

**MINUTES OF THE 78<sup>TH</sup> MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 18<sup>TH</sup> 19<sup>TH</sup> & 20<sup>TH</sup> SEPTEMBER, 2019**

The 78<sup>th</sup> meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 18<sup>th</sup>, 19<sup>th</sup> & 20<sup>th</sup> September, 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
6. Dr. V.P. Sinha - Member
7. Sri U.P. Singh - Member
8. Sri Om Prakash - Member Secretary

Dr. R. V. Singh & M.S. Bhagwat, 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 29<sup>th</sup> & 30<sup>th</sup> August, 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 : September 18, 2019 [Wednesday]**

**A. Discussion on matter related to**

**1. Minutes of the 75<sup>th</sup> Meeting of SEIAA, Jharkhand held on 04.07.2019.**

**i. DSR related matter – regarding.**

The DSR was earlier discussed in its 70<sup>th</sup> meeting held on 29-30.04.2019 and recommended that –

*“In view of Hon'ble NGT and MoEF&CC orders referred above, it may please be noted that presently the DEIAA / DEAC of districts have stopped functioning. Thus, SEIAA is requested to resolve the mandatory DSR issue in coordination with Deptt. of Mines & Geology, Govt. of Jharkhand and other stakeholders.”*

SEIAA in its 71<sup>st</sup> meeting held on 07.05.2019 has sought the legal opinion from retainer on the issue of DSR.

The said legal opinion has been submitted by the Advocate Shri Bhanu Kumar, Jharkhand High Court.

SEIAA in its 75<sup>th</sup> meeting held on 04.07.2019 discuss the matter and forwarded to SEAC for appropriate action.

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To keep pace with development of the Jharkhand State and the difficulties of infrastructure related projects SEAC proposed to recommend for EC on the basis that PPs submits the concerned DC's/ Director, Geology approved of the site to be included in the revised DSR. Based on this approval of SEIAA, the SEAC Committee follow the status on the updated status as given by the competent authority of the concerned district and the conditional EC is recommended. SEAC proposes to follow the same interim arrangement further also.

**ii. Kawabar Stone Mine Project of Sri Binod Kumar, Vill. : Kawabar, Dist. : Koderma (0.81 ha).**

The matter was discussed in its 70<sup>th</sup> meeting held on 29-30.04.2019 and recommended that –

*“DFO, Koderma vide letter no. 2106, dated 16.10.2001 certified that the project site is lying adjoining the forest (i.e. distance is zero).*

*Thus as per SEAC recommendation in 49<sup>th</sup> meeting it comes within the zone, where EC could not be granted. Thus, accordingly recommends to take appropriate legal action.”*

SEIAA in its 71<sup>st</sup> meeting held on 07.05.2019 has sought the legal opinion for issuance of ToR or EC whether the present criteria from forest (RF/PF) can be implemented with retrospective effect.

The said legal opinion has been submitted by the Advocate Shri Bhanu Kumar, Jharkhand High Court.

SEIAA in its 75<sup>th</sup> meeting held on 04.07.2019 discussed the matter and forwarded to SEAC that the legal advisor has suggested for appropriate action.

SEAC discussed the matter & resolved that the decision taken by SEAC earlier stands valid.

**2. Minutes of the 76<sup>th</sup> Meeting of SEIAA, Jharkhand held on 31.07.2019 & 01.08.2019.**

**i. JSMDC Ltd. letter no. 1062, dated 06.07.19 regarding method of mining for sand projects of JSMDC Ltd.**

In the earlier meeting of SEAC held on 24-26.07.19 this matter was discussed & forwarded to the SEIAA to look into this and take appropriate action. However SEIAA 76<sup>th</sup> MOM dt. 31.07.19 & 01.08.19 M.S, SEIAA has suggested SEAC to correspond to MoEF&CC.

This committee discussed & authorised M.S. SEAC to correspond to MoEF&CC regarding the manual / semi mechanised mining of sand in the light of Sustainable Sand Mining Management Guidelines, 2016 of Jharkhand State.

**ii. Dharguli Stone Mine of M/s Balaji Enterprises of Shri Jitendra Yadav at Vill. : Kalichatan, Thana : Bagodar, Dist. : Giridih (4.47 ha).**

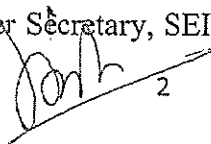
The DFO, Hazaribagh East Forest Division vide its confidential letter no. 2993 dated 24.08.19 intimated Member Secretary, SEIAA, Jharkhand that Environmental Clearance

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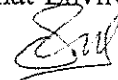
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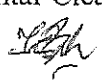
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for stone mining in Mauja : Kali chattan Plot no. 98(P) area 11.04 acre, Circle : Bagodar, Distt : Giridih has been granted by SEIAA, Jharkhand vide its letter no. 1592 dated 09.09.15. The said letter of DFO has been forwarded by SEIAA vide its memo no 421 dated 05.09.19 to SEAC, Jharkhand for necessary action.

It is apparent from the annexure of the said letter of DFO that the said stone mining lease of Mauja : Kali chattan has been granted to M/s. Balaji Enterprises, of Sri Jitendra Yadav Vill.: Nawada Post : Jhumri Tilaiya Distt. : Koderma by the DC, Giridih *w.e.f.* 15.10.2015 for 10 years.

The DFO vide her aforesaid letter has intimated that the said plot of Mauja : Kali chattan is recorded as jangle-jhari in Register II and the mining site is 96 m from the notified forest. The DFO has also intimated that the said lease of Kali Chattan Stone mines was granted on the basis of submission of a false & forged certificate by the PP regarding distance of project site from the notified forest, issued purportedly by the then DFO, Hazaribagh East Div.

The DFO, Hazaribagh East Div. has also intimated that subsequent to confirmation regarding forged certificate of then DFO, Hazaribagh East Div., the matter was reported to Asst. Mining Officer, Giridih vide DFO letter no. 4794 dt. 04.12.17, letter no. 1151 dt. 26.03.18, memo no. 1582 dt. 25.04.18, letter no. 3027 dt. 03.08.18 & letter no. 225 dt. 17.01.19 with request to cancel the mining lease of Kali Chattan Stone Mines with an intimation to DC, Giridih. The DMO, Giridih without complying the provisions of F (C) Act & order of the Hon'ble Supreme Court passed in C.A. no. 202 / 95 on 12.12.96, has requested vide his letter no. 1383 dt. 08.09.18 to the DFO, Hazaribagh East for requesting SEIAA to cancel the said EC.

Thus, it is apparently clear that the proponent has violated the provisions of Forest (Conservation) Act, 1980, either due to ignorance or collusions / connivance of SEIAA, Jharkhand / DC & DMO, Giridih. The said act of violation would attract penal provisions of F(C) Act & Rules. Besides, FIR should be lodged in the Police Station for conniving to fabricate forged letter of DFO.

The SEAC thus recommends that -

- (i) The erring officials viz DMO, Giridih (even DC, Giridih if he has been intimated) as well as concerned SEIAA officials should be booked for violating the provisions of F (C) Act and the direction of Hon'ble Supreme Court dt. 12.12.96.

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- (ii) FIR should be lodged against the concerned official / staffs of Hazaribagh East Div. as well as the project proponent for fabricating the said forged certificate and collusion & criminal conspiracy in the said act.
- (iii) Departmental proceeding should be initiated against the official / staff of Hazaribagh East Div. in fabricating forged certificate.
- (iv) Mining lease as well as Ec should be cancelled with immediate effect as per rule.

**iii. Bricks Clay Mining of M/s 555 Bricks (Prop : Shri Jitendra Singh) at Vill. : Japkakona-Kumbharband, P.S. : Simdega, Dist. : Simdega (1.00 ha).**

This case was referred by DFO, Simdega that the brick kiln lies in 400 m of Palkot Wildlife Sanctuary. Earlier the SEAC discussed the matter & forwarded SEIAA to take appropriate action.

However SEIAA in MoM 76<sup>th</sup> dt. 31.07.19 & 01.08.19 Suggested SEAC to take appropriate recommendation.

SEAC discussed the matter in the light of MoEF & CC OM no. F.No. 22-43/2018-IA.III dt. 08 Aug'19 regarding the Eco sensitive zone & siting of industries and recommends to SEIAA that immediately EC should be withdrawn.

**B. Consideration of Proposals**

**i. Proposed Rehabilitation & Resettlement Package for HEC Displaced Persons of M/s Greater Ranchi Development Agency Ltd. (GRDA) at Site 1, HEC area, Vill. : Aani, Dhurwa, Ranchi. (Proposal No. : SIA/JH/MIS/115596/2019)**

The proposed project is of Rehabilitation & Resettlement Package for HEC displaced persons being developed by Greater Ranchi Development Agency limited (GRDA) of Jharkhand at Site-1, H.E.C area, Aani Dhruwa, Ranchi, Jharkhand. The project comprises of the Residential houses, Primary School, Community Centre, Shopping centre etc.

The proposed project is being developed on the total plot area of 236835.4 sq.m. & the built up area of the proposed project is 48890.54 sq.m. including the FAR.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

The said project is a violation case, since the BCD, Government of Jharkhand, Ranchi has started the construction work without obtaining prior EC. In order to obtain EC from MoEF&CC the PP had applied before EAC, MoEF&CC to get the EC, as per procedure prescribed in Notification dated 14.03.2017.

