

MINUTES OF THE 80TH MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 14TH, 15TH & 16TH OCTOBER, 2019

The 80th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 14th 15th & 16th October, 2019 under the Chairmanship of Sh. K.P. Bhawsinka in the Conference Room at SEAC, Ranchi.

The following members were present :

1. Sri K.P. Bhawsinka - Chairman
2. Dr. B.K. Tewary - Member
3. Dr. R. N. Singh - Member
4. Sri Y.K. Singh - Member
5. Sri S.P. Srivastava - Member (Present on 15-16.10.19)
6. Dr. V.P. Sinha - Member
7. M.S. Bhagwat - Member
8. Sri U.P. Singh - Member
9. Sri Om Prakash - Member Secretary

Dr. R. V. Singh, Member, SEAC could not attend the meeting due to personal reason.

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 26th & 27th September, 2019. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite informations / clarifications in SEAC earlier meeting, were also considered for appraisal. The Project Proponents have been asked to make technical presentation for the appraisal of their projects before the committee.

The following observations /recommendations were made during the presentation (Project -wise), as under:-

Day 1 : October 14, 2019 [Monday]

Consideration of Proposals

- i. **Common Bio-Medical Waste Treatment, Storage and Disposal Facility (CBMWTSDF) of M/s Nilawars Watergrace Waste Management Pvt. Ltd., Vill : Pochra, Tehsil : Mandu, Dist. : Ramgarh.**

(Proposal No. : SIA/JH/MIS/30851/2018)

The proposed project is Common Bio-Medical Waste Treatment, Storage and Disposal Facility (CBMWTSDF) which is proposed at Plot no. 955, Khata no. 34, Vill. : Pochra, Tehsil – Mandu, Dist. : Ramgarh. The project will scientifically handle the Biomedical Waste generated from Ranchi / Ramgarh District and nearby area of Jharkhand State. Total area of the project will be 1.37 Acre.

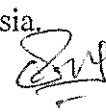
PP & the consultant presented submitted as under –

- i. As per data available, total bed capacity of Ranchi District is 11587 and total bed capacity of Ramgarh is 1248. Total bed capacity of the area is 12835 shows that there is requirement of New CBWTF.
- ii. Company have vast experience in Biomedical Waste Management.
- iii. Company has total 5 Common Biomedical Waste Treatment Facilities in India.
- iv. CBWTF situated in Mumbai is biggest facility in Asia.













- v. Company has one another facility in Uganda also.
- vi. Common Bio Medical Waste Treatment facility provides the comprehensive treatment facility at single place.
- vii. Facility will cover health care unit of 75 km radius area and will cover more then 10000 beds.
- viii. Management of Biomedical waste will be more organized.
- ix. Mixing of BMW with other MSW will be reduced.
- x. Possibility of infection while handling of BMW shall be reduced.
- xi. Overall segregation, collection, transportation, storage, treatment and disposal of BMW will be more efficient and scientifically organized.

Chronology of the project :

Sl. No.	Project status	Date
1.	Online application submitted to MoEF&CC	5 th May, 2016
2.	Project considered by Member Secretary	7 th May, 2016
3.	ToR presentation	24 th June, 2016
4.	ToR granted	12 th July, 2016
5.	Baseline Environmental Studies	Oct-Dec, 2016
6.	Application submission to JSPCB for Public Hearing	3 rd January, 2018
7.	Public Hearing conducted	03 rd October, 2018
8.	Final EIA report submission to SEIAA portal	24 th January, 2019
9.	Proposal returned due to shortcoming by SEIAA	28 th January, 2019
10.	Resubmission of proposal with declaration on online portal	18 th March, 2019
11.	Proposal returned due to shortcoming by SEIAA	2 nd July, 2019
12.	EIA / EMP submitted by PP	05 th September, 2019

Salient features of the project :

Sl. No.	Details	Information
1.	Name of the project	Proposed Common Bio-Medical Waste Treatment, Storage and Disposal Facility (CBMWTSDF)
2.	Name of the Project Proponent	M/s Nilawars Watergrace Waste Management Pvt. Ltd.
3.	Category	7 (da) "Common Biomedical Treatment Facilities"
4.	Location	Latitude : 23° 40' 32.32" N Longitude : 85° 32' 50.51" E Plot no. : 955, Khata no. : 34 Vill. : Pochra, Taluka : Mandu, Dist. : Ramgarh
5.	Capacity	Incineration : 500 kg / hr (Rotatory Kiln) Autoclave : 300 kg / batch Shredder : 250 kg / hr
6.	Area requirement	1.37 Acre
7.	Water requirement	25,000 liters /day (water from deep boring)

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8.	Power requirement	147 KVA from Jharkhand Govt. D.G. Set : 125 KVA – 1
9.	Man power	50 people
10.	Project cost	5.00 Crore
11.	Elevation	355 m from MSL
12.	Highway	NH-33 at 1.60 Km in SW direction
13.	Nearest Railway Station	Ramgarh Cantt. RS at 7.0 Km in SSW direction
14.	Nearest Air Port	Ranchi Airport (Birsra Munda Airport) at 45.80 Km in SW direction
15.	Nearest Town	Ramgarh at 5.80 Km in SW direction
16.	Nearest Water Body/River	Damodar River at 3.0 Km in W direction Chotha nadi at 8.5 Km in NW direction Rauta Nalla at 2.5 km at SW direction Meramgarh Nallah at 2.0 km in E direction
17.	Eco Sensitive Zone (National Park, Wildlife Sanctuary, Biosphere Reserve, Wild Life Corridors etc.)	Not within 10 Km Study area
18.	Historical & Archeological Important Places	Not within 10 km radius from Project boundary

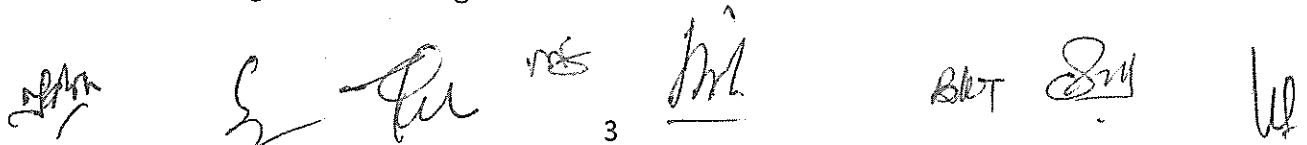
Solid & Hazardous Waste management :

- Excavated top soil shall be stored separately so as to use the same for plantation work.
- Construction waste shall be stored separately and shall be sold to authorized recyclers.
- Transportation of construction material shall be done through covered vehicles.
- All construction waste shall be managed as per Construction & Demolition waste management rule 2016.
- Ash will be the main solid waste from the incinerator.
- Total 15 kg/hr of incineration ash shall be generated.
- Approx. 100-150 kg/month of Sludge will be generated from ETP.
- Around 10-15 kg/day municipal solid waste will be generated .
- Hazardous waste shall be sent to CHWTSDF.
- Electronic waste shall be managed as per E-Waste Management Rule, 2000.

Details of effluent treatment and recycling process :

- Effluent Treatment Plant of total 15 m³/day capacity is proposed for treatment of effluent generated from the unit.
- The treated effluent will be recycled and reused to the maximum extent.
- ETP will be based on ZLD concept and no water will be discharged outside the plant.
- Treatment is based on MBBR Technology.
- Domestic wastewater will be treated in the ETP.
- Proper storm water drainage will be provided during rainy season to avoid mixing of storm water with effluent.

Water pollution mitigation & management :



- Effluent Treatment Plant of total 15 m³/ day capacity is proposed for treatment of effluent generated from the unit.
- The treated effluent will be recycled and reused to the maximum extent.
- ETP will be based on ZLD concept and no water will be discharged outside from the plant.
- Treatment is based on MBBR Technology.
- Domestic wastewater will be disposed of through septic tank followed ETP.
- Proper storm water drainage will be provided during rainy season to avoid mixing of storm water with effluent.
- Rain water harvesting from the roof top catchment area will be done for the proposed CBWTF project.
- Buckets used for the collection of leachate of waste and Vehicle washing area for decontamination of vehicle and buckets.

Greenbelt development plan :

- Green belt will be developed along plot boundary using varieties of plant species.
- Total 33 % of total land shall be used for Green Belt Development.
- Species type will be selected based on soil characteristics, and other related aspects to mitigate pollution effects due to noise, odor, dust etc.
- Local fast growing tree species along with shrubs shall be planted.
- Total 300 Plant species will be planted.
- Plantation will be done around the plant boundary, Along the roads, Inner boundary of Plan, Around ETP etc.

Cost Estimation of EMP :

Sr. No.	Particular	Amount (Rs. in Lakhs)
Capital Cost		
1	Green Belt Development	4.5
2	Solid & Hazardous Waste Management	5.0
3	Water & Waste Water Management	30.5
4	Air Pollution Management including instrumentation	35.5
5	Miscellaneous Cost	4.5
Total		80.0
Recurring Cost		
Sr. No.	Particular	Amount (Rs. in Lakhs)
1	Green Belt Development	2.5
2	Solid & Hazardous Waste Management	4.5
3	Water & Waste Water Management	3.5
4	Air Pollution Management including	3.5

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	instrumentation	
5	Miscellaneous Cost	10.0
Total		26.0

DFO, Wildlife Hazaribagh vide letter no. 1431, dated 25.07.19 certified that the Protected Area is 44,790 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The CO, Mandu (Ramgarh) vide letter no. 524, dated 05.03.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DFO, Ramgarh Division vide letter no. 517, dated 27.02.19 certified that the distance of nearest forest is 15 m from proposed project site.

PP & the consultant presented the project with site details, project features, environmental control system, environmental & CSR issues & related cost for management. As per DFO, Ramgarh Division vide letter no. 524, dated 05.03.19 the site is only 15 m away from the edge of the nearest forest. The PP has shown the realignment of the plant in such a way that the main incinerator will be 155 meters away from the boundary of the nearest forest edge. There is no change in the plot area shown in earlier submitted documents. Regarding realignment of plant area away from forest side, no guidelines is available.

PP has shown with photographs, the peripheral plantations undertaken in the last 3 years period suggesting an awareness of environmental protection.

