be provided with a water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements.

VIII. Green Belt

- I. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 3546 trees shall be planted in barrier zone, backfilled area and 400 no along the transportation route which is apart from the existing plantation of 1300
- II. The Project Proponent shall develop greenbelt in 7.5 m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The proposed Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of green belt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- III. The Project Proponent shall carryout plantation/afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc by planting the native species in consultation with the State Forest Department/Agriculture Department/Rural development department/Tribal Welfare Department/Gram Panchayat

IX. Public hearing and human health issues

- I. The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly.
- II. The proponent shall also create awareness and educate the nearby community and workers for sanitation, Personal Hygiene. Hand washing, not to defecate in open. Women Health and Hygiene. Hand washing, not to defecate in open. Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.

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- III. The Project Proponent shall ensure that 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.
- IV. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

X. EMP& Corporate Environment Responsibility (CER)

- I. For Environment Management Plan PP has proposed Rs. 31.41 Lakhs as capital and Rs. 17.94 Lakhs as recurring cost for this project.
- II. For this project PP has proposed Rs 10 Lakhs as Corporate Environment Responsibility (CER) for remaining project component.

Commitment towards public hearing Issue in terms of Physical Target		
SN	Issues	Cost in Rs Lakh
1	To provide furniture in High School, Katangjhari, Dist. Balaghat (MP) and other infrastructure facilities in consultation with Principle	Rs 3.00
2	Provision of 500m road from Mine to Pacca road	Rs 5.00
3	Development of Katangjari Chowk with plantation and Benches	Rs 2.00
Total		Rs 10.00 Lacs

- III. The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M. No. 22-65/2017-IA.II(M) dated 01/5/2018 or as proposed by SEAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual and annual report of implementation of the same along with documentary proof viz. photography's. Purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.
- IV. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate count and refrain from diverting the same for other purpose. The Year wise

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expenditure of such funds should be reported to the MoEFCC and its concerned Regional Office.

XI. Miscellaneous

- I. The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- II. The project Proponent shall submit six monthly compliance report on the status of the implementation of the stipulated environmental safeguards to the MoEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.
- III. A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientist and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.