**Chronological Events :**

| S. No | Particulars    | Dates                           |
|-------|----------------|---------------------------------|
| 1.    | Land allotment | 19 <sup>th</sup> November, 2011 |

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| 2. | Construction Work Started                             | 15 <sup>th</sup> December, 2016  |
| 3. | Proposal submitted to MoEF & CC in violation category | 11 <sup>th</sup> September, 2017 |
| 4. | Transferred proposal to SEIAA<br>Jharkhand            | 28 <sup>th</sup> March, 2018     |
| 5. | EDS Letter  | 15 <sup>th</sup> May, 2018       |
| 6. | TOR Proposal (Resubmission) EDS reply                 | 20 <sup>th</sup> June, 2019      |
| 7. | Acceptance of ToR proposal                            | 20 <sup>th</sup> June, 2019      |

**Salient features of the project:**

|    |   |   |
|----|---|---|
| 1. | Name of the project                                     | Rehabilitation & Resettlement Package for HEC displaced persons   |
| 2. | Name of applicant                                       | Greater Ranchi Development Agency Limited (GRDA)  |
| 3. | Category of the project                                 | 8 (a) Building and Construction Projects  |
| 4. | Project location  | Village Aani Dhruwa, Ranchi. Jharkhand<br>Latitude : 23°19'22.9"N to 23°19'35.8"N<br>Longitude : 85°17'03.8"E to 85°17'02.4"E |
| 5. | <b>Total Plot Area</b>                                  | 236835.4 sq.m.  |
| 6. | Permissible Ground Coverage @ 50% of plot area          | 118417.719 sq.m.  |
| 7. | <b>Proposed Ground Coverage @ 20.505 % of plot area</b> | 48563.107 sq.m.   |
| 8. | <b>Permissible FAR @ 2 of plot area</b>                 | 473670.877 sq.m.  |
| 9  | <b>Proposed FAR @0.2 of plot area</b>                   | 48563.986 sq.m.   |
| a  | Area for 400 DU   | 47184.000 sq.m.   |
| b. | Pre Primary School (G+1)                                | 674.809 sq.m.   |
| c. | Community Centre  | 460.736 sq.m.   |
| d. | Convenience Shopping (2 NOS)                            | 328.764 sq.m.   |
| e  | WW  | 109.56 sq.m.  |
| f  | LCS   | 132.67 sq.m.  |
|    | <b>Total Built-up Area</b>                              | 48890.54 sq.m.  |
| 8. | Open Area ( plot area - achieved ground coverage)       | 188272.3318 sq.m.   |
| 9. | Landscape area provided@10% of open area                | 18827.233 sq.m.   |

|     |                             |  |
|-----|-----------------------------|--|
| 10. | Paved Area                  | 169445.099 sq.m.                                 |
| 11. | Nearest Airport / Railway   | Birsa Munda Airport, approx. 2.3 Km towards East |
| 12. | Total Water Requirement     | 310 KLD  |
| 13. | Fresh Water Requirement     | 179 KLD  |
| 14. | Wastewater Generation       | 215 KLD  |
| 15. | Capacity of STP             | STP - 260 KLD                                    |
| 16. | Solid Waste Generation      | 867 kg/day                                       |
| 17. | Parking Required & Provided | 400 ECS  |
| 18. | Power Demand & Source       | 1020 KVA(by JSEB)                                |
| 19. | RWH Pits                    | 15 pit   |
| 20. | Total project cost          | 185 crores                                       |

| S. No. | FEATURES                | DESCRIPTION   | DISTANCE & DIRECTION                                  |
|--------|-------------------------|---|---|
| 1.     | Location                | Site-1, H.E.C. Area, Village-Aani, Dhruwa, Ranchi, Jharkhand. |   |
| 2.     | Connecting road         | Nayasarai Road<br>Ring Road                                   | 0.6 km towards South<br>3.7 Km towards West           |
| 3.     | National Highway        | NH-75<br>NH-23  | 1.9 Km towards East<br>5.2 Km towards North West      |
| 4.     | Nearest Railway Station | Hatia Railway station<br>Ranchi Railway station               | 4 km towards South East.<br>3.8 Km towards North East |
| 5.     | Airport                 | Birsa Munda Airport, Ranchi                                   | 2.3 Km towards East                                   |

#### Water requirement:

During construction phase, source of water is private water tanker. It is estimated that water demand during the construction phase may vary from 20 KLD. Water requirement during the operational phase will be met through either Municipal supply (Ranchi Municipal Corporation or Ground water after taking permission from CGWA). The total water requirement for the proposed project has been estimated to be 310 KLD. Total domestic water requirement of the project is estimated as 176 KLD.

#### Power requirement:

Estimated power load for the project is 1020 kVA. Source of the power will be Jharkhand State Electricity Board. DG Sets are not proposed for power back up.

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### King facility:

The total parking 400 ECS has been proposed as 1 ECS for per Dwelling unit.

### Solid waste generation and management

It is estimated that maximum solid waste generation would be about 867 kg/day and 156.52 kg of sludge (wet basis). Organic waste converter shall be providing to manage the biodegradable waste. The domestic solid waste will be generated by the occupants of the R & R Packages, pertains to the two categories, Bio-degradable and Non-biodegradable. Small area will be designated for secondary processing, where the proper segregation of waste will take place before sending it for proper disposal. These solid wastes will be collected separately by putting three types of separate bins at the source of generation. For the biodegradable waste green bins will be provided, for the Non-biodegradable waste White bins and for the domestic hazardous waste black bins will be provided. The E-waste (Discarded computers, copiers, fax machines, electric lamps, cell phones, audio equipment, etc) generated will be managed as per the E-Waste (Management) Rules, 2016. The Hazardous waste (Used Oil, Oil Contaminated Wastes ) generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.

### Ecological Damage Assessment :

Project proponent has completed construction work and ready occupation before getting Environmental Clearance under EIA Notification, 2006 as observed in field inspection by the SEAC members on dated 26.07.19. This has been estimated as per the field study data generation and analysis by the NABET accredited and NABL approved consultant and laboratory as per the MoEF&CC notification S.O. 1030(E), dated 08.03.18 for violation cases directive.

### Natural Resources Damage Assessment

| Components     | Activities   | Probable impact   | Remark   |
|----------------|--|---|--|
| Land resources | The land was allotted to project proponent by Jharkhand government for the development of assembly building project. Clearing of shrubs and herbs<br>Excavation for laying foundation; | Loss of top soil; land use changes; changes in drainage patterns; soil erosion; & soil contamination. | The top soil is kept at the earmarked places within the project site and stabilized through vegetative means to stop wash off and erosion. No change in land use and effective storm water management system is proposed to ensure no change in drainage patterns. |
| Water resource | Water drawl of about 24 KLD for construction. Wastewater generation (90 KLD)   | Depletion of ground and surface water resources, contamination of ground and surface water            | Rainwater recharging with in project site and in study area; Maximum reuse of treated water (STP); reduce the load on  |

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|                                     |  |  | ground water by providing treated water to the nearby building construction activities<br>No discharge will be made to any water body.  |
| Waste resource                      | Waste generation of 357 Kg per day , Excavated soil                      | Littering of waste<br>Dumping of excavated soil in the open land in vicinity.      | All the waste will be managed as per  |
| Energy resource (Fuel; Electricity) | Utilization of wood/ coal, diesel and electricity                        | Deforestation for collecting wood; Impact on flora and fauna                       | LPG cylinder will be used for cooking and wood and coal will not be used. Ultra low sulphur diesel will be used in DG sets and vehicles.  |
| Air Environment                     | Excavation<br>Loose construction material<br>Storage<br>Use of DG sets   | Particulate matter<br>Emission Fugitive dust emission. Gaseous emission            | Suppression of dust and fugitive emission, only PUC certified vehicle will be used. All loose construction material will be covered. DG sets will have stack having stack height as per CPCB. DG sets will be used only in case of power failure. |
| Noise Environment                   | Increase in traffic frequency and resultant noise.<br>Noise from DG sets | Disturbance to vulnerable groups<br>Disturbance to nearby residents                | There will be acoustic enclosure for DG sets; construction activity will be during day time only.<br>Only properly maintained and PUC vehicle will be used.<br>Honking will be discouraged.   |
| Water Environment                   | Water withdrawal Generation of waste water                               | Stress on water resources.<br>Discharge of untreated sewage and domestic effluent. | Site is in safe zone as per CGWA; River Subarnarekha River is in vicinity; the water will be supplied by Nagar Nigam; There   |

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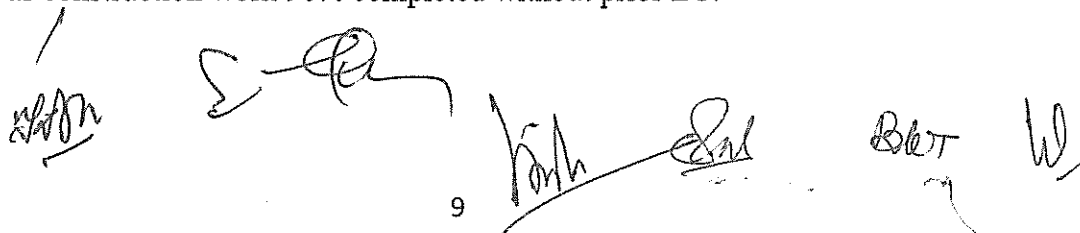
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|                                    |  |  | will be a provision of STP based on MBBR technology so as ensure that water resource are reused within site and ground water is not contaminated.   |
| Land Environment                   | Excavation of laying down foundation Land loss Vegetation removal                                      | Spillage Top soil deterioration; landuse & drainage pattern change; cutting and filling. | Vacant land with shrubs and herb; no tree cutting proposed – number of tree will be planted at the site; Nonagricultural private land.<br>Green belt development; RWH Proposed to reduce runoff from site as ground water recharge.                     |
| Ecology & Biodiversity Environment | Site clearance Clearing of shrubs and herbs  | Loss of topography, Loss of vegetation Migration of flora and fauna                      | Proper levelling and filling<br>The shrubs and herbs found at the project site were of common occurrence and similar type of habitat is abundantly available in the study are therefore no significant impact envisaged, conservation plan is proposed. |
| Socio-economic Environment         | Migration of people Welfare activities Employment facilities Solar lights Environmental sustainability | Increase in infrastructural facilities. Improved employment;                             | Positive Impact   |

DFO, Ranchi Division vide letter no. 3245, dated 10.07.19 certified that the distance of notified forest is 1100 m from proposed project site and not within 10 km from National Park, Bio-Diversity & Sanctuary, not under the No Mining Zone, and proposed project is not situated in any ESZ.

PP and the consultant presented the project and submitted the earlier required documents. They admitted that the large amount of construction work has been completed before the grant of EC. Thus this is a violation case as per the E (P) Act, 1986 and MoEF&CC notification S.O. 1030 (E), dated 08.03.18 as construction work 90% completed without prior EC.