ToR point wise presentation made. Public Hearing was conducted on 03.10.2018 at the project site, wherein the villagers present have supported the project. The public showed concern for maintenance and proper & safe disposal of CBMW and ETP to be setup. Regarding tree plantation, protection of river and the agriculture land, the PP has satisfactorily provided the commitment and has submitted an undertaking for this. .

Sri Y.K. Singh, Member, SEAC opines that –

The DFO certificate shows that the distance of forest from the plot is 15 meter and RFO certificate mention that there is 100% possibility of misuse of the adjoining forest land by this project. So the PP should look for alternative site and there is no question for relaxing distance criterion in view of this report.

Sri U.P. Singh, Member, SEAC also agrees to the opinion of Sri Y.K. Singh.

On the scrutiny of documents i.e. the Revised guidelines for Common Bio-Medical Waste Treatment Facilities, 2016 of CPCB the selection criteria of location of the CBMWTSDF the residential area, sensitive area, industrial area a buffer zone has been stipulated. The buffer zone has been suggested to represent a separation, between the source of pollution and notified residential area / sensitive area & should have a buffer distance of preferably 500 m & can be reduced also by prescribing additional control measures such as _

- (i) adoption of best available technologies (BAT) by the proponent of CBWTF.
- (ii) Prescribing stringent standards for operation of the CBWTF by the SPCB/PCC.
- (iii) Adoption of zero liquid discharge by the CBWTF and

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- (iv) In case of any complaints from the public, then CBWTF should prove that the facility is not causing any adverse impact on environment and habitation in the vicinity.

The above guidelines do not stipulate any forest area.

The SEIAA has further stipulated vide 77th MOM dated 20.08.2019 –

- d. *The Authority has also considered that the said project had been applied online to Ministry of Environment, Forest and Climate Change, Govt. of India on 05th May, 2016 and MoEF & CC has granted the ToR in favour of above the project on 12th July, 2016 (like first stage clearance) to conduct EIA/EMP report and Public hearing after considering the facts of the application/records submitted by the project proponent. In accordance with ToR issued by MoEF & CC, the project proponent has prepared final EIA/EMP report and public hearing had been conducted by JSPCB which has been upload on SEIAA, Jharkhand Portal on 24th January, 2019.*
- e. *The distance criteria from Forest land for all project has been laid down by SEIAA in its 59th meeting held on 09.08.2018 on the basis of SEAC recommendation which MoEF & CC has issued the ToR to said project on 12th July, 2019 (much earlier). So far as distance from forest land (RF/PF) is concerned, Shri Bhanu Kumar Advocate, Jharkhand High Court had given a legal opinion vide letter dated 03.06.2019 in which he has suggested that present distance criteria from forest land can not be operated with retrospective effect. Hence, the distance criteria from RF & PF will not be applicable in this case with retrospective effect.*

The SEIAA / SEAC Jharkhand has framed a guidelines for granting EC to mining & industrial project near forest land, for which 250 m minimum distance was specified for new projects (vide SEIAA 59th MOM dated 09.08.2018).

The SEAC feels that the legal opinion of the Advocate is not proper, since grant of ToR by MoEF&CC on 12.07.2016 does not compel the SEIAA / SEAC to grant EC, that to on the basis of Rules / guidelines prevalent on that very day (i.e. 12.07.2016). EC may be recommended by SEAC or granted by SEIAA on the basis of presently prevalent Rules / Notification / Guidelines.

However, if the SEIAA feels otherwise, it can take decision. Accordingly, the file (**Common Bio-Medical Waste Treatment, Storage and Disposal Facility (CBMWTSDF) of M/s Nilawars Watergrace Waste Management Pvt. Ltd., Vill : Pochra, Tehsil : Mandu, Dist. : Ramgarh**) is being forwarded to SEIAA for needful.

- ii. **Construction of 500 bedded Government Hospital of Jharkhand State Building Construction Corporation Ltd. at Plot no. 117 to 128, Vill. : Kolghati 1, Anchal : Sadar, Dist. : Hazaribagh. (Proposal No. : SIA/JH/NCP/74878/2018)**

DFO, Hazaribagh vide letter no. 1469, dated 28.03.19 certified that the distance of forest is 1500 m from proposed project site.

DFO, Wildlife, Hazaribagh vide letter no. 273, dated 06.02.2019 certified that Hazariabgh Wildlife Sanctuary and Eco Sensitive Zone is within 10 km from proposed project site and National Park /

Bio-Diversity not within 10 km. Since the distance of site is less than 10 km from the Wildlife Sanctuary. PP has submitted an application the National Board for Wild Life (Proposal No. : FP / JH / Others/ 4278 / 2019) and submitted the acknowledgment for the receipt of proposal.

The CO, Sadar, Hazaribagh vide letter no. 848, dated 01.06.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in the Khatiyani.

The News Paper (Hindustan Times) dated 21.08.2019 reported that the Hazaribagh Medical College & Hospital is operating. As such SEAC entrusted 02 members to visit the site of the project and submit their report for further action as to whether the Hospital building has been constructed or not without getting prior EC. Member Secretary, SEAC is being requested to inform the concerned PP regarding site visit, date etc.

The proposal was presented in SEAC on 29-30.08.19 in which requisite documents were sought as under -

- i. *Rain Water Harvesting potentiality study.*
- ii. *Zero discharge potentiality.*
- iii. *Bio-medical segregation treatment & disposal plan alongwith cost & time frame.*
- iv. *Hydrological report – Radius of influence & recharge potential.*
- v. *Continuous monitoring study of ground water.*
- vi. *Volatile organic carbon & order control plan – Time, cost & schedule.*
- vii. *Eco Sensitive Zone – Status of the project.*

The above mentioned requisite documents have been submitted by the PP.

PP and the consultant presented the replies to the queries raised in the site visit report. The raised issues are not properly replied & needs further relook.

The Form-I is to be submitted properly as per the ownership of the project.

The SEAC has follow observation :-

- i. Proposal submitted is comprising of combined drawings of Medical College Complex, Hospital Building & other buildings. It is not clear as to whether the project area of 25 acres (101171.45 sqm) where the Hospital building & other buildings for which EC proposal has been submitted is situated on said plot. A separate drawing showing plot required for project area of Hospital Building & other buildings and related infrastructures, for which EC has been sought over the project area with co-ordinates and Contours may be submitted.
- ii. It is clear from Drg no. ECCF/SPCL/HMCP/TS/17/2610 that in the proposed site for Hospital building ^{two} waterbodies are existing. On field visit, it was found that ^{one} of the waterbody has been partially filled up to construct Hospital related structures without taking prior EC. This amounts to violation of provisions of E(P) Act / EIA notification, 2006. The PP may clarify their position.
- iii. Similarly, the coordinates given is Table - 1 page no. 62 of the EIA report, when plotted on Google Earth Image shows already constructed structures in the project area. This also amounts to violation of provisions under E(P) Act and EIA notification, 2006.
- iv. The two roads of width 9 m and 7.5 m (existing & proposed) running from west to east inside the plot & the various infrastructures being constructed/proposed to be constructed

along these two roads like Storm water drains, Sewer line, Rain water harvesting pits, domestic water supply lines etc, are serving the basic necessity of Hospital Building proper, ETP & STP etc for which the PP has submitted the proposal and these constructed structures cannot be treated in isolation.

- v. Construction of these roads, the above stated infrastructures and also the embankment required for roads & site filling upto 102 m level has resulted/resulting in encroachment of about 40% of pond area from approximately 8795 sqm to 5372 sqm (as elaborated in point no. 4^v below), this amounts to construction of infrastructure required for Hospital Building without taking prior EC, which amounts to violation of provisions of E(P) Act / EIA notification, 2006. It requires clarification from PP.
- vi. The dimension of original existing pond in the western half of the plot has been mentioned as 124.44mX76.70m/64.65m i.e. having surface area (plan area) of appx. 124.44m X 70.675m = 8795 sqm in drawing sheet 01 submitted by PP and the same drawing indicates existing pond, as per current survey to have a size of 70.04 m X 76.70 m = 5372 sqm i.e. a reduction of $(1 - 5372/8795) \times 100 = 39\%$ approx. of surface area.
- vii. The original contour plan submitted by the PP (Drg no. ECCF/SPCL/HMCP/TS/17/2610 of 2017) indicates existence of Pond/water body of irregular shape in the eastern half of the plot. This drawing is basically a contour plan of site which also is not showing continuity of contours through pond & water bodies as per established norms.
- viii. The Hospital building, as per layout drawing submitted by the PP has been proposed to be located over this water body covering about 65% of water body surface area (as could be assessed visually). During site visit, the above stated water body as per drawing no. 2610 has been observed to be in dry condition with growth of grass & other vegetation on it. The PP has now mentioned this water body as "LOW LYING AREA" in the revised proposal. as it is dry now. The PP has carried out contour survey after SEAC's site visit and has submitted revised contour plan including this area as well, from which it appears that 94.5 m is the lowest level in it, requiring about 7.5 m earth filling for achieving the finished terrace level.
- ix. To make use of this level gainfully in construction of structures, the PP has proposed single basement construction in this area partly which also will not be able to cover up the entire depth.
- x. The scheme drawing showing RCC detail of Retaining wall of 8 m height to retain the terrace filling up to FTL appears to be non-workable. It is seen that the foundation of the said wall is extending over 2 m width beyond the proposed area line of the Hospital Complex in some other's property, which may will not be permitted. Besides, because of huge level difference obstruction posed in natural drainage of area by proposed construction of Hospital building complex and the proposed wall etc, the earth cover provided in the foundation (footing) outside the project area will be subjected to erosion during rains without appropriate protection measures. It may be relevant to mention that the ground beyond the boundary wall towards the eastern side is having slope towards a natural stream / nallah therefore is having lower contours towards the eastern side away from the boundary wall. Though which holes has been proposed water drained thus from these are being made to have free fall over the earth cover of foundation of wall, which again will contribute to erosion.