  
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SEAC is concerned to find the violation of E (P) Act by the executing agency in a number of projects in the plea of ignorance. There is a need to identify the reason of lapses in not seeking prior EC before starting the work. This amounts to repeated violation under E (P) Act.

Earlier the proposal was presented in SEAC on 24-26.07.19 in which requisite documents were sought as under -

- i. PP to submit an Undertaking / Affidavit that the work has now been stopped till the EC awarded.
- ii. The work order / scope of work to the Architect / Contractor as the work was awarded earlier.
- iii. CO certificate regarding class of land (whether as Jangle Jhari or not).

The above mentioned requisite documents have been submitted by the PP, except CO certificate regarding class of land (whether recorded as Jangle Jhari or not).

On scrutiny of the document eg :

- i. Undertaking : The PP has submitted the undertaking that all activities, as per SEAC direction have been stopped till EC is obtained.
- ii. CO certificate regarding the nature of land submitted. This Certificate is provided by Addl. Collector but the class of land as recorded in Khatiyani & Register II as to whether Jungle-Jhari or not, has not been mentioned .
- iii. Geotechnical report for the site is yet to be submitted in the certificate.

In the work order of the Architect, it is observed in para 3.2.8, Stage II, column (c) – that the architect has been entrusted to get the approval and clearances from the statutory authorities as required. The PP & the contractor have not adhered to the task and directly started the work without getting prior E.C, leading to case of violation of E (P) Act, 1986.

To identify the damage to the environment and assessment of the corrective measures as per the MoEF&CC notification S.O. 1030(E) dated 08.03.2018, a site visit was conducted by the SEAC members on 26.07.2019. The observations of site visit is as follows :

- (i) The construction work of the individual units of 400 dwelling units have been almost completed.
- (ii) The roads, drainage system, fire fighting measures are under various stages of completion.
- (iii) A nalla flows nearby the project site and a large quantity of the debris have been thrown out. Thus, leading develop a protective measures for maintaining the ecology of the nalla.
- (iv) The status of completion of Rehabilitation colony was observed to be about 90%. The location of cluster of septic tanks and soak pits for the entire Rehabilitation colony was found to on the western /south western, western bank of the natural perennial stream/water course. Since proximity of the septic tanks/soak pit is close to the natural stream and the terrace level, on which these are located at a depth of about 1.25m from terrace level of the colony's road, possibly a little higher than the river bank terrace level during monsoon, contamination of water in the stream & disturbance to ecology is imminent due to dispersion of effluent from soak pit.

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Thus, for protecting the stream and its downstream from imminent contamination and environmental hazard, these two possible mitigation measures. are as under :

- a. Complete relocation of cluster of Septic tanks and Soakpits to a far away place (farther from stream), so that after dispersion and its dilution of the effluent, concentration of polluting effluent will be minimum.
- b. Abandoning all the soakpits/cluster of soakpits and taking the discharged effluent from the soakpit and routing and treating it to a suitably located and adequately designed STP system with strong consideration on the quality of effluent from STP likely to be discharged from STP (within all admissible limits of ingredients).  
Beside the above, permission from Water Resources Deptt., GOI for grant of consent to discharge in the natural stream may have to be sought by the project proponent.
- c. Presently the work has been stopped.

In earlier meeting dated 29-30.08.19 the PP & consultant presented a preliminary result of the evaluations as per matrix method and the storm water drainage system proposed and sewerage system, safety measures to be adopted parking & other activities. The identification of community development measures were discussed.

The PP has submitted undertaking vide Executive Engineer, Special Works Division, Building Construction Deptt., Jharkhand letter no. 1100, dated 28.08.2019 that in case the proposed project site is found to be Jungle-Jhari land then in that case PP would abide by the provisions of Forest (Conservation) Act, 1980 and submit requisite proposal.

The Deputy Commissioner, Ranchi has submitted undertaking regarding Jungle-Jhari as per Revenue and Land Reform Department, Govt. of Jharkhand letter no. 4792, dated 04.12.18 that user agency would abide by the provisions of Forest (Conservation) Act, 1980 and submit requisite proposal, if the project site found to be Jungle –Jhari in future.

The proposal was presented in SEAC on 29-30.08.19. The PP was informed the following findings vide subsequent communication :

1. *Since, construction phase is over, budgetary provisions made for Rs. 37.5 lakhs in Table 12-3 has no relevance for the Ecological/Environment damage assessment.*

*A detailed analysis need to be prepared for the true / realistic assessment based on each affected component of project site like quantity of Excavation, Transportation of quantified qty. of raw materials, land use pattern, drainage & discharge pattern happening during all these 4 years of construction.*

2. *Cost of Remediation measure for "Water Environment" is as follows :*

*It mentions that DG with acoustic enclosure = "Rs. 5 Lakh x 5 year Capital cost and Rs. 0.5 lakh X 5 yrs. recurring cost"*

*Since it is a remediation measure, budgetary quotation need to be submitted as the amount needs to be deposited on account of this Similarly Budgetary quotation for Noise protective equipment to be obtained & submitted.*

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3. *In Preamble Pg 1-1 mentions that approx. 80% of construction activities have been done on the site at other place it is mentioned as 90% & other place it is mentioned that construction is completed.*
4. *In 1.2 Brief description of project, it is mentioned that topography "almost plain" but from contour plan it is not plain.*
- 5- *CO, Nagri letter dt. 14.08.19, it is mentioned that Dhurwa Dam is located within 500 m distance but in page I-4, it is mentioned that Hatia Reservoir as 6.5 km SW. Both these documents are Contradictory ?*
6. *For proposed Water Conservation Measures, page XII-13 mentions :*  
*"All concrete structures will be painted with anti-curing agent to save water" since construction work is over, the PP need to submit contractor's approved BoQ for this specified work . In absence of evidence for this, it will be concluded that no such paint has been used in the construction, in spite of being envisaged/planned.*
7. *Page XII-13 mentions that "Ponds should be made using Cement & Sand mortar to avoid water flowing away from the flat surface while curing". The PP need to submit documentary evidence from the contractor's contract showing availability of this work in contractor's scope or any evidence substantiating that this pond construction work has been carried out & made use of, during curing activity of constructions work requiring curing, which is now completed.*
8. *Rain Water Harvesting Pits PXII-14*  
*In calculation of R.W. Harvesting pit, no provision has been kept for free board. Considering free board, the numbers of pits would be increased. Location of recharging pit need to be shown in key Plan.*
9. *Conclusion & Discussion (Construction phase)*  
*Construction of Silt fences/berms is proposed to minimise soil runoff. The PP to confirm whether these silt fences/berms proposed during construction phases were constructed. If not constructed, it is concluded that soil run off has taken place during construction. During site visit, silt fences / berms were these not visible.*
10. *Disposal of Construction debris in "earmarked area" shall be submitted . PP to confirm the same & mark on drawing / key plan, the earmarked area for its verification.*
11. *Nature Resource damage assessment :*  
*Water Source : Maximum reuse of treated water for building construction activities were envisaged by PP, (treatment through STP). Since STP not constructed, this aimed reuse of Water not achieved during Building Construction.*
12. *Table 12.1 Page XII-2 Land Resource :*

*Remarks that "no change in Land use & Drainage system is proposed" is not a correct statement & needs to be corrected."*

13. Energy Resource : (Fuel : Electricity)

Remark column states that wood & coal will not be used & Low sulphur diesel will be used PP need to certify the same as construction phase is over.

14. Water Environment Table 12.2 pg XII-4 :

There is no provision for STP for the effluent from septic tanks, it has presently been planned to be discharged into soak pits constructed adjacent to perennial stream flowing – Needs Re-planning

15. Ecological Environment Status XII-20 Here it is mentioned that:

- (a) That proposal is for development of residential & commercial project (needs correction)
- (b) Project site is 5656.30 acres (needs correction)

16. Reply to compliance ToR point no. 4 “Entire area has been virgin land no trees have been cut during project development”. In this chapter XII, it is mentioned that during field investigation in core zone more than 25 tree species were observed. There seems to be some contradiction.

17. In reply to specific condition point no. 3 compliance of ToR, wherein nallah river flowing on northern side, it is mentioned on page I-12, that there is no nallah flowing : But on Page XII-20, it is clearly mentioned “Two streams are observed in the core zone namely LAMATA & NATI STREEMS.” This is a contradiction & needs elaboration. These streams have not been indicated in the key plan or in the contour plan. All details like its width, route etc shall be indicated in the contour plan to examine the drainage scheme of the project.

18. Table XII-24 500 trees estimate need to corrected with road length of the colony.

19. Table 12.10 Damage Assessment

Damage assessment on all the six fronts needs breakup calculation, analysis & elaboration

20. Chapter 2.12

While details of construction materials have been identified, these have not been quantified. For remediation, estimate, quantification of these need to be done, based on which material movement/material handling undertaken will be estimated to assess the damage.

PP has submitted reply vide letter no. 1110 (NE) dated 29.08.19 wherein reply to query no. 1 they have indicated quantification of soil for the project & indicated depth of excavation. These figures have not been substantiated with the BOQ in the contract, excavated quantity at site as per contractor’s approved upto date bills cumulative quantity on account of all earth works carried out for the project in all types of excavation for foundation, site preparation, terracing backfilling site levelling to achieve the finished terrace level drains, boundary wall etc. The quantities appear to be too low for a project of this magnitude.

The PP has submitted reply to the above observation in the 2<sup>nd</sup> week of September 2019.

[A] Documents required / corrections needed

Despite seeking appropriate layout drawing with proper co-ordinate system & legible contour plan,,PP did not make available the same. Layout plans without any coordinate system & legible levels of contour has so far been furnished. PP was asked to submit following requisite documents as under :

1.Dimensioned layout plan of the R& R Colony including all its allied units, ,road layout, open area, drain, Retaining wall, Alignment & details of Hume pipe laying , WTP, STP, Septic Tanks etc on a proper coordinate system (all units with coordinates, dimensions & details) superimposed on the Contour plan in A0 size to assess Earthwork in Excavation & Site levelling Quantities. Location of RWH Pits with proper coordinate in the drawing to be indicated.

All connecting dimensions, overall dimensions from boundary wall to buildings/units to boundary wall need to indicated . .

2.The FTL(Finished Terrace Level of the area , road levels, Invert levels of Hume pipes etc to be indicated on the above drawing.. Dimensioned plan of various units & utilities ,each in A4 sheet to be furnished.

3. Layout plan of Boreholes plotted on proper coordinate system indicating the ground RLs & co-ordinates of all the Boreholes plotted on the Contour plan to examine if the coverage of entire project area has been there & also if Rock excavation ,if any., has taken place.

4. A few cross-sections through full length & full width showing units/ need to be submitted on a magnified scale in at least A0/A1 drawing. Cut & fill sections also for site levelling to be furnished showing clearly the depth of fill, original GL & FTL.

5. To furnish approved Township development plan, site layout plan indicating the location of all units, STP, UG Tank , Road & Drain layout, Sewer line etc. & Building plans of Individual Buildings & structures/units sanctioned by RMC, Ranchi wherein Building permission for the entire proposed built up area as mentioned in the project proposal has been obtained by RMC.

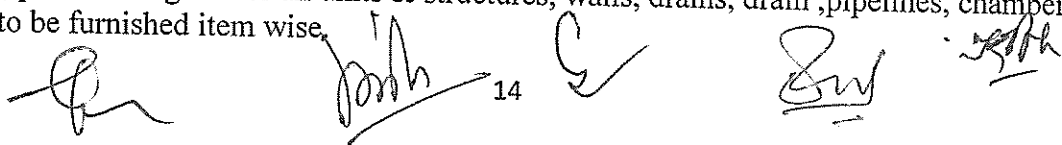
6..PP to confirm if the entire project on plot area of 236835.4m<sup>2</sup> is within RANCHI MUNICIPAL CORPORATION AREA. If not, a plan be submitted indicating the municipal boundary on the plot & balance area's jurisdiction of other urban local body or rural body..

7.Master Plan whether approved or not. .Information/documents to be furnished

8. NOC from CGWB for ground water withdrawal or Copy of application for permission for obtaining GW from CGWB . On page 18 , it is stated that during operation phase water requirement will be met either from Municipal Authority (Ranchi Municipal Corporation) or from Ground water after taking permission from CGWA, now since over 90% project is completed, The permission/application for the permission be furnished as there is no municipal water supply line available in the locality

9. Computational details of Earthwork in Excavation Quantities under the following heads:  
400 DUs, Other Amenity Buildings like School, Community center, shopping comp, WW, LCS etc, Retaining walls 460m, Hume pipe laying 5.35 kms, Completed Roadside drain 7.7 Kms, , Laying of Water supply DI Pipelines 5.5 km, Underground Reservoir-one, 46 Nos Feeder pillars, ,Water Treatment plant, Septic Tanks & Soakpits, , 275 nos Manholes for RWH, Rain Watyer Harvesting pits 15 nos, Chambers 164 nos for water supply ferrul & 215 nos for Sewerage Manholes, total= 379 Nos, Excavation for executed Road out of total scope of 53500m<sup>2</sup>, Earthwork Excavation Quantity for entire site leveling , any other major units(not identified above) with Excavation quantity of more than 100 m<sup>3</sup>

10. All Earthwork in various filling for the entire project, like area terracing, backfilling around foundation, plinth filling etc for all units & structures, walls, drains, drain ,pipelines, chambers, pipe laying etc to be furnished item wise.

 14

All substantiating documents for above Computation of Earth work like CUMMULATIVE EXECUTED QUANTITY OF EARTHWORK as on 18.09.2019 (copy of latest MB etc to be enclosed, copy of Technically sanctioned DPR showing all the Excavation quantities etc). Only computation or statement in absence of authentic proof will not be considered.

11: PP to furnish various techniques adopted for Green Building Concept. On page 70, it is mentioned that "All efforts will be taken to make the building in accordance with the green building concept by using various techniques."

12..It is observed that page 9 ,the question that "What are the quantities of earthwork involved in the construction activity-cutting, filling, reclamation etc during construction phase (Give details of the quantities of earthwork involved, transport of fill materials from outside the site etc.?)" has not been appropriately replied. Details to furnished.

13. Details Fire fighting equipment etc as per NBC & its adequacy & Protection measures from lightning etc as per BIS codes to be furnished .

#### [B] OTHER OBSERVATIONS :

1..On page 78, it is mentioned that "Overflow from last Recharge pit shall be connected to water Drain line. The arrangement provides appropriate protection to the site against flooding". It is observed that without examining the availability of a functional water drain line at project site to receive overflow from last recharge pit,, which presently is non-existent, Discharge of the Colony has been planned. it will cause water logging/ flooding in the neighborhood of the project site. A complete realistic report, therefore, needs to be submitted for proper project appraisal after proper design , survey & investigation. In the form of inclusion of a chapter.

2.UNDER Clause 8 (5) on page 78, it is mentioned that "The entire site is provided with extensive planned underground drainage system with gravity connections to the Recharge pits. Overflow from last Recharge pit shall be connected to water Drain line . But , On page 21, a major contradiction has been observed wherein it is mentioned that a network of "storm water drain" is proposed all along the direction along the main roads and cross roads. All storm water drains will be "covered with RC slabs" so as to prevent the entry of soil and dust. Storm water collected through storm water drains and discharged into existing Storm Water Drains. Storm water drains will be constructed on all the edges of roads.

There has to be a clarity whether the project has been designed with Underground Pipe Drainage network or OPEN DRAINS WITH CONCRETE COVERS along all roads & cross-roads, Extract of BOQ is required to substantiate the correct statement.

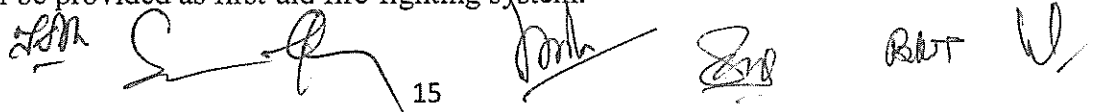
3.On page no 21, there is a statement that "For basement parking, the rainwater from ramps will be collected in the basement storm water storage tank. This water will be pumped out to the nearest external storm water drain." Inclusion of this irrelevant statement is irresponsible & may be explained.

4.On page-3, entirely misleading information about the project is stated which states that approximately 20% of construction activities have been done on the site.

5.On page 61, provision of Rs15 lakhs for Sewage Treatment Plant for one STP of 2400 KL capacity appears too low, to be checked.

6. On page 83, the following statement needs to be checked "Fire protection for these rooms will be done by portable extinguishers of suitable type and size. Suitable number & type of portable extinguishers will be provided as first-aid fire-fighting system."

15



7. Serious inconsistencies have been observed in the following statements in the FORM 1A submitted by PP as these appear to refer to some other projects :

- i. On page 70 , under clause 6, DETAILS OF BUILDING BLOCK mentions “This proposed Assembly Building project having following blocks”
- ii. On page 72 under clause 7, WATER REQUIREMENT, SUPPLY AND DISTRIBUTION, it mentions that Water will be collected in Raw Water Reservoir and after Chlorination, Treatment in WTP, it will be sent to the consumer points of Assembly Building through Hydro-pneumatic system.
- iii. On page 79, under clause 10 POWER REQUIREMENT, it is mentioned that “The Electrical design for Assembly Building has been conceptualized from the very inception of the project along with the architectural and structural design concept as an integrated whole”.
- iv. On page 80, under clause 10 POWER REQUIREMENT, it is mentioned under sub-head “Solar System” that the Solar system to be used for area lighting .....& accordingly centralised photo electric cell panel shall be designed for this purpose and PV panel to be installed at roof of Assembly building.”
- v. On page 80, under clause 11 SOLID WASTE GENERATION AND MANAGEMENT, it is mentioned that the project will adopt a systematic approach for solid waste collection .The domestic solid waste will be generated by the occupants of the Assembly building, pertains to the two categories,)
- vi. On page 83 under clause 12 FIRE FIGHTING SYSTEM, it is mentioned that Firefighting installations will be designed, Fire-fighting installations as proposed in all blocks of Assembly Buildings are as follows: • Fire Hydrant with hoses ...”

8. On page 43, under “Passive Solar Design Consideration”, following consideration adopted for passive solar design of the buildings in the proposed project has been mentioned. Now , when the project is almost complete, the statements mentioned below need to be realistic & conforming to the actual construction undertaken. In view of this the following may be corrected:

- Maximum openings would be towards the north to get natural light that will not unduly heat up the interiors.
- Least opening would be provided towards southern and western walls so as to cut out the hot incident rays of the sun.
- Windows provided would be shaded adequately by designing double layer glass glazing so that no direct rays of sun can come into the building.”

“Most of the external surface of the building will be designed in a way to have an air gap between the wall surface and the external skin. This should reduce the transmission of heat into the building as the heat would get dissipated into the air gap to an extent.”