- xi. Computational details of earth work in site levelling has not been furnished although quantity of earth filling in site levelling has been mentioned to be over 1.25 Lakhs cubic meter. BOQ items has also been provided. Availability of uninterrupted supply of this huge quantity of borrowed earth from the identified borrow area (which is an important component of project) has not been addressed in the PP's compliance.
- xii. The various inadequacies and mistakes noted in the proposal which were pointed out in SEAC's communication has been complied by submission of additional drawings & documents, incorporation of clauses & rectification of errors in the documents etc. Most of the details have been furnished but still having short coming and are not fully in order which has been discussed and apprised to PP during the meeting. Various Annexure mentioned in the proposal is missing.
- xiii. The committee still feels that the mortuary needs to be relocated in isolated area.
- xiv. The letter addressed to Hazaribagh Municipal Corporation dt. 22.03.18 for municipal approval of 500 bedded Hospital & its buildings & related infrastructures requiring EC do not mention either total plot area of 101171.45 sqm (25 Areas) or built up area of Hospital and other building as stated in project proposal. It is still not clear if the details contained in proposal and the application to Municipal corporation are in consonance with each other. The Committee would like to have relevant documentary evidence that the two are matching with each other. This is most basic requirement .

Chairman SEAC opines that –

On the basis of inspection report submitted by SEAC members visiting proposed hospital site & report submitted by them, it is not clear whether the

- (i) Two projects are part of the same ^{mentioned} project. ^{Land area of 25 blocks}
- (ii) Whether academic ^{a block} ~~store~~ has been constructed. ^{or not}
- (iii) Water bodies was seen at the proposed plot which was reported to be of changed sizes. ^{seen}

It is therefore, felt that to consider the proposed in expeditious manner following clarifications are designed from PP end as land ^{to} are, with co-ordinates of project ^{areas} indicating individual and joint areas ^{of} including water bodies co-ordinates need ^{to} be provided. ^{for proper performance}

On submission of the proper replies & documents, the committee will examine further.

- iii. **Common Effluent Treatment Plant (CETP) of M/s Agronomics Food Park Pvt. Ltd at Vill.-Bingaon, Karra, Khunti.**

(Proposal No. : SIA/JH/MIS/25997/2018)

On repeated request letter from SEAC viz. letter no. 121, dated 01.08.2018, letter no. 191, dated 20.12.2018 and letter no. 143, dated 02.07.2019, the PP has neither submit requisite documents / certificates for appraisal nor turned up in the meeting for more than last 6 months. Finally, the SEAC has reminded, vide letter no. ¹⁴³ ^{02.07.19} dated to submit the requisite documents in the next meeting otherwise necessary ^{action may be} taken for this project.

Accordingly the project is recommended for **delisting**, as per provision of MoEF OM no. J-11013/5/2009-IA-II(Part) dated 30.10.2012.

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iv. **Bagaiya Stone Deposit of M/s MVSW Stone Works (OPC) Pvt. Ltd., Vill : Bagaiya, P.S : Chattarpur, Dist. : Palamau (2.40 Ha).**

(Proposal No. : SIA/JH/MIN/39679/2019)

This is a Stone Mining Project with an area of 2.40 Ha [Khata no. 39, Plot No.- 738 (P)]. The latitude and longitude of the project site is 24° 22' 34.97" N to 24° 22' 41.54" N and 84° 13' 33.61" E to 84° 13' 41.87" E. The nearest railway station is Japla at a distance of 27.23 km and nearest airport is Ranchi at a distance of 162.23 km . Total water requirement is 16 KLD (Drilling & Dust Suppression : 11 KLPD, Plantation : 4 KLPD, Drinking / Domestic : 1.0 KLPD). Source of water is nearby villages.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	5,38,009 tonne
Probable Mineable Reserve	:	1,10,810 tonne

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

1 st Year	:	1,29,766 tonne
2 nd Year	:	1,29,724 tonne
3 rd Year	:	1,29,668 tonne
4 th Year	:	1,29,732 tonne
5 th Year	:	1,29,920 tonne

The daily production as per Form-I is 433 tonne.

The indicated project cost is Rs 60.00 Lakh and a provision of Rs 3.75 Lakh has been indicated for Environment management.

Dy. Director, Palamau Tiger Proeject North Division vide letter no. 1991, dated 29.08.19 certified that the National Park, Bio-Diversity, Sanctuary & ESZ are not within 10 km from proposed project site.

DFO, Medininagar Division vide letter no. 3375, dated 12.07.18 certified that the distance of notified forest is 425 m from proposed project site.

The CO, Chhattarpur (Palamau) vide letter no. 478, dated 18.07.18 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyen & Register II.

DMO, Palamau vide memo no. 1070, dated 19.07.19 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Palamau District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Bagaiya Stone Deposit of M/s MVSW Stone Works (OPC) Pvt. Ltd., Vill : Bagaiya, P.S : Chattarpur, Dist. : Palamau (2.40 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

v. **Manjhladih Stone Mine of M/s Pragati Infra, Vill. : Manjhladih, P.O. : Saharpur, P.S. Shikaripara, Dist. : Dumka (1.40 Ha).**

(Proposal No. : SIA/JH/MIN/43173/2019)

This is a Stone Mining Project with an area of 1.40 Ha [Khata no. 22, 11, Plot No.- 537 (P), 538 (P), 539 (P)]. The latitude and longitude of the project site is 24° 11' 50.7" N to 24° 11' 46.6" N and 87° 33' 55.6" E to 87° 33' 51.5" E. The nearest railway station is Pinargaria at a distance of 8 km and nearest airport is Ranchi at a distance of 250 km . Total water requirement is 5.062 KLD (Dust Suppression : 3.77 KLD, Afforestation / Green belt : 0.617 KLD, Drinking / Domestic : 0.675 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Manjhladih tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 7,12,514.9 tonne

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

1 st Year	:	95,526 tonne
2 nd Year	:	87,696 tonne
3 rd Year	:	79,866 tonne
4 th Year	:	72,036 tonne
5 th Year	:	64,206 tonne

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

The indicated project cost is Rs 30.00 Lakh, a provision of Rs 5.46 Lakh has been indicated for Environment management and CER is Rs. 1.77 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1634, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 89010 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter no. 1559, dated 15.05.17 certified that the distance of notified forest is 1300 m from proposed project site.

DMO, Dumka vide memo no. 976, dated 24.08.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Dumka District.

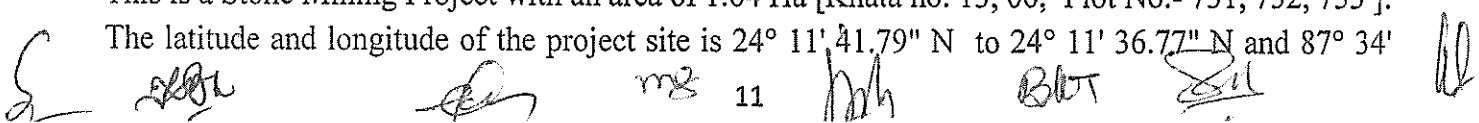
The CO, Shikaripara vide letter no. 998, dated 16.10.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Manjhladih Stone Mine of M/s Pragati Infra, Vill. : Manjhladih, P.O. : Saharpur, P.S. Shikaripara, Dist. : Dumka (1.40 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

vi. **Manjhladih Stone Mine of Sri Nilu Mariya & Partner, Vill. : Manjhladih, P.S. : Shikaripara, Dist. : Dumka (1.64 Ha).**

(Proposal No. : SIA/JH/MIN/43245/2019)

This is a Stone Mining Project with an area of 1.64 Ha [Khata no. 13, 06, Plot No.- 731, 732, 733]. The latitude and longitude of the project site is 24° 11' 41.79" N to 24° 11' 36.77" N and 87° 34'

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39.15" E to 87° 34' 33.11" E. The nearest railway station is Pinargaria at a distance of 6.87 km and nearest airport is Ranchi at a distance of 248 km . Total water requirement is 4.68 KLD (Dust Suppression : 3.29 KLD, Afforestation / Green belt : 0.53 KLD, Drinking / Domestic : 0.86 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Manjhladih tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 10,20,986 tonne

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

1 st Year	:	93,441 tonne
2 nd Year	:	83,284 tonne
3 rd Year	:	73,710 tonne
4 th Year	:	1,21,030.2 tonne
5 th Year	:	89,731.8 tonne

The daily production as per Form-I is 403.434 tonne.

The indicated project cost is Rs 31.05 Lakh, a provision of Rs 2.24 Lakh has been indicated for Environment management and CER is Rs. 2.24 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1632, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 88910 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter no. 1478, dated 26.04.19 certified that the distance of notified forest is 788 m from proposed project site.

DMO, Dumka vide memo no. 560, dated 17.05.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Dumka District.

The CO, Shikaripara vide letter no. 414, dated 26.04.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II. However, CO has just signed on the application of PP which is not correct.

The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

Accordingly, SEAC conditionally recommends the proposal for EC to SEIAA subject to submission of certificate from CO regarding class of land. An undertaking in this regard has been submitted by the proponent.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Manjhladih Stone Mine of Sri Nilu Mariya & Partner, Vill. : Manjhladih, P.S. : Shikaripara, Dist. : Dumka (1.64 Ha)** be conditionally recommended for

consideration of SEIAA for grant of EC subject to submission of proper **CO certificate** directly to SEIAA. The various conditions for grant of EC is enclosed as **Annexure - I**.

- vii. **Jhaljamira Stone Mine Project of M/s A. S Enterprises, Vill. : Jhaljamira, Taluka :Senha, Dist. : Lohardaga (1.65 Ha).**

(Proposal No. : SIA/JH/MIN/38352/2019)

This is a Stone Mining Project with an area of 1.65 Ha [Khata no. 267, Plot No.- 2539 (P)]. The latitude and longitude of the project site is 23° 21' 24.34" N to 23° 21' 27.40" N and 84° 42' 21.04" E to 84° 42' 32.59" E. The nearest railway station is Lohardaga at a distance of 10.0 km and nearest airport is Ranchi at a distance of 63.5 km . Total water requirement is 5.5 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	4,44,263.40 tonne
Probable Mineable Reserve	:	89,964 tonne

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

1 st Year	:	1,33,556.85 tonne
2 nd Year	:	1,33,556.85 tonne
3 rd Year	:	1,33,556.85 tonne
4 th Year	:	1,33,556.85 tonne

The daily production as per Form-I is 445.18 tonne.