On page 44 , ‘Glass panel will have maximum light transmission but low solar heat radiation. This will reduce quantity of heat inflow into the building. Single pane glass of 0.25 inches thickness with visible transmittance up to 85% day lighting may be used.’ Also stated on Page 44,

Under “Architectural features used in solar design include’: Residential building is North – South Oriented. North side never gets direct solar exposure. South side is easy to shade. Buildings have overhangs and terraces to achieve mutual shading ”, ON Pg 45,” There will be less numbers of openings on the west side and ore numbers of openings on south side & also Projections such as balconies are provided on the south direction such that summer sun is stopped and winter sun is let in

9. Revised Damage cost as furnished by the PP now is reproduced below:





|              |                            |   |                 |
|--------------|----------------------------|---|-----------------|
|              |                            | Tankers = $(50549.76/4) = 12637$ nos. ,<br>Cost of 1 Tanker load of water = Rs. 264 ( assumption at current bulk cost) ,<br>= Rs.0.33 Cr ii. Treatment cost of water borne diseases due to uncontrolled septage, defecation /oilgrease contamination etc. during construction stage) considering as lumpsum charges =sayRs. 0.05 Cr   |                 |
|              | Soil Environment           | Direct loss to soil environment as natural resource of ecosystem. Total vol. of soil excavated , hauled and stored at certain place = 6543.0 m <sup>3</sup> , fines generated during excavation and loading into dumpers and loss as water erosion during rains/monsoon at storage site = 10 % = 654.3m <sup>3</sup> , balance soil as material balance = 6543.0 - 654.3 = 5888.7 m <sup>3</sup> , Fines generated during restoration/backfilling =10% =588.87 m <sup>3</sup> . Total soil fines lost =(654.3+588.87) =1243.17 m <sup>3</sup> . No of dumper loads @ 4 m <sup>3</sup> = 311 nos, cost of 1 dumper load at current price = Rs. 3000.00, =3000 * 311 =Rs0.09 Cr. ii. Loss of soil nutrients as natural resource considering for 10 years of farming ( assumption) = 0.05 * 10 = 0.5Cr | 0.09<br>0.5     |
|              |                            | Total value of soil as natural resource , say   | 0.59            |
|              | Socio Economic Environment | As loss of agricultural crops( only single crop is assumed for simple calculations in absence of actual data.) i. Total Plot area = 236835.4 m <sup>2</sup> ii. Paddy production per Kharip season (Jharkhand Agriculture Data ) = 1361 Kg/Ha iii. Procurement price of paddy crop (Jharkhand Agriculture data 2018) = Rs.1750 per quintal iv. Total paddy production = 322.28 quintal Cost of paddy produced = 0.56 Cr Say Rs.0.50 C   | 0.50            |
| <b>Total</b> |                            |   | <b>3.83 Cr.</b> |

10 The revised Budgetary allocation furnished by PP shall be reviewed, as soon as the authentic informations, as sought above, from the PP is received.

11.Submissions of PP & his consultant on issues of Environmental impact and ecological damage is only partial and needs to be augmented further. Same is the case with natural resources and community ~~of~~ augmentation plan.

12.Time bound action plan to restore the ecological damages made, avoidance of environmental impact and natural resource and community augmentation plan to be implemented be provided.

On receipt of proper documents, SEAC will examine the case for appropriate decision.

9  
W, BKT, [Signature], [Signature], 18, [Signature], [Signature]

ii. **Damin Bhitha Stone Deposit of Sri Pradeep Kr. Keshari, Vill.: Damin Bhitha, Taluka : Mirzachowki, Dist. : Sahibganj (2.792 Ha).**

**(Proposal No. : SIA/JH/MIN/40846/2019)**

This is a Stone Mining Project with an area of 2.792 Ha [Plot No.- 613 (P), 615 (P), 621 (P)]. The latitude and longitude of the project site is 25° 14' 01.5646" N to 25° 14' 08.2070" N and 87° 32' 38.0652" E to 87° 32' 47.3410" E. The nearest railway station is Karamtola at a distance of 2.5 km and the nearest highway NH-80 is 2.5 km and nearest airport is Malda at a distance of 63 km . Total water requirement is 4.7 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 6,94,023.07 tonne

Probable Mineable Reserve : 3,56,092.02 tonne

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

|                      |   |                   |
|----------------------|---|-------------------|
| 1 <sup>st</sup> Year | : | 1,04,984.79 tonne |
| 2 <sup>nd</sup> Year | : | 1,04,993.05 tonne |
| 3 <sup>rd</sup> Year | : | 1,04,990.30 tonne |
| 4 <sup>th</sup> Year | : | 1,04,951.73 tonne |
| 5 <sup>th</sup> Year | : | 1,04,989.47 tonne |

The daily production as per Mine Plan is 350 tonne.

The indicated project cost is Rs 35.00 Lakh and a provision of Rs 5.50 Lakh has been indicated for Environment management and budget for CER is 1.00 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1657, dated 16.08.19 certified that the Udhwa Lake Bird Sanctuary is 35615 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Sahibganj Division vide memo no. 887, dated 14.05.18 certified that the distance of nearest forest is 255 m from proposed project site.

The CO, Mandro vide memo no. 628, dated 09.07.19 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. 1871, dated 28.09.18 certified that no other lease is exists within 500 m radius from proposed project site.

The DSR of the district available in the SEIAA / SEAC office, is not encompassing the project site.

Thus, the M.S, SEAC will get clarification from the DC, Sahibganj on this issue. Once the reply is received, SEAC would consider. In the meantime PP was advised to collect the above information from their level also.

**On receipt of proper document, SEAC will examine the case for appropriate decision.**

iii. **Kulbhanga Stone Deposit of M/s Maa Kamakhya Enterprises, Vill. : Kulbhanga, Taluka : Jirwabari (O.P), Dist. : Sahibganj (2.83 Ha).**

**(Proposal No. : SIA/JH/MIN/40690/2019)**

This is a Stone Mining Project with an area of 2.83 Ha [Plot No.- 5 (P), 6, 10]. The latitude and longitude of the project site is 25° 12' 45.59" N to 25° 12' 52.0" N and 87° 34' 48.95" E to 87° 34'

*[Handwritten signatures and initials]*

57.60" E. The nearest railway station is Karamtola at a distance of 5 km and the nearest highway NH-88 is 4. km and nearest airport is Malda at a distance of 59 km . Total water requirement is 5.7 KLD. Water will be taken from private tanker..

The details of mine capacity as per Approved Mining Plan are

|                           |   |                   |
|---------------------------|---|-------------------|
| Proved Mineable Reserve   | : | 5,48,245 tonne    |
| Probable Mineable Reserve | : | 4,12,123.21 tonne |

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

|                      |   |                 |
|----------------------|---|-----------------|
| 1 <sup>st</sup> Year | : | 95,849.21 tonne |
| 2 <sup>nd</sup> Year | : | 95,996.87 tonne |
| 3 <sup>rd</sup> Year | : | 95,750.03 tonne |
| 4 <sup>th</sup> Year | : | 95,874.00 tonne |
| 5 <sup>th</sup> Year | : | 95,984.20 tonne |

The daily production as per Mine Plan is 320 tonne.

The indicated project cost is Rs 30.00 Lakh and a provision of Rs 4.00 Lakh has been indicated for Environment management and budget for CER is 1.00 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1659, dated 16.08.19 certified that the Udhwa Lake Bird Sanctuary is 31455 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Sahibganj Division vide memo no. 1612, dated 25.08.18 certified that the distance of nearest forest is 255 m from proposed project site.

The CO, Mandro vide memo no. 626, dated 09.07.19 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. 1870, dated 28.09.18 certified that no other lease is exists within 500 m radius from proposed project site.

The DSR of the district available in the SEIAA / SEAC office, is not encompassing the project site.

Thus, the M.S, SEAC will get clarification from the DC, Sahibganj on this issue. Once the reply is received, SEAC would consider. In the meantime PP was advised to collect the above information from their level also.

**On receipt of proper document, SEAC will examine the case for appropriate decision.**

iv. **Karnodih Stone Deposit of Sri Saroj Kr. Mehta, Vill. : Karnodih, Tehsil :Saria, Dist. : Giridih (1.133 ha).**

**(Proposal No. : SIA/JH/MIN/37985/2019)**

This is a Stone Mining Project with an area of 1.133 Ha [Khata no. 24 & 34, Plot No.- 1319 (P), 1342 (P), 1367, 1417 (P) & 1548 (P)]. The latitude and longitude of the project site is 24° 12' 36.13" N to 24° 12' 39.1" N and 85° 47' 45.59" E to 85° 47' 51.04" E. The nearest railway station is Chaube at a distance of 3.57 km and the nearest highway is 13.0 km and nearest airport is Giridih at a distance of 50 km . Total water requirement is 4.6 KLD. Water will be taken from nearby village.

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The details of mine capacity as per Approved Mining Plan are

|                           |   |                |
|---------------------------|---|----------------|
| Proved Mineable Reserve   | : | 1,03,470 tonne |
| Probable Mineable Reserve | : | 1,21,476 tonne |

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

|                      |   |              |
|----------------------|---|--------------|
| 1 <sup>st</sup> Year | : | 22,509 tonne |
| 2 <sup>nd</sup> Year | : | 22,491 tonne |
| 3 <sup>rd</sup> Year | : | 22,546 tonne |
| 4 <sup>th</sup> Year | : | 22,477 tonne |
| 5 <sup>th</sup> Year | : | 22,460 tonne |

The daily production as per Form I is 75 tonne.

The indicated project cost is Rs 30.00 Lakh , a provision of Rs 8.70 Lakh has been indicated for Environment management and budget for CER is 1.00 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1111, dated 10.06.19 certified that the Udhwa Lake Bird Sanctuary is 28850m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Hazaribagh, East Division vide letter no. 4487, dated 13.12.16 certified that the distance of nearest forest is 272 m from proposed project site.

The CO, Saria vide letter no. 865, dated 22.11.16 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Giridih vide memo no. 345, dated 27.03.19 certified that no other lease is exists within 500 m radius from proposed project site.

The DC, Giridih (letter no. 806, dated 19.08.19) requesting Member Secretary, SEAC to incorporate the details of the project in DSR.

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 **Karnodih Stone Deposit of Sri Saroj Kr. Mehta, Vill. : Karnodih, Tehsil :Saria, Dist. : Giridih (1.133 ha)** be recommended for consideration of SEIAA for grant of EC, in the light of DC, Giridih aforesaid letter dated 19.08.19. The various conditions for grant of EC is enclosed as **Annexure - I**.

v. **Jitpur Stone Mine of M/s Ran Enterprises (Prop. : Sri Amit Kumar), Vill. : Jitpur, P.O. : Dharampur, Thana : Gopikandar, Dist. : Dumka (2.65 Ha).**

(Proposal No. : SIA/JH/MIN/39835/2019)

This is a Stone Mining Project with an area of 2.65 Ha [Khata no. 15, 10 & 13, Plot No.- 28, 27, 34, 33, 67, 26, 25]. The latitude and longitude of the project site is 24° 65' 57.40" N to 24° 65' 50.01" N and 87° 31' 07.08" E to 87° 31' 02.08" E. The nearest railway station is Dumka at a distance of 32.8 km and nearest airport is Ranchi at a distance of 256 km . Total water requirement is 11.22 KLD (Drinking & domestic = 2.16 KLD, Afforestation / Green belt = 2.89 KLD, Dust Suppression

= 6.17 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Rampur village, Tube Well & nearest Bansloi Nadi..