The indicated project cost is Rs 32.00 Lakh and a provision of Rs 6.10 Lakh has been indicated for Environment management.

DFO, Wildlife Ranchi vide memo no. 1017, dated 16.09.19 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

The DFO, Lohardaga Division vide letter dated 11.06.19 certified that the distance of notified forest is 750 m from proposed project site.

The CO, Senha (Lohardaga) vide letter no. 379, dated 11.06.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Lohardaga vide memo no. 440, dated 15.06.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Lohardaga District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Jhaljamira Stone Mine Project of M/s A. S Enterprises, Vill. : Jhaljamira, Taluka : Senha, Dist. : Lohardaga (1.65 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

- viii. **Hathidari Stone Deposit of M/s A.S.R. Stone Works, Vill. : Hathidari, Taluka :Rajmahal, Dist. : Sahibganj (4.45 Ha).**

(Proposal No. : SIA/JH/MIN/42307/2019)

This is a Stone Mining Project with an area of 4.45 Ha [Plot No.- 15, 16 (P), 17, 18 (P), 19 (P), 20 (P), 21 (P), 22 (P), 25 (P)]. The latitude and longitude of the project site is 25° 13' 15.65" N to 25° 13' 21.49" N and 87° 34' 46.50" E to 87° 35' 01.56" E. The nearest railway station is Karamtola at a distance of 4.5 km and nearest airport is Malda at a distance of 60 km . Total water requirement is 7.15 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	21,20,721.37 tonne
Probable Mineable Reserve	:	5,43,324.16 tonne

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

1 st Year	:	2,66,237.87 tonne
2 nd Year	:	2,66,624.19 tonne
3 rd Year	:	2,66,515.70 tonne
4 th Year	:	2,67,060.78 tonne
5 th Year	:	2,66,931.13 tonne

The daily production as per Form-I is 890.20 tonne.

The indicated project cost is Rs 40.00 Lakh and a provision of Rs 5.00 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1541, dated 03.08.19 certified that the Udhwa Lake Bird Sanctuary is 31740 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Sahibganj Division vide memo no. 182, dated 27.01.18 certified that the distance of notified forest is 370 m from proposed project site.

The CO, Mandro vide memo no. 209, dated 27.02.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Sahibganj vide memo no. 358, dated 05.02.18 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Sahibganj District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Hathidari Stone Deposit of M/s A.S.R. Stone Works, Vill. : Hathidari, Taluka :Rajmahal, Dist. : Sahibganj (4.45 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

ix. **Konbir Brick Earth Mining of M/s Shree Vrindaban Construction, Vill. : Konbir, P.S :Basia, Dist. : Gumla (3.24 Ha).**

(Proposal No. : SIA/JH/MIN/31535/2019)

This is a Brick Earth Mining with an area of 3.24 Ha [Khata no. : 15, Plot No.- 1663 (P)]. The latitude and longitude of the project site is 22° 50' 43.02" N to 22° 50' 50.03" N and 84° 48' 33.23" E to 84° 48' 43.73" E. The nearest railway station is Pokla at a distance of 16 km and the nearest airport is Ranchi at a distance of 100 km. The mining operation will need 2.50KLD (Potable water 1.00 KLD and Brick Moulding 1.50 KLD) of water which will be drawn from open well located

close to lease area. It is proposed to mine 18.75 m³ of clay per day or 468.75 m³ / month or 3750 m³/year. Mine will operate for 8 months in a year & bricks will be moulded & dried on mine site and transported to brick kiln proposed within the lease area.

It is estimated that 7500 bricks /day will be made, which works out to 15.00 bricks per annum.

The indicated project cost is Rs12.25 Lakh and a provision of Rs 3.70 Lakh has been indicated for Environment management. Budget for CSR is Rs. 15.00 Lakh

DFO, Wildlife Ranchi vide memo no. 930, dated 26.08.19 certified that the proposed project is located at 6.66 km from Sanctuary boundary and 1.34 km outside the ESZ.

The DFO, Gumla Division vide letter no. 2801, dated 06.10.2018 certified that the distance of notified forest is 300 m from proposed project site.

DMO, Gumla vide memo no. 179, dated 04.02.19 certified that any other lease is not within 500 m radius from proposed project site.

The CO, Basia vide letter no. 490, dated -06.11.18 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyon & Register -II.

Besides, the DSR of the district has not incorporated the said brick earth mining site.

The DMO, Gumla has approved the mining plan of the brick earth mining. The PP has requested the DMO, Gumla to include the project in DSR of Gumla District. Copy of the request letter to DMO, Gumla by the PP has been submitted.

The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

SEAC recommends the proposal for EC to SEIAA subject to submission of certificate from DMO / Dy. Director, Geology & Mines Deptt., Govt. of Jharkhand regarding inclusion in the DSR. An undertaking in this regard has been submitted by the proponent.

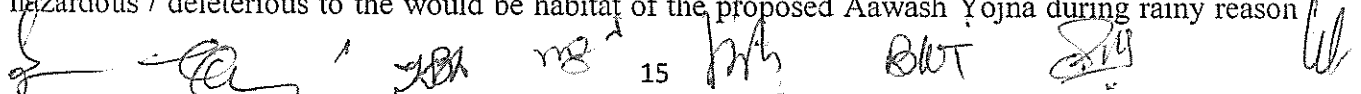
Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Konbir Brick Earth Mining of M/s Shree Vrindaban Construction, Vill. : Konbir, P.S : Basia, Dist. : Gumla (3.24 Ha)** be recommended for **conditionally** (project site not mention^{ed} in DSR) subject to submission of DSR from competent authority directly to SEIAA, consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II**.

- x. **Affordable Group Housing Project (under PMAY) of M/s National Projects Construction Corporation Ltd., Vill. : Bagunhatu, Dist. :Jamshedpur.**

(Proposal No. : SIA/JH/MIS/108338/2019)

PP & the consultant presented the project with site details.

It was found that the documents viz. Form-I & Form-IA etc. are totally erroneous. Besides, the proposed site is on the bank of Subarnrekha river (just only 15 m from the river). So, it would be hazardous / deleterious to the would be habitat of the proposed Aawash Yojna during rainy reason

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if it is situated in the high flood zone. The SEAC feels that selection of site for Aawash Yojna is not appropriate. Hence, it requires reconsideration.

PP was asked to submit additional requisite documents :

- i. Basis of selection of site.
- ii. Whether alternate site has been studied.
- iii. This site is within 15 m of Subarnarekha river as such apparently not fit for the project. PP should explain on the basis of flood zonation map of the area and the merit of the site for housing project.
- iv. The documents and maps have a number of errors like – (i) Damodar River in map (ii) Mahila College Jharia, Dhanbad. These are lapses on the part of the EIA consultant. This needs thorough correction.
- v. Proper appointment of EIA consultant related documents by PP be submitted.
- vi. Form-I and all documents to be signed by the owner of the building i.e. Urban Development Deptt. for post EC compliance commitment.
- vii. An affidavit from PP that no work has been undertaken till date & undertaking that without EC work will not be started.
- viii. Submit approval of Building plan document.
- ix. Submit Geotechnical report of the site
- x. Water use details of the site.

Once the requisite documents are submitted to SEAC, it will examine the case.

Day 2 & 3 : October 15 & 16, 2019 [Tuesday & Wednesday]

Consideration of Proposals

- i. Parasi Gold Deposit and Beneficiation Plant of M/s Rungta Mines Ltd, Vill. : Parasi, Kothadih, Kutachauli, Tehsil : Tamar, Dist. : Ranchi (75.273 Ha).

(Proposal No. SIA/JH/MIN/42166/ 2018).

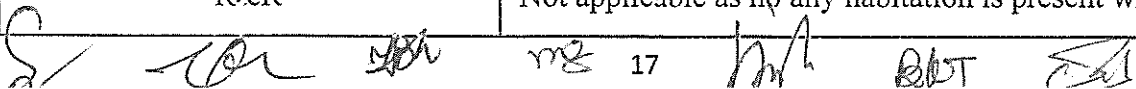
The proposal was considered by the committee in its 68th meeting held on 14th to 15th March, 2019 and recommended for ToR. ToR was granted by SEIAA vide letter no. EC/SEIAA/2018-19/2095/2018/153, dated 05.04.2019. Public Hearing of the project was conducted on 22.08.2019. The final EIA / EMP was submitted by the PP to SEIAA on 12.09.2019 and forwarded to SEAC on 30.09.2019.

The mine lease is located in Parasi, Kothadih, Kutachauli, Tehsil : Tamar, Dist. : Ranchi. As per Form I they have mentioned a Peak rated capacity of Ore 60006.18 TPA, Beneficiation Plant 200 TPD.

Salient features of the project :

Project name	Parasi Gold Deposit and Beneficiation Plant
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Total ML Area	75.273 Ha (186 acres)
Coordinates of the mine	22°59'14.013" to 22°59'43.902" N 85°42'47.251" to 85°43'49.223" E
Elevation of site	Lowest : 240 m RL, Highest : 271.89 mRL
Mineral	Gold ore
Reserves & Resources	111 category- 4.59 million tonnes @1.01 gm/t Au 222 category- 5.09 million tonnes @1.09 gm/t Au 221 category- 0.26 million tonnes @ 1.01 gm/t Au Total – 9.94 million tonnes @ 1.051 gm/t Au
Rated capacity	60,006.18 TPA
Beneficiation plant	200 TPD
Gold recoverable	188 gm/day
Life of the mine	50 years
Overall Stripping ratio	1: 4.44 (Tonne of ore/m ³ of O.B.)
Overburden	12.8 Mcum & 86,277 Cum intercalated waste
Method of Mining	Fully Mechanized Open-cast
Drilling	By Wagon/ percussion Drill Machine of 150 mm
Blasting	Using Class II explosives
Working days	300 per annum
Manpower	109
Water requirement	461 KLD (drinking - 5 KLD, industrial- 456 KLD)
Source of water	(i) Mine seepage + Karkari nadi /or Kanchi Nadi (ii) Bore wells for drinking purpose (iii) Recycled water from tailing pond
Intersection with water table	About 1.07 m bgl during post monsoon About 5.26 m bgl during pre monsoon
Power requirement	2 MW , Sourced from JSEB
Expected cost of the project	Rs. 13.63 cr.
R.&R	Not applicable as no any habitation is present within the


 mg 17 hml BBT

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	ML area. 66 land looser have been identified who will be compensated.
Present Land Use	Forest Land - 11.959 ha (4.407 Ha notified P.F. + 7.552 Ha Jangal-Jhadi) Road - 0.240 Ha Wasteland - 12.958 ha Agricultural Land - 45.872 ha Others - 4.244 ha . (All plots certified by DFO Khunti Department of Forest, Environment and Climate Change, Govt. of Jharkhand vide letter no. 292 (ii) dated 06.06.2018)
Features within 500 m of project	Habitation - Villages Kothadih, Parasi & Kutachauli Dam/ Reservoir - Rainwater checkdam School- Kutachauli School River- Nil Hospital/ PHC - Nil Monument – Nil (Certified by CO Tamar vide letter no 95(ii) dated 05.02.2019)
WLS/ NP / ESZ/ Biodiversity area in 10 km radius	Nil (Certified by Divisional Forest Officer(DFO), Khunti Forest Division, Department of Forest, Environment and Climate Change, Govt. of Jharkhand vide letter no. 1669 dated 15.06.2019)

The salient features of the tailing pond and sump is as follow :

Tailing pond	
Area of tailing pond	1 ha
Dimensions	159 m x 64 m
Operational technology	The slurry tailing pond will be divided into two equal chambers of 79.5 m x 64 m. The slurry tailing will be drained / pumped into the 1 st chamber of the tailing pond, where after settling down of the solids, the water will be decanted and drained into the tail water sump and settled solid cake will be hauled to the 2 nd chamber for drying. The dried tailing will then be shifted to the tailing dump.
Location	North west corner of central block
Elevation	248 m (NW corner) – 253 m (SE corner)
Depth	5.5 m below ground level
Freeboard	0.5 m
Type of embankment	No embankment as pond will be dug below ground level. The side slopes will be linked with impervious lining and protected

	by pitching.
Type of lining	Impervious, concrete with overlain clay or hybrid with HDPE.
Capacity	<ul style="list-style-type: none"> • 1 year, without shifting dried tailing to the tailing • Dump • Life long, with simultaneous shifting of dried tailing to the tailing dump.
Wet tailing generation	600.7 TPD
Water recovery & recycling	200 TPD (or 200 KLD)
Water loss with material	Approx. 30 KLD
Water loss in evaporation	Approx. 170 KLD
Tailing by dry weight	220.7
Sump	
Area of tailing pond	0.31 ha
Dimensions	95.8 m x 35.5 m
Elevation	249-253 m
Depth	5 m

The Director of Mines, Deptt. of Industries, Mines & Geology, Govt. of Jharkhand has issued Letter of Intent for the grant of mining lease on 03.01.2018 vide letter no. Kha.Ni (Ranchi/Gold)-18/2016/15M and subsequent clarification vide letter no. 1770, dated 09.07.18 & letter no. Kha.Ni (Ranchi/Gold)-18/2016/2221M/Ranchi, dated 27.08.2018 for 75.273 ha and 50 years.

M/s Rungta Mines Ltd has obtained approval of Mining Plan along with Progressive Mine Closure Plan in respect of Parasi Gold deposit over an area of 75.273 ha vide approval letter no. RAN/RNC/Gold/MP-14/2018-19, dated 28.11.2018.

The CO, Tamar, Ranchi vide letter no. 95 (ii), dated - 05.02.19 has mentioned that the khata no. 247 & 280, plot no. 1037, 830, 835, 836, 838, 840, 843, 847 & 1023 of proposed site are recorded as Jangal Jhari & Jangal Paras in R.S Khatiyani. Besides, CO has certified that human habitation, Kuta Chawali School and Seasonal check dam lie within 500 m from the said project site. Moreover, size, population and proximity of habitation likely to be affected, proximity of school & no. of students likely to be affected, as well as location (whether in upstream & downstream), size & submergence area etc.

The DFO, Khunti vide letter no. 2502, dated 14.12.2018 has mentioned that out of the proposed area 10.89 acre and 18.66 acre respectively are notified forest & Jangal Jhari land. However, the said letter has not enlisted all the proposed plot nos. DFO, Khunti vide letter no. 334, dated 01.02.19 has certified some of the plots of khata no. 280 & 247 are 0 (zero) m from notified forest and said plots are not within 10 km of National Park / Sanctuary / Biodiversity and ESZ.

It is further submitted that total mining lease area is 75.273 ha out of which 11.959 ha is forest land including the above mentioned Jangal-Jhari (i.e 4.407 ha notified forest + 7.552 ha Jangal-Jhari forest land). Application for Forest Clearance over an area of 11.959 ha has been submitted

vide online proposal no. FP/JH/MIN/37423/2018 seeking prior approval of Central Govt. under Forest (Conservation) Act, 1980.

Total water requirement for mining and beneficiation plant and its allied activities is estimated as 461 KLD which includes 456 KLD industrial water and 5 KLD potable water. Potable water shall be sourced from bore well and industrial / other purpose will be met from mine seepage and Karkari nadi (3.2 km) and / or Kanchi Nadi (17.5 km). Water will be sourced depending upon the permission granted by the competent authorities of the State Govt.

2 MW power will be required for beneficiation as well as allied activities and will be sourced from Jharkhand State Electricity Board. Stand by DG set will also be provided in case of emergency. Diesel will be used in DG set, trucks, dumpers, mining machinery, etc.

Identification of Gold in prospect area and exploration Parasi was carried out by GSI and subsequently by Mineral Exploration Corporation Ltd (MECL). It is estimated that a reserve of 9.94 million tonnes of ore at 1.051 gram / tonnes Au is available. Exploration in Parasi Gold Deposit is almost complete and is of G-1 level upto 155 m RL. It will be an opencast mechanized mining. Mineralization is open down the dip direction. Shear hosted hydrothermal gold deposits are generally deep seated so there is a possibility of extending the deposit below 155 m RL.

The beneficiation & processing of the ROM is planned based on the Beneficiation Studies carried out by Regional ore dressing laboratory, Bangalore of Indian Bureau of Mines (IBM) on Gold ore samples from Parasi Gold Deposit.

PP & the consultant presented the point wise replies of the ToR conditions. This includes issues in the mining technology to be adopted, process of beneficiation and Gold recovery which is 0.188 gm / day from 200 tons gold ROM. Further the tailing management, cyanidation, arsenite & FES containment, spill over from the tailing pond & on site & off site emergency plan was thoroughly discussed. Regarding the hazon & hazop study PP explain that this study has been undertaken by Chemical Engg. Deptt. of IIT, Kharagpur & the concerned expert explained the details in the meeting. The risk analysis, life cycle studies, health & safety issues, leaching behavior & management plan, status of base line environmental parameters and modelling studies, vegetation and wildlife management plan and status of FC were discussed. The issues of public herein, financial estimates of CER and environmental management were explained.

In this regard an apprehension of slope stability of dump was raised, in which PP replied that a detail theoretical studies related to mines safety, slope stability and blasting technique have been prepared by Deptt. of Mining Engg. IIT, Kharagpur. Wherein analysis of data report and proposed safe guard measures have been provided.

SEAC, Chairman further opines that observations made on basis of presentation for ToR compliance may be considered further while granting EC.

1. PP shall follow International Gold Code provisions in implementation of various activities related to mining and Gold beneficiation.
2. PP shall follow OSHA/EPA or any other best International practices ^{and}standards for gold beneficiation and mining proposal submitted to combat toxic chemicals like cyanide other toxic chemical uses and shall control the beneficiation process to avoid liberation of further harmful gases.
3. Extensive tree plantation equivalent to at least 10 times of existing plants in mining area shall be undertaken to generate oxygen, dust suppression and wind speed breaking purposes

with appropriate species, geometry, canopy cover and density in an around mined out area be undertaken.

4. PP may stagger their blasting operation suitable to protect trees as also to plant new trees in mining area where feasible.
5. To meet serious health emergencies, a full fledged first aid centre equipped with sufficient numbers of oxygen cylinders to meet operational emergencies arising from use of toxic chemicals used in process.
6. PP shall establish linkages with all major entities in area capable of providing emergency supports.
7. All visitors and working personal shall be provided with personal protection devices, PP and face mask and all sort of personal safety needs as per the norms of the safety directorate and other concerned safety departments.
8. PP shall engage qualified doctor(s) and establish first aid centre equipped with adequate oxygen cylinders working on 24X7 accessibility basis to meet emergency eventualities.
9. PP shall adhere to requirements of specific ToR conditions and compliance thereof.
10. The project is subject to due diligence and all legal and statutory compliance any breach of conditions and non-conformance of which may lead to cancelation of granted EC.

Based on the presentation made and information provided, the Committee decided that the proposal for **Parasi Gold Deposit and Beneficiation Plant of M/s Rungta Mines Ltd, Vill. : Parasi, Kothadih, Kutachauli, Tehsil : Tamar, Dist. : Ranchi (75.273 Ha)** be recommended for consideration of SEIAA for grant of EC subject to submission of **Stage-I clearance** under Forest (Conservation) Act, 1980. The other various conditions for grant of EC is enclosed herewith as **Annexure - III**.

- ii. **Salbonapahar Stone Mine of Sri Haradhan Verma, Vill. : Salbonapahar, P.S. Shikaripara, Dist. : Dumka (1.38 Ha).**

(Proposal No. : SIA/JH/MIN/43482/2019).

This is a Stone Mining Project with an area of 1.38Ha [Khata No.- 06 & Plot No.-124(P)]. The latitude and longitude of the project site is 24° 11' 34.42" N to 24° 11' 38.04" N and 87° 34' 08.51" E to 87° 34' 14.63" E. The nearest railway station is Ambajora Shikaripara at a distance of 12 km and nearest airport is Ranchi at a distance of 250 km. Total water requirement is 5.78 KLD (Dust Suppression : 3.9 KLD, Afforestation / Green belt : 0.44 KLD, Drinking / Domestic : 1.44 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Salbonapahar tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 9,33,200.87 tonne

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

1st Year	:	142079.4 tonne
2nd Year	:	88290 tonne
3rd Year	:	142080.75 tonne
4th Year	:	136679.4 tonne

5th Year : 144533.7 tonne

The daily production as per Form-I is 481.78 tonne (max).