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 8,85,880.8 tonne

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

|                      |   |                |
|----------------------|---|----------------|
| 1 <sup>st</sup> Year | : | 1,76,774 tonne |
| 2 <sup>nd</sup> Year | : | 1,64,398 tonne |
| 3 <sup>rd</sup> Year | : | 1,52,410 tonne |
| 4 <sup>th</sup> Year | : | 1,40,810 tonne |
| 5 <sup>th</sup> Year | : | 94,041 tonne   |

The daily production as per Mine Plan is 218.24 tonne.

The indicated project cost is Rs 57.21 Lakh and a provision of Rs 8.10 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1631, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 65027 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 1801, dated 29.05.19 certified that the distance of notified forest is 1416 m from proposed project site.

The CO, Gopikandar vide letter no. 161, dated 07.06.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

DMO, Dumka vide memo no. 1064, dated 09.06.17 certified that no other lease is exists within 500 m radius from proposed project site.

Regarding the DSR of the project site it is observed that in the submitted DSR of the district Jitpur Mauza as a whole exists the recommended for issuance of EC. Letter of Intent issued by the DMO approved by the DC mention the plot no. of the project.

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 **Jitpur Stone Mine of M/s Ran Enterprises (Prop. : Sri Amit Kumar), Vill. : Jitpur, P.O. : Dharampur, Thana : Gopikandar, Dist. : Dumka (2.65 Ha)** be recommended for consideration of SEIAA for grant of EC, ~~(in the light of DC, Giridih aforesaid letter dated 19.08.19)~~. The various conditions for grant of EC is enclosed as **Annexure - I**.

vi. **Pokharia Stone Mine of Sri Pratyusdhar Jha, Vill. : Pokharia, P.O. : Benagaria, P.S. : Shikaripara, Dist. : Dumka (2.31 Ha).**

(Proposal No. : SIA/JH/MIN/40679/2019)

This is a Stone Mining Project with an area of 2.31 Ha [Khata no. 03, 36 & 31, Plot No.- 544 (P), 545 (P), 546 - 551, 552 (P), 553 (P) ]. The latitude and longitude of the project site is 24° 12' 14.8" N to 24° 12' 07.6" N and 87° 33' 41.3" E to 87° 33' 35.7" E. The nearest railway station is Pinargaria at a distance of 8.26 km and nearest airport is Ranchi at a distance of 249 km . Total water requirement is 3.66 KLD (Drinking & domestic = 1.93 KLD, Afforestation / Green belt =

0.5 KLD, Dust Suppression = 0.97 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Pokharia village, Tube Well & nearest Brahmani Nadi..

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 18,29,456 tonne

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

|                      |   |                  |
|----------------------|---|------------------|
| 1 <sup>st</sup> Year | : | 1,49,153.4 tonne |
| 2 <sup>nd</sup> Year | : | 1,35,594 tonne   |
| 3 <sup>rd</sup> Year | : | 2,32,842.6 tonne |
| 4 <sup>th</sup> Year | : | 1,85,603.4 tonne |
| 5 <sup>th</sup> Year | : | 1,43,029.8 tonne |

The daily production as per Form-I is 776.14 tonne.

The indicated project cost is Rs 41.01 Lakh , a provision of Rs 7.30 Lakh has been indicated for Environment management and budget for CER is 3.10 Lakh..

DFO, Wildlife Hazaribagh vide letter no. 1643, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 88510 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 1265, dated 13.04.17 certified that the distance of notified forest is 1466 m from proposed project site.

The CO, Shikaripara vide letter no. 730, dated 01.08.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Dumka vide memo no. 2115, dated 20.11.17 certified that no other lease is exists within 500 m radius from proposed project site.

Regarding the DSR of the project site it is observed that in the submitted DSR of the district Jitpur Mauza as a whole exists the recommended for issuance of EC. Letter of Intent issued by the DMO approved by the DC mention the plot no. of the project.

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 **Pokharia Stone Mine of Sri Pratyusdhar Jha, Vill. : Pokharia, P.O. : Benagaria, P.S. : Shikaripara, Dist. : Dumka (2.31 Ha)** be recommended for consideration of SEIAA for grant of EC, ~~(in the light of DC, Giridih aforesaid letter dated 19.08.19)~~. The various conditions for grant of EC is enclosed as **Annexure - I**.

vii. **Bahirgram Stone Mine of M/s Rohit Rajdev & Mohit Rajdev, Vill. : Bahirgram, P.O. & P.S. : Pakur, Dist. : Pakur (0.44 Ha).**

**(Proposal No. : SIA/JH/MIN/38115/2019)**

This is a Stone Mining Project with an area of 0.44 Ha [Khata no. 377, Plot No.- 1033 ]. The latitude and longitude of the project site is 24° 36' 9.85" N to 24° 36' 11.60" N and 87° 51' 19.98" E to 87° 51' 22.57" E. The nearest railway station is Pakur at a distance of 5.00 km and nearest airport is Ranchi at a distance of 300 km . Total water requirement is 3.62 KLD (Drinking & domestic =

0.54 KLD, Afforestation / Green belt = 0.09 KLD, Dust Suppression = 2.99 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Bahigram Tube Well.

The details of mine capacity as per Approved Mining Plan are

|                           |   |                |
|---------------------------|---|----------------|
| Proved Mineable Reserve   | : | 1,01,335 tonne |
| Probable Mineable Reserve | : | 8456 tonne     |

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

|                      |   |              |
|----------------------|---|--------------|
| 1 <sup>st</sup> Year | : | 17,525 tonne |
| 2 <sup>nd</sup> Year | : | 19,619 tonne |
| 3 <sup>rd</sup> Year | : | 19,527 tonne |
| 4 <sup>th</sup> Year | : | 20,121 tonne |
| 5 <sup>th</sup> Year | : | 19,518 tonne |

The daily production as per Form-I is 67.07 tonne.

The indicated project cost is Rs 19.91 Lakh , a provision of Rs 4.67 Lakh has been indicated for Environment management and budget for CER is .38 Lakh..

DFO, Wildlife Hazaribagh vide letter no. 1638, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 40105 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 1556, dated 07.10.16 certified that the distance of notified forest is more than 250 m from proposed project site.

The CO, Pakur vide letter no. 1389, dated 01.09.18 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. 2426, dated 02.11.16 certified that no other lease is exists within 500 m radius from proposed project site.

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 Bahirgram Stone Mine of M/s Rohit Rajdev & Mohit Rajdev, Vill. : Bahirgram, P.O. & P.S. : Pakur, Dist. : Pakur (0.44 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

viii. **Aktadih Stone Mine Project of M/s Dilip Buildcon Ltd, Vill. : Aktadih, P.O. : Bagodar, Dist. : Giridih (0.80 ha).**

**(Proposal No. : SIA/JH/MIN/30891/2019)**

This is a Stone Mining Project with an area of 0.80 Ha [Khata no. 313, Plot No.- 199]. The latitude and longitude of the project site is 24° 7' 25.63" N to 24° 7' 19.59" N and 85° 43' 25.21" E to 85° 43' 22.79" E. The nearest railway station is Chaube at a distance of 15 km and the nearest airport is Ranchi at a distance of 98 km . Total water requirement is about 1.22 KLD (Drinking & domestic : 0.67 KLD, Afforestation / Greenbelt : 0.26 KLD & Dust suppression : 0.29 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Aktadih tube well & nearest nadi 3.25 km in SE direction. As soon as mine void is former water for greenbelt 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 indicated project cost is Rs 259.29 Lakh and a provision of Rs 4.75 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineral Reserve : 74,400 cum

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

|                      |   |            |
|----------------------|---|------------|
| 1 <sup>st</sup> Year | : | 42,240 cum |
| 2 <sup>nd</sup> Year | : | Nil        |
| 3 <sup>rd</sup> Year | : | Nil        |

The daily production as per Mine Plan is 140.80 cum.

DFO, Hazaribagh East vide letter no. 4076, dated - 15.10.18 certified that the distance of notified forest is 370 m from proposed project site & DFO, Wildlife Hazaribagh vide letter no. 561, dated - 19.03.19 certified that the distance of battery point from Notified Wildlife Sanctuary Hazaribagh is 20900 m and not within 10 km from National Park, Bio-Diversity & Wildlife Sanctuary and not proposed project situated in any Eco Sensitive Zone from proposed project site.

The CO, Bagodar vide letter no. 847, dated - 09.10.18 has mentioned the plot no. of the project site is not recorded as Jangal Jhari in R.S. Khatyan.

DMO, Giridih vide memo no. 63, dated 19.01.19 certified that any other lease is not within 500 m radius from proposed project site, wherein this site is not available.

The DC, Giridih (letter no. 806, dated 19.08.19) requesting Member Secretary, SEAC to incorporate the details of the project in DSR.

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 **Aktadih Stone Mine Project of M/s Dilip Buildcon Ltd, Vill. : Aktadih, P.O. : Bagodar, Dist. : Giridih (0.80 ha)** be recommended for consideration of SEIAA for grant of EC, in the light of DC, Giridih aforesaid letter dated 19.08.19. The various conditions for grant of EC is enclosed as **Annexure - I**.

ix. **Chino Stone Mine Project of M/s Dilip Buildcon Ltd., Vill. : Chino, P.O : Dumri, Dist. : Giridih (0.67 ha).**

**(Proposal No. : SIA/JH/MIN/38294/2019)**

This is a Stone Mining Project with an area of 0.67 Ha [Plot No.-1990, 1987, 2028 (P), 2029, 2030, 2031, 2032, 2033, 2034, 2035 (P), 2036 (P), 2044 (P), 1950, 1953)]. The latitude and longitude of the project site is 24° 0' 48.37" N to 24° 0' 44.01" N and 86° 0' 18.69" E to 86° 0' 16.83" E. The expected life of mine is 3.42 years. The nearest railway station is Parasnath a distance of 4.40 km and the nearest airport is Ranchi at a distance of 105 km. Total water requirement is about 1.23 KLD (Drinking & Domestic use : 0.72 KLD, Dust Suppression : 0.29 KLD & Green Belt development / Afforestation : 0.22 KLD, will be taken from nearby village like Chino, tube well & nearest Kulgo Nadi.