The indicated project cost is Rs 28.95 Lakh, a provision of Rs 8.78 Lakh has been indicated for Environment management and CER is Rs. 2.68 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1477, dated 29.07.19 certified that the Udhwa Lake Bird Sanctuary is 89800 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter no. 2302, dated 02.08.16 certified that the distance of notified forest is more than 1200 m from proposed project site.

DMO, Dumka vide memo no. 977, dated 24.08.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Dumka District.

The CO, Dumka vide letter no. 813, dated 30.08.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II. However, CO has just signed on the application of PP which is not correct.

The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

SEAC recommends the proposal for EC to SEIAA subject to submission of certificate from CO regarding class of land. An undertaking in this regard has been submitted by the Project Proponent.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Salbonapahar Stone Mine of Sri Haradhan Verma, Vill. : Salbonapahar, P.S. Shikaripara, Dist. : Dumka (1.38 Ha)** be conditionally recommended for consideration of SEIAA for grant of EC subject to submission of proper CO certificate directly to SEIAA.. The various conditions for grant of EC is enclosed as **Annexure - I**.

iii. **Musna Stone Mine of Sri Sio Mandal, Vill. : Musna, Thana : Gopikandar, Dist. : Dumka (1.955 Ha).**

(Proposal No. : SIA/JH/MIN/43600/2019)

This is a Stone Mining Project with an area of 1.955Ha [Khata No.- 11, 05 & Plot No. -08, 09(P)]. The latitude and longitude of the project site is 24° 27' 31.7" N to 24° 27' 21.2" N and 87° 31' 46.0" E to 87° 31' 41.0" E. The nearest railway station is Dumka at a distance of 34 km and nearest airport is Ranchi at a distance of 260 km. Total water requirement is 4.54 KLD (Dust Suppression : 3.58 KLD, Afforestation / Green belt : 0.15 KLD, Drinking / Domestic : 0.81 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Musna tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 557905 tonne

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

1st Year	:	100310.4 tonne
2nd Year	:	90979.2 tonne
3rd Year	:	65253.6 tonne
4th Year	:	62677.8 tonne
5th Year	:	117628.2 tonne

The daily production as per Form-I is 392.094 tonne (max).

The indicated project cost is Rs 19.02 Lakh, a provision of Rs 5.71 Lakh has been indicated for Environment management and CER is Rs. 8.09 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 2044, dated 21.09.19 certified that National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ within 10 km from Project site.

The DFO, Dumka Division vide letter no. 1554, dated 07.05.18 certified that the distance of notified forest is more than 1352 m from proposed project site.

DMO, Dumka vide memo no. 1024, dated 30.08.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Dumka District.

The CO, Gopikander vide letter no. 192, dated 26.07.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II. However, CO has just signed on the application of PP which is not correct.

The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

SEAC recommends the proposal for EC to SEIAA subject to submission of certificate from CO regarding class of land. An undertaking in this regard has been submitted by the Project Proponent.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Musna Stone Mine of Sri Sio Mandal, Vill. : Musna, Thana : Gopikandar, Dist. : Dumka (1.955 Ha)** be conditionally recommended for consideration of SEIAA for grant of EC subject to submission of proper CO certificate directly to SEIAA. The various conditions for grant of EC is enclosed as **Annexure - I**.

iv. **Bhuska Stone Mine of M/s Maa Durga Stone Works, Vill. : Bhuska, P.S. : Pakur, Dist. : Pakur (2.83 Ha).**

(Proposal No. : SIA/JH/MIN/43345/2019)

This is a Stone Mining Project with an area of 2.83Ha [Khata No.- 08, 02 & Plot No. – 900, 901, 902, 903, 825, 826, 827, 828, 829]. The latitude and longitude of the project site is 24° 36' 39.70" N to 24° 36' 43.64" N and 87° 49' 1.25" E to 87° 49' 4.92" E. The nearest railway station is Nagarnabi at a distance of 5.0 km and nearest airport is Malda at a distance of 56 km. Total water requirement is 3.72 KLD (Dust Suppression : 2.40 KLD, Afforestation / Green belt : 0.203 KLD, Drinking / Domestic : 1.125 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Bhuska tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 9,99,522 tonne

Probable Mineable Reserve : 2,90,483 tonne

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

1st Year : 1,25,860 tonne

2nd Year : 1,26,022 tonne

3rd Year : 1,26,014 tonne

4th Year : 1,26,112 tonne

5th Year : 1,26,056 tonne

The daily production as per Form-I is 420 tonne (max).

The indicated project cost is Rs 30.88 Lakh, a provision of Rs 4.93 Lakh has been indicated for Environment management and CER is Rs. 2.34 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1433, dated 25.07.19 certified that the Udhwa Lake Bird Sanctuary is 39480 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 910, dated 16.08.19 certified that the distance of notified forest is more than 1100 m from proposed project site.

The CO, Pakur vide letter no. 1175, dated 25.07.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Pakur vide memo no. 1555, dated 16.09.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Pakur District.

The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

SEAC recommends the proposal for EC to SEIAA subject to submission of certificate from DMO. An undertaking in this regard has been submitted by the Project Proponent.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Bhuska Stone Mine of M/s Maa Durga Stone Works, Vill. : Bhuska, P.S. : Pakur, Dist. : Pakur (2.83 Ha)** be conditionally recommended for consideration of SEIAA for grant of EC subject to submission of proper **DMO certificate** directly to SEIAA.. The various conditions for grant of EC is enclosed as **Annexure - I**.

V. **Bishunpur Stone Mine of M/s Soura Construction Pvt. Ltd., Vill. : Bishunpur, P.S. & Dist. : Pakur (0.809 Ha).**

(Proposal No. : SIA/JH/MIN/42232/2019)

This is a Stone Mining Project with an area of 0.809 Ha [Plot No. - 719, 720]. The latitude and longitude of the project site is 24° 36' 39.70" N to 24° 36' 43.64" N and 87° 49' 1.25" E to 87° 49' 4.92" E. The nearest railway station is Pakur at a distance of 4.0 km and nearest airport is Ranchi at a distance of 300 km. Total water requirement is 5.91 KLD (Dust Suppression : 3.90 KLD, Afforestation / Green belt : 0.88 KLD, Drinking / Domestic : 1.13 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Bishunpur tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	2,04,347 tonne
Probable Mineable Reserve	:	8060 tonne

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

1st Year	:	67,029 tonne
2nd Year	:	68,817 tonne
3rd Year	:	67,833 tonne

The daily production as per Form-I is 226 tonne (max).

The indicated project cost is Rs 25 Lakh, a provision of Rs 5.40 Lakh has been indicated for Environment management and CER is Rs. 1.17 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1637, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 39130 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 1165, dated 11.07.17 certified that the distance of notified forest is more than 250 m from proposed project site.

The CO, Pakur vide letter no. 229, dated 25.03.17 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Pakur vide memo no. 743, dated 23.03.17 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

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The project is mentioned in District Survey Report (DSR) of Pakur District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bishunpur Stone Mine of M/s Soura Construction Pvt. Ltd., Vill. : Bishunpur, P.S. & Dist. : Pakur (0.809 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

vi. **Bishunpur Stone Mine of M/s Soura Construction Pvt. Ltd., Vill. : Bishunpur, P.S. & Dist. : Pakur (1.30 Ha).**

(Proposal No. : SIA/JH/MIN/42154/2019)

This is a Stone Mining Project with an area of 1.30 Ha [Plot No.- 674, 675, 676, 721, 722, 724]. The latitude and longitude of the project site is 24° 36' 42.92" N to 24° 36' 48.94" N and 87° 49' 1.98" E to 87° 49' 6.63" E. The nearest railway station is Pakur at a distance of 5.0 km and nearest airport is Ranchi at a distance of 300 km . Total water requirement is 5.33 KLD (Dust Suppression: 3.32 KLD, Afforestation / Green belt : 0.57 KLD, Drinking / Domestic : 1.44 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Bishunpur tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 3,68,722 tonne

Probable Mineable Reserve : 27,777 tonne

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

1st Year : 1, 21,880 tonne

2nd Year : 1, 26,644 tonne

3rd Year : 1, 27,463 tonne

The daily production as per Form-I is 424.88 tonne.

The indicated project cost is Rs 27.80 Lakh, a provision of Rs5.86 Lakh has been indicated for Environment management and CER is Rs. 2.20 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1297, dated 03.07.19 certified that the Udhwa Lake Bird Sanctuary is 37640 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 1161, dated 13.07.17 certified that the distance of notified forest is more than 700 m from proposed project site.

The CO, Pakur vide letter no. 513, dated 31.03.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.



DMO, Pakur vide memo no. 560, dated 17.05.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Pakur District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Bishunpur Stone Mine of M/s Soura Construction Pvt. Ltd., Vill. : Bishunpur, P.S. & Dist. : Pakur (1.30 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

vii. Jamuadag Bricks Earth Mining Project of M/s Shivratansahu, Vill. : Jamuadag, Tehsil : Khunti, Dist. : Khunti (3.015 ha).

(Proposal No. : SIA/JH/MIN/42489/2019)

This is a Brick Earth Mining with an area of 3.015 Ha [Plot No.- 626 & 627]. The latitude and longitude of the project site is 23° 06' 03.08" N to 23° 06' 05.97" N and 85° 17' 18.01" E to 85° 17' 23.23" E. The nearest railway station is Karra at a distance of 16 km and the nearest airport is Ranchi at a distance of 21 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 740.74 cum of top soil will be generated during the 5 years plan period @ 148.15 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of 1333.33 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 bricks every year. Thus, a total of about 6666.65 cum quantity of brick earth will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3703.69 sq.m or 0.915 acres in the five year plan period.