The indicated project cost is Rs 301.50 Lakh and a provision of Rs 6 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineral Reserve : 85,201 cum

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

|                      |   |            |
|----------------------|---|------------|
| 1 <sup>st</sup> Year | : | 26,640 cum |
| 2 <sup>nd</sup> Year | : | 25,752 cum |
| 3 <sup>rd</sup> Year | : | 22,200 cum |
| 4 <sup>th</sup> Year | : | Nil        |
| 5 <sup>th</sup> Year | : | Nil        |

The daily production as per Form I is 82.88 cum.

DFO, Giridih East vide letter no. 514, dated - 11.02.19 certified that the distance of notified forest is 250.2 m from battery point of proposed project site.

DFO, Hazaribagh Wildlife vide letter no. 1113, dated - 10.06.19 certified that the distance of Parasnath Wildlife Sanctuary is 10,080 m from battery point of proposed project site & not within 10 km from National Park, Bio-Diversity & Wildlife Sanctuary and proposed project is not situated in any Eco Sensitive Zone.

The CO, Dumri (Giridih) vide letter no. 153, dated - 15.02.19 has mentioned that the proposed site is not recorded as Jangal Jhari in Khatiyani.

DMO, Giridih vide memo no. 509, dated 11.06.19 has certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC, Giridih (letter no. 806, dated 19.08.19) requesting Member Secretary, SEAC to incorporate the details of the project in DSR.

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 **Chino Stone Mine Project of M/s Dilip Buildcon Ltd., Vill. : Chino, P.O : Dumri, Dist. : Giridih (0.67 ha)** be recommended for consideration of SEIAA for grant of EC, in the light of DC, Giridih aforesaid letter dated 19.08.19. The various conditions for grant of EC is enclosed as Annexure - I.

Day 2 & 3 : September 19 & 20, 2019 [Thursday & Friday]

## A. Consideration of Proposals

- i. **Jonkmari Stone Deposit of M/s Kashi Builders & Services Pvt. Ltd., Vill. : Jonkmari, P.S. : Jirwawadi, Dist. : Sahibganj (2.84 ha).**

(Proposal No. : SIA/JH/MIN/40002/2019)

This is a Stone Mining Project with an area of 2.84 Ha [J.B. No. 15, Plot No. 55 (P), J.B. No. 33, Plot no. 52 (P)]. The latitude and longitude of the project site is 25° 14' 23.12" N to 25° 14' 32.34" N and 87° 35' 06.30" E to 87° 35' 12.94" E. The nearest railway station is Karamtola a distance of

W. R. K. S. 26 S. S. S.

14 km and the nearest airport is Kolkata at a distance of 313 km. Total water requirement is about 15.5 KLD (Drinking + Dust Suppression + Green Belt, will be taken from nearby village (dug well).

The indicated project cost is Rs 36 Lakh and a provision of Rs 3.32 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

|                          |   |                |
|--------------------------|---|----------------|
| Proved Mineral Reserve   | : | 9,16,278 tonne |
| Probable Mineral Reserve | : | 56880 tonne    |

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

|                      |   |              |
|----------------------|---|--------------|
| 1 <sup>st</sup> Year | : | 97,392 tonne |
| 2 <sup>nd</sup> Year | : | 97,179 tonne |
| 3 <sup>rd</sup> Year | : | 97,428 tonne |
| 4 <sup>th</sup> Year | : | 97,500 tonne |
| 5 <sup>th</sup> Year | : | 97,371 tonne |

The daily production as per Form I is 325 tonne.

DFO, Wildlife Hazaribagh vide letter no. 1547, dated 03.08.19 certified that the Udhwa Lake Bird Sanctuary is 33220 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Sahebganj Division vide memo no. 1435, dated 28.07.18 certified that the distance of notified forest is more than 255 m from proposed project site.

The CO, Mandro vide memo no.529, dated - 18.06.19 has mentioned that the proposed site is not recorded as Jangal Jhari in Khatiyani & Register II.

DMO, Sahebganj vide memo no. 833, dated 29.06.2019 has certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

Regarding the DSR of the project site it is observed that in the submitted DSR of the district Mandro Block as a whole exists the recommended for issuance of EC. Letter of Intent issued by the DMO approved by the DC mention the plot no. of the project.

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 **Jonkmari Stone Deposit of M/s Kashi Builders & Services Pvt. Ltd., Vill. : Jonkmari, P.S. : Jirwayadi, Dist. : Sahebganj (2.84 ha)** be recommended for consideration of SEIAA for grant of EC, ~~(in the light of DC, Giridih aforesaid letter dated 19.08.19)~~ The various conditions for grant of EC is enclosed as **Annexure - I**.

ii. **Expansion & Modernization Project of M/s Mongia Steel Ltd., Mouza : Dandidih (Burhiadih), Tehsil & Dist. : Giridih.**

(Proposal No. : SIA/JH/IND/36503/2019)

MONGIA STEEL LIMITED proposes for Expansion & Modernization Project for Final Configuration of Induction Furnaces 4x15T + 3x 20T (Billets- 396000 TPA) with Slag Crusher- 66000 TPA, TMT Bar Mill 1 - 79200 TPA, TMT Bar Mill 2 - 198000 TPA, Strip

Mill – 99000 TPA from existing plant of – M.S. Billets 90000 TPA, TMT Bars Mill 1-99000 TPA & Producer Gas Plant 9000 Nm<sup>3</sup>/hr.

Environment Clearance for the existing unit was granted by SEIAA, Jharkhand vide letter No. EC/SEIAA/2014-2015/569/2014/310 dated 13.12.2018 and subsequent CTE granted by JSPCB vide No JSPCB/HO/RNC/CTE-3579450/2019/294 dated 01.05.2019 for merging both units. CTO obtained from JSPCB vide Ref No. JSPCB/HO/RNC/CTO-5229976/2019/1232, dated 02.07.2019.

Expansion is proposed within the existing premises located at khata no. : 57, 53, 58, 50, 41, 45, plot no. : 1429, 1430, 1447, 1448, 1449, 1450, 1452, 1405, 1406, 1409, 1410, 1411, 1444, 1446, 1403, 1374, 1407, 1373, 1404, Village- Dandidih, PO- Burhiadih, District-Giridih in the state of Jharkhand over an area of 31.29 acres (12.67 ha.). The Latitude and Longitude of the proposed site is 24° 09' 29.50" N and 86° 19' 51.08" E respectively.

The raw materials requirement after expansion will be: Sponge Iron - 316800 TPA, Pig Iron - 99000 TPA, Scrap - 47520 TPA and Ferro Alloys (SiMn/FeSi) - 792 TPA for the billets production. The hot billets will be directly charged in the rolling mill for production of TMT Bars/Strips etc. Existing Re-heating Furnace and Producer Gas Plant will be dismantled and removed. No coal or furnace oil will be used as fuel in the plant after expansion.

The total water requirement for the project after expansion is estimated to be 120 KLD which will be sourced through ground water. A total of 40 MVA power will be required for the project which will be sourced from DVC.

Different types of solid waste will be generated like Induction Furnace Slag – 28380 TPA, Mill scale – 5260 TPA, Ash & Bag filter dust – 2850 (max.). It will be either re-used or supplied to other plants for end use. There is no hazardous waste envisaged from the plant except for used oil (approx. 400 lit/year) from equipment, which is saleable to the registered recyclers in the market.

Total project cost after expansion/modernization of the plant is envisaged as Rs. 12248.00 Lacs.

DFO, Wildlife Hazaribagh vide letter no. 1396, dated 20.07.19 certified that the Udhwa Wildlife Sanctuary is 24048 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Giridih East Division vide letter no. 1434, dated 18.06.18 certified that the distance of notified forest is more than 2699.34 m from proposed project site.

The CO, Giridih vide memo no.2622, dated - 10.09.18 has mentioned that the proposed site is not recorded as Jangal Jhari.

PP & consultant presented the case with all details of the new technology to adopted along with reduction of pollutant emission. The public hearing was held on 26.03.2017 which is below 3 years as per MoEF&CC OM no. J-11013/41/2006-IA-II (I)(Part), dated 29.08.2017 & as such PP requested for exemption of the same.

SEAC discussed the proposal & suggested to submit an undertaking of following the new technology. The public hearing as well as EC compliance, CTO / CTE compliance discussed & in view of the MoEF&CC OM dated 29.08.2017 agreed to issue the ToR without Public Hearing.

PP has submitted the said document vide letter no. 02, dated 19.09.2019 which states that "As per discussions in the SEAC and suggestions the unit has committed to withdraw and dismantle their

existing re-heating furnace and producer gas plant. Also in the proposed future expansion only direct charging of hot billets for rolling will be done and no use of coal in the plant.

The proposed process flow is envisaged as below –

| Section      | Technology                        | Process flow   |
|--------------|-----------------------------------|--|
| SMS Unit     | Induction Furnace (IF)& CCM       | Feeding of RM → Melting in IF (adding alloys as per requirement) → Metal in Liquid form → casting & feeding of hot billets to rolling mill → or dispatch of cold billets.<br>Other outputs : Slag from Induction Furnace |
| Rolling Mill | Direct Rolling of hot billets     | Feeding of hot billets → roughing strands → rolling → cutting & bundle → dispatch<br>Other outputs : Mill scale from Rolling   |
| Slag Crusher | Crushing of slag & Metal recovery | Feeding of Slag → Primary crusher → Screening → Metal recovery in magnetic separator → disposal of crushed slag  |

The proposed process flow is envisaged below :

**Reduction in Energy & Emission :**

The reduction in energy consumption due to change in technology is envisaged as :

Coal utilization envisaged as per previous proposal = 27720 TPA ~ 84 TPD

Average GCV of coal (with FC – 45-48%) = 4000 Kcal/kg

Net energy saving = 336000000 Kcal /day ~3.36 x 10<sup>8</sup> Kcal/day.