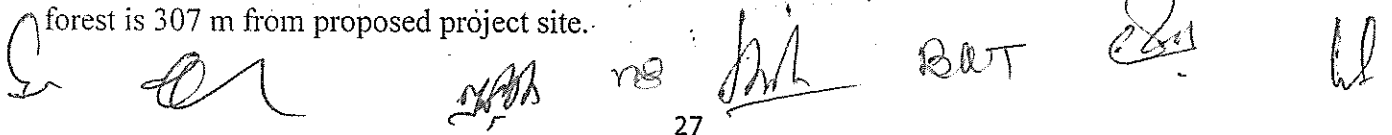
Year-wise Production of brick earth as per Approved Mining Plan Report for five years is as follows

Year	Quantity of brick earth (m ³)	Nos of Bricks Proposed
1 st Year	1333.33	6,00,000
2 nd Year	1333.33	6,00,000
3 rd Year	1333.33	6,00,000
4 th Year	1333.33	6,00,000
5 th Year	1333.33	6,00,000
Total	6666.65	30,00,000

The indicated project cost is Rs15.00 Lakh and a provision of Rs 2.00 Lakh has been indicated for Environment management.

DFO, Wildlife Ranchi vide memo no. 1018, dated 16.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is within 10 km from proposed project site.

The DFO, Khunti Division vide letter no. 36, dated 08.01.2018 certified that the distance of notified forest is 307 m from proposed project site.

 Several handwritten signatures and initials are present at the bottom of the page, including what appears to be 'BAT' and '27'.

DMO, Khunti vide memo no. 19, dated 18.01.18 certified that no other lease is exists within 500 m radius from proposed project site.

The CO, Khunti vide letter no. 605, dated -17.07.19 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Besides, the DSR of the district has not incorporated the said brick earth mining site.

The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

SEAC recommends the proposal for EC to SEIAA subject to submission of certificate from DMO / Dy. Director, Geology & Mines Dept., Govt. of Jharkhand regarding inclusion in the DSR. An undertaking in this regard has been submitted by the proponent.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Jamuadag Bricks Earth Mining Project of M/s Shivratan Sahu, Vill. : Jamuadag, Tehsil : Khunti, Dist. : Khunti (3.015 ha)** ^{conditionally} be recommended ^{for} ~~for~~ ^{conditionally} (project site not mention in DSR) subject to submission of DSR from competent authority directly to SEIAA, consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

viii. **Inta Brick Clay Deposit of M/s New Kanak Bricks, Vill. : Inta, P.S. : Lohardaga, Dist. : Lohardaga (0.967 Ha).**

(Proposal No. : SIA/JH/MIN/43610/2019)

This is a Brick Earth Mining with an area of 0.967 Ha [Plot No.- 389 & 390]. The latitude and longitude of the project site is 23° 23' 53.99" N to 23° 24' 05.58" N and 84° 44' 12.31" E to 84° 44' 13.78" E. The nearest railway station is Irgaon at a distance of 5 km and the nearest airport is Ranchi at a distance of 60 km. Total water requirement is 3.5 KLD. Water will be taken from private tanke.

Total minor mineral reserve of the applied area is about 8574 cum. Estimation of requirement of 1714.80 cum for casting the granted no. of 6,00,000 / season. Life of mine is 5 season.

The indicated project cost is Rs12.00 Lakh and a provision of Rs 2.00 Lakh has been indicated for Environment management.

DFO, Wildlife Ranchi vide memo no. 1034, dated 16.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is within 10 km from proposed project site.

The DFO, Lohardaga Division vide letter no. 3601, dated 13.08.2019 certified that the distance of notified forest is 4100 m from proposed project site.

DMO, Lohardaga vide memo no. 601, dated 10.08.19 certified that no other lease is exists within 500 m radius from proposed project site.

The CO, Lohardaga (Sadar) vide letter no. 1857, dated -01.11.17 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Besides, the DSR of the district has not incorporated the said brick earth mining site.

The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

SEAC recommends the proposal for EC to SEIAA subject to submission of certificate from DMO / Dy. Director, Geology & Mines Deptt., Govt. of Jharkhand regarding inclusion in the DSR. An undertaking in this regard has been submitted by the proponent.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Inta Brick Clay Deposit of M/s New Kanak Bricks, Vill. : Inta, P.S. : Lohardaga, Dist. : Lohardaga (0.967 Ha)** be recommended ^{conditionally} ~~for~~ **conditionally** (project site not mention in DSR) subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II**.

ix. **Belbhadri Stone Deposit of M/s Kashi Builders & Services Pvt. Ltd., Vill : belbhadri, P.S : Mirzachauki, Dist. : Sahibganj (1.32 Ha).**

(Proposal No. : SIA/JH/MIN/43310 /2019)

This is a Stone Mining Project with an area of 1.32 Ha [J. B. No. : 15, Plot No. : 176]. The latitude and longitude of the project site is 25° 14' 18.78" N to 25° 14' 23.49" N and 87° 29' 22.49" E to 87° 29' 27.39" E. The nearest railway station is Mirzachauki at a distance of 2.29 km and nearest airport is Kolkata at a distance of 303.27 km . Total water requirement is 15.5 KLD. Water will be taken from nearby villages (Dug Wells).

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	11,86,488 tonne
Probable Mineable Reserve	:	89,783 tonne

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

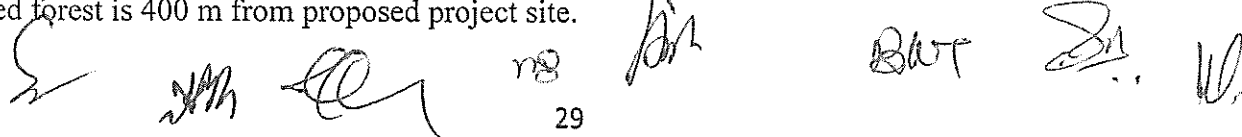
1 st Year	:	1,24,092 tonne
2 nd Year	:	1,22,688 tonne
3 rd Year	:	1,23,034 tonne
4 th Year	:	1,21,073 tonne
5 th Year	:	1,20,614 tonne

The daily production as per Form-I is 408 tonne.

The indicated project cost is Rs 72.00 Lakh and a provision of Rs 4.03 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1543, dated 03.08.19 certified that the Udhwa Lake Bird Sanctuary is 40225 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Sahibganj Division vide memo no. 1943, dated 20.10.17 certified that the distance of notified forest is 400 m from proposed project site.

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The CO, Mandro vide memo no. 528, dated 18.06.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Sahibganj vide memo no. 1977, dated 07.12.17 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Sahibganj District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Belbhadri Stone Deposit of M/s Kashi Builders & Services Pvt. Ltd., Vill : belbhadri, P.S : Mirzachauki, Dist. : Sahibganj (1.32 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

X. **Insha Stone Works of Sri Irashad Ali, Vill. : Mirapara, Block : Sahibganj, Dist. : Sahibganj (2.428 Ha).**

(Proposal No. : SIA/JH/MIN/41202 /2019)

This is a Stone Mining Project with an area of 2.428 Ha [Khata No. : 04 & 28, Plot No. : 106 (P) & 104 (P)]. The latitude and longitude of the project site is 25° 13' 01.45" N to 25° 13' 10.06" N and 87° 41' 59.36" E to 87° 42' 7.30" E. The nearest railway station is Sahibganj at a distance of 6.00 km and nearest airport is Ranchi at a distance of 500 km . Total water requirement is 2.5 KLD. Water will be used for domestic, plantation and dust suppression purposes. The indicated project cost is Rs 75.00 Lakh and a provision of Rs 7.5 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	9,51,845.66 tonne
Probable Mineable Reserve	:	1,40,697.56 tonne

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

1 st Year	:	91,416 tonne
2 nd Year	:	91,767.60 tonne
3 rd Year	:	92,582.14 tonne
4 th Year	:	94,492.50 tonne
5 th Year	:	94,492.50 tonne

The daily production as per Form-I is 310 tonne.

DFO, Wildlife Hazaribagh vide letter no. 1687, dated 21.08.19 certified that the Udhwa Lake Bird Sanctuary is 25880 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Sahibganj Division vide memo no. 1862, dated 26.09.17 certified that the distance of notified forest is 260 m from proposed project site.


The CO, Borio vide letter no. 01/18, dated 07.02.18 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.


DMO, Sahibganj vide memo no. 1272, dated 28.08.17 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Sahibganj District.

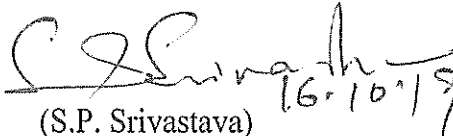
Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Insha Stone Works of Sri Irashad Ali, Vill. : Mirapara, Block : Sahibganj, Dist. : Sahibganj (2.428 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.


The meeting concluded with thanks to all present.



(Dr. B.K. Tewary) 16.10.2019
Member

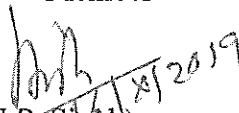

(Dr. R.N. Singh) 16.10.19
Member

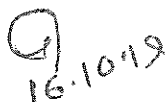

(Y.K. Singh) 16/10/2019
Member



(S.P. Srivastava) 16.10.19
Member


(Dr. V.P. Sinha) 16/10/2019
Member


(M.S. Bhagwat)
Member


(U.P. Singh) 16/10/2019
Member


(Om Prakash)
Member Secretary


(K.P. Bhawsinka)
Chairman

1. PP has provided a copy of revised layout of CBM & TRP over the original plot owned by him & leaves enlarged land in between coal treatment facilities & reported forest boundary
2. other conditions as MoEF& CC & CPC guidelines mentioned are to be complied - not mentioned therein the MOM, which shall be dealt separately
3. All Stone Mining proposals considered do not mention diesel consumption data & arising air pollution & monitoring arrangements which need to be part of EC while grant
4. For Earth mining for Brown proposals are interlinked project. A supreme court judgment for Clean Technology is to be existence latest by July 2020 (may be upheld for judgment) EC is subject to compliance thereof
5. Reports presented did not allow time constraints & need

A. Specific Conditions

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

12. Greenbelt of approved width shall be developed all along the length of mine lease area and haul roads. The Project proponent shall do adequate no at least 50 bamboo gabion plantation each year and maintain it for the life of the mine along the transport road and vacant space, preferably along the periphery of mining lease. Fast growing and local species will be planted.
13. Effective safeguard measures such as regular water sprinkling shall be carried out in the identified 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 as per approved plan shall be carried out on haul roads which should be made pucca as per approved specification of Govt. of Jharkhand with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
14. The project proponent shall implement approved conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
15. The project proponent shall if required, obtain necessary prior permission/NOC from the competent authorities for drawl of requisite quantity of water required from the source for the project.
16. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
17. Vehicular emissions shall be kept under control by regular repairing of transport road and regular air quality monitoring. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of stone / sand outside the mine lease area shall be carried out after the sunset.
18. No blasting shall be carried out after sunset. Blasting operation shall be carried out only during daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
19. Drilling shall either be operated with the dust extractors or equipped with water injection system.
20. Effective safeguard measures shall be taken to control fugitive emissions so as to ensure that RPM (PM10 and PM 2.5) levels are within prescribed limits.
21. Pre-placement medical examination and periodical medical examination of the workers engaged in the project conducted by a Registered Medical Officer shall be carried out and records maintained.
22. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
23. Provision shall be made for the housing of construction labour at a suitable place away from the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets / septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
24. Proper Safety measures as per statutory requirement shall be implemented around the mined out Pit prior to closure of site.

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25. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
26. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein.
27. The Project Proponent shall submit six monthly report on the expenditure incurred on environmental management plan submitted by them.
28. Since blasting and mining on Hillock / Rock out crop may also be carried out, suitable scheme for access / ramp to the highest elevation with gradient shall be submitted for approval from competent authorities.
29. Approved devices for dust suppression shall be installed.

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 as per approved specification of Govt. of Jharkhand 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 be provided with 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. Detailed report shall be sent to Pollution Control Board periodically.
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 SEIAA / JSPCB 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, ZilaParisad / 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 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 will be valid for the period of lease of the mine, till the PP does 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 and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

A. Specific Conditions

1. The environmental clearance is subject to grant / renewal of mining permit by the Department of Mines, Government of Jharkhand to PP Latest Minor Mineral Concession Rules of Govt. of Jharkhand 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. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals / Brick Earth Mining.
4. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs / is found in the Project area). No damage is to be done to fauna if found in ML area (as mentioned in various schedules). In case found they should be given protection. collected alive with the help of the expert and transferred them or handing over them to the concerned authorities.
5. The activity associated with borrowing / excavation of 'brick earth' and 'ordinary earth' for purpose of brick manufacturing, construction of roads, embankments etc. shall not involve blasting.
6. The borrowing / excavation activity shall be restricted to a maximum depth of 2 m below general ground level at the site. However – excavation shall not intercept with ground water level at site.
7. The borrowing / excavation activity shall not alter the natural drainage pattern of the area.
8. The borrowing / excavated pit shall be restored by the project proponent for useful purpose (s).
9. Appropriate fencing all around the borrowed / excavated pit shall be made to prevent any mishap.
10. Measures shall be taken to prevent dust emission by covering of borrowed / excavated earth during transportation.
11. Safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing / excavation of earth.
12. Workers / labours shall be provided with facilities for drinking water and sanitation.
13. A considerable space from mine pit shall be left from the boundary of adjoining field, having, minimum width of 5M.
14. A minimum distance of 15 m from any civil structure shall be kept from the periphery of any excavation area.
15. 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.
16. 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.

17. 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.
18. 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.
19. The project proponent should implement suitable conservation measures to augment ground water resources in the area as per guidelines of Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
20. 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.
21. Suitable rainwater harvesting scheme shall be planned and implemented as per guidelines of Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
22. 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.
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. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
26. Provision shall be made for the housing of 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.
27. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
28. A final mine closure scheme plan of mine pit shall be submitted to concerned DMO in advance of final mine closure for approval.
29. The excavated earth – by such Brick mining pit owner – shall be supplied only to owners of manufacturing of bricks –having “Consent to Operate” under the provision of section 25 and 26 of The water (prevention and control of pollution) Act, 1974 and under section 21 of The Air (prevention and control of pollution) Act, 1981.
30. All haul roads connection to mining pit head to concerned Brick kilns – shall have muram / Brick paved road to avoid fugitive emission during transportation activities. In addition to this there shall be tree plantation in both side along the haul road.
31. Prime agricultural land shall not be used for earth mining – until and unless – permission of conversion of land has been obtained by component authority.

B. General conditions

1. No change in mining methodology 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 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. 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.
8. Dispensary facilities for First Aid shall be provided at site.
9. 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).
10. 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.
11. 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 its concerned Regional Office and to SEIAA.
12. 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.
13. 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.

14. 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.
15. 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 will be valid for the period of lease of the mine, till the PP does 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 and other Wastes (Management and Transboundary Movement) Rules, 2016 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.

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Standard EC Conditions for Mining and**I. The EC is subject to obtaining the following clearance and statutory compliance:**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. Monitor fugitive emissions in the plant premises.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent use leak proof trucks/dumpers carrying ore and other raw materials and cover them with tarpaulin.

- vii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- viii. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. The project proponent shall provide the slime disposal facility with impervious lining and collection wells for seepage. The water collected from the slime pond shall be treated and recycled.
- v. Adhere to 'Zero Liquid Discharge'.
- vi. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- viii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- ix. The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

V. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.

VI. Waste management

- i. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016

- ii. Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case basis depending on type and size of plant)

VII. Green Belt and EMP

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. 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, 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.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

IX. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
 - i. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out
- v. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
 - i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- viii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- ix. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- x. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xi. The Ministry reserves the right to stipulate additional conditions if found necessary.

The Company in a time bound manner shall implement these conditions.

- xi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xii. The Environmental Clearance accorded will be valid for the period of lease of the mine, till the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.

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- xiii. The above conditions shall 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, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xiv. Any appeal against this EC 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.

XI. Specific condition

- (i) Implementation of the site specific species conservation plan for Schedule species in the core & buffer zone may be ensured.
- (ii) The Project shall follow the International Cyanide Management Code (ICMC) for the Manufacture, Transport, and Use of Cyanide in the Production of Gold for Safe-guards for handling of cyanide. Regular Training to workers for handling of cyanide should be arranged.
- (iii) Names of trained personal should be displayed who will be involved in the rescue operation during handling of such chemicals. Monitoring of the management of Cyanide on a regular basis by the Regional Office, MoEF will be done.
- (iv) Monitoring of pH shall be done by piezoelectric system as per International Cyanide Management Code. There shall not be any cyanide contamination during beneficiation process.
- (v) No effluent shall be discharged outside the mine lease area.
- (vi) Continuous monitoring of radioactive elements such as Radon (Rn) shall be undertaken till entire mine is dewatered and reported to MoEF Regional Office. Periodic monitoring of radon exhalation of worker shall be included in the Occupational Health Monitoring programme.
- (vii) Implementation of Environment Management Policy of the Company w.r.t. judicious use of Mineral resources for growth & development synchronizing' mining & environment with prosperity shall be ensured.
- (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be

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overloaded. Water sprinkling should be Increased at loading and unloading points & transfer point to reduce fugitive emissions.

- (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board with effective implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.
- (x) Monitoring of Ambient Air Quality will be carried out as per NAAQ Notification, as amended from time to time by the Central Pollution Control Board.
- (xi) For upliftment of scheduled caste/scheduled tribe population, specific programmes shall be implemented specially with respect to education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population and that these will be intensified in.
- (xii) The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.
- (xiii) 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. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.
- (xiv) Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate

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size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies 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 shall be constructed at the corners of the garland drains and desilted at regular intervals.

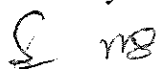
- (xv) Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
- (xvi) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained.
- (xvii) Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment and Forests, its Regional Office. Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.
- (xviii) Regular monitoring of ground water level and quality shall 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 shall be carried out four times in a year - pre- monsoon (April-May), monsoon (August), post- monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment and Forests and Its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.
- (xix) 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. Drills shall either be operated with dust extractors or equipped with water injection system.
- (xx) Pre-placement medical examination and 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.

- (xxi) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary fund allocation for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office.
- (xxii) 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, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (xxiii) The proponent shall complete all the tasks as per the action plan submitted with the budgetary provisions during the public hearing, as per schedule.
- (xxiv) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forests and Climate Change 5 years in advance of final mine closure for approval.

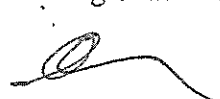
XI. General conditions

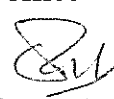
- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forests and Climate Change.
- (ii) No change in the calendar plan including excavation, quantum of mineral gold ore and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for PM10, PM2.5, 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.
- (iv) Data on ambient air quality (PM10, PM2.5, SO₂ & NO_x) should be regularly submitted to the Ministry including its Regional office located at















Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board once in six months.

- (v) The critical parameters such as PM10 (size less than 10 micro meter), PM2.5 (size less than 2.5 micro meter), SOx and NOx 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.
- (vi) Fugitive dust emissions from all the sources should be controlled and monitored regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- (vii) 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.
- (viii) Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, reclaimed areal around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.
- (ix) Industrial waste water (workshop and waste water from the mine) should be properly collected and 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 workshop effluents.
- (x) 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.
- (xi) 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.

- (xii) A separate environmental management cell with qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (xiii) The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office.
- (xiv) The project authorities should inform to the Regional regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (xv) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- (xvi) The project proponent shall upload six monthly report on the status of the implementation of the stipulated environmental safeguards at the website of the company regularly.
- (xvii) The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest & Climate Change, its regional office & State Pollution Control Board.
- (xviii) A copy of clearance letter will be marked to concerned Panchayat / local NGO, If any, from whom suggestion / representation has been received while processing the proposal.
- (xix) State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.
- (xx) The project authorities should 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 State Pollution Control Board and also at web site of the Ministry of Environment, Forests and Climate Change at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office

of this Ministry located Bhubaneswar,

XII. Other conditions

- i. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- ii. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- iii. 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 / NGT, High Court of Jharkhand and any other Court of Law relating to the subject matter.

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