Also average CO<sub>2</sub> emission reduction due to not using 27720 TPA of coal (with FC – 45%) in the project is envisaged as 1.86 tCO<sub>2</sub>/T of coal. Thus average emission reduction of CO<sub>2</sub> may be 51559.2 tCO<sub>2</sub>/year.

**Reduction in water consumption :**

The withdrawal and dismantling of Re-heating furnace and produce gas plant from the unit will also lead to reduction of approx.. 9.0 KLD of process water utilization.

The final configuration of the Plant will be:

| Plant         | Existing installed Units as per EC dated 13.12.2018 |              | Proposed (Total after the proposed expansion) |                |              |
|---------------|---|--------------|---|----------------|--------------|
|               | Unit  | Capacity TPA | Unit  | Operation Days | Capacity TPA |
| Steel Melting |   |              | 2x15 Ton                                      |                |              |

|  |           |                            |  |     |                                       |
|--|-----------|----------------------------|--|-----|---------------------------------------|
| Shop Induction Furnace & Continuous Casting Machine (CCM)  | 2x15 Tons | 300 TPD (90000 TPA)        | (Existing)<br>2x15 T (New)<br>3 x 20 T (New) | 330 | 996,000                               |
| Producer Gas plant (To be dismantled and removed)          | 1         | 9,000 Nm <sup>3</sup> /hr- | -  | -   | -                                     |
| Reheating Furnace (To be dismantled and removed)           | 1x30 TPH  | 90000                      | -  | -   | -                                     |
| TMT Bar Mill - 1   | 240 TPD   | 72000 TPA                  | 240 TPD                                      | 330 | 79200                                 |
| TMT Bar Mill - 2   | -         | -                          | 600 TPD                                      | 330 | 198000                                |
| Strips Mill (Pipes, shutter strips, angles, channels etc.) | 60 TPD    | 18000 TPA                  | 300 TPD                                      | 330 | 99000                                 |
| Slag Crusher Unit  | -         | -                          | 2 x 100 TPD                                  | 330 | 66000 TPA (Metal Recovery - 3300 TPA) |

Finally PP accepted that all other relevant details pertaining to the project will be provided in EIA / EMP as per ToR.

**Sri Y. K. Singh, Member, SEAC comment :**

The proposed expansion mentioned in the project is more than 500% of the earlier project. The earlier Public Hearing was conducted for only 20% of the proposed capacity. The measures mentioned by the PP are not appropriate for the proposal 500% expansion. Moreover induction furnaces are highly prone to accidents and the hazard risk for the adjoining population will multiply. Hence fresh Public Hearing for this more than 500% proposed expansion is must.

The PP has also mentioned in the proposal that M/s Santpuria Alloy is its sister concern against which Govt. revenue regarding violation case penalty has not been realized so far in spite of SEAC's earlier resolution.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meeting held during 18-20.09.19 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study. The ToR points are enclosed as **Annexure - II**.

- iii. **Karmatand Stone Deposit of Sri Prabhash Anand, Vill. : Karmatand, Thana : Gandey, Dist. : Giridih (1.097 Ha).**

**(Proposal No. : SIA/JH/MIN/38282/2019)**

This is a Stone Mining Project with an area of 1.097 Ha [Khata no. 03, Plot No.-333 (P), 334, 336 (P)]. The latitude and longitude of the project site is 24° 11' 44.06" N to 24° 11' 49.40" N and 86°

*W. B. S. T. S. 30*

17.20" E to 86° 28' 22.40" E. The nearest railway station is Maheshmunda a distance of 9 km. Total water requirement is about 2.50 KLD (Domestic use : 0.5 KLD, Dust Suppression : 1.00 KLD & Green Belt : 1.00 KLD ) from nearby water sources.

The indicated project cost is Rs 26.45 Lakh and a provision of Rs 0.90 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

|                           |   |                |
|---------------------------|---|----------------|
| Proved Mineable Reserve   | : | 2,39,902 tonne |
| Probable Mineable Reserve | : | 23,328 tonne   |

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

|                      |   |              |
|----------------------|---|--------------|
| 1 <sup>st</sup> Year | : | 25,041 tonne |
| 2 <sup>nd</sup> Year | : | 26,037 tonne |
| 3 <sup>rd</sup> Year | : | 27,095 tonne |
| 4 <sup>th</sup> Year | : | 26,572 tonne |
| 5 <sup>th</sup> Year | : | 23,219 tonne |

The daily production as per Form-I is 90 tonne.

DFO, Giridih East vide letter no. 267, dated - 01.02.18 certified that the distance of notified forest is 255 m from proposed project site.

DFO, Wildlife Hazaribagh vide letter no. 1448, dated 26.07.19 certified that the Udhwa Wildlife Sanctuary is 37600 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, Gandey (Giridih) vide letter no. 1086, dated - 08.12.17 has mentioned that the proposed site is not recorded as Jangal Jhari in Khatiyon.

DMO, Giridih vide memo no. 453, dated 19.03.2018 has certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC, Giridih (letter no. 806, dated 19.08.19) requesting Member Secretary, SEAC to incorporate the details of the project in DSR.

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 **Karmatand Stone Deposit of Sri Prabhush Anand, Vill. : Karmatand, Thana : Gandey, Dist. : Giridih (1.097 Ha)** be recommended for consideration of SEIAA for grant of EC, in the light of DC, Giridih aforesaid letter dated 19.08.19. The various conditions for grant of EC is enclosed as **Annexure - I**.

iv. **Kusum Ghati Stone Mine of M/s Vishnu Stone Enterprises, Vill. : Kusumghati, Thana : Shikaripara, Dist. : Dumka (1.84 Ha).**

(Proposal No. : SIA/JH/MIN/37978/2019)

This is a Stone Mining Project with an area of 1.84 Ha [Khata no. 3, 4, 12, 14, Plot No.- 272 (P), 273, 387, 388, 392, 393, 402, 403, 404, 407, 408 & 415 (P)]. The latitude and longitude of the project site is 24° 11' 41.7" N to 24° 11' 48.8" N and 87° 32' 41.6" E to 87° 32' 47.7" E. The nearest

railway station is Pinargaria a distance of 18 km and nearest airport is Ranchi a distance of 252 km. Total water requirement is about 1.67 KLD (Drinking & Domestic use : 1.12 KLD, Dust Suppression : 0.27 KLD & Afforestation / Green Belt : 0.28 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Chino, Tube Well and nearest Brahmani river.

The indicated project cost is Rs 19.66 Lakh and a provision of Rs 4.30 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

|                          |   |                |
|--------------------------|---|----------------|
| Proved Mineral Reserve   | : | 9,59,156 tonne |
| Probable Mineral Reserve | : | 21,558 tonne   |

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

|                      |   |              |
|----------------------|---|--------------|
| 1 <sup>st</sup> Year | : | 98,333 tonne |
| 2 <sup>nd</sup> Year | : | 98,261 tonne |
| 3 <sup>rd</sup> Year | : | 98,073 tonne |
| 4 <sup>th</sup> Year | : | 98,411 tonne |
| 5 <sup>th</sup> Year | : | 98,572 tonne |

The daily production as per Form-I is 334.14 tonne.

DFO, Wildlife Hazaribagh vide letter no. 1630, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 89875 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, Shikaripara vide letter no. 501, dated - 11.06.19 has mentioned that the proposed site is not recorded as Jangal Jhari in R.S Khatyan & Register II.

DMO, Dumka vide memo no. 1898, dated 14.10.2017 has certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

DFO, Dumka Division vide letter no. 2464, dated 24.07.17 certified that the distance of notified forest is approximately 250 m from proposed project site.

As per SEIAA mandate for new mining project pre-requisite criteria for minimum distance from forest is 250 m for grant of EC. Thus a clarification is required from DFO, Dumka as to whether the project site is more than 250 m from forest or not.

SEIAA may thus consider the said project (Kusum Ghati Stone Mine of M/s Vishnu Stone Enterprises) provided the concerned DFO, Dumka certified that the project site is more than 250 m.

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 **Kusum Ghati Stone Mine of M/s Vishnu Stone Enterprises, Vill. : Kusumghati, Thana : Shikaripara, Dist. : Dumka (1.84 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

v. **Sidhpahari Stone Mine of Sri Ram Sevak Yadav, Vill. : Sidhpahari, P.S. : Hiranpur, Dist. : Pakur (1.66 Ha).**

(Proposal No. : SIA/JH/MIN/41066/2019)

This is a Stone Mining Project with an area of 1.66 Ha [Khata no. 17, 18, 15, Plot No.- 668 (P), 669 (P), 670, 671, 675, 676 (P), 677 (P), 678, 679 (P)]. The latitude and longitude of the project site is

*[Handwritten signatures and marks]*



24° 43' 20.66" N to 24° 43' 31.1" N and 87° 45' 55.66" E to 87° 46' 0.97" E. The nearest railway station is Kotalpukur a distance of 7.00 km and nearest airport is Ranchi a distance of 300 km. Total water requirement is about 3.30 KLD (Drinking & Domestic use : 0.9 KLD, Dust Suppression : 2.01 KLD & Afforestation / Green Belt : 0.39 KLD ). The drinking & domestic water need will be fulfilled by taking water from nearby village like Sidhpahari, Tube Well.

The indicated project cost is Rs 29.7 Lakh, a provision of Rs 4.30 Lakh has been indicated for Environment management and CER is 0.82 Lakh.

The details of mine capacity as per Approved Mining Plan are

|                          |   |                |
|--------------------------|---|----------------|
| Proved Mineral Reserve   | : | 4,58,991 tonne |
| Probable Mineral Reserve | : | 14,372 tonne   |

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

|                      |   |              |
|----------------------|---|--------------|
| 1 <sup>st</sup> Year | : | 33,482 tonne |
| 2 <sup>nd</sup> Year | : | 47,796 tonne |
| 3 <sup>rd</sup> Year | : | 48,836 tonne |
| 4 <sup>th</sup> Year | : | 49,203 tonne |
| 5 <sup>th</sup> Year | : | 49,683 tonne |

The daily production as per Form-I is 149.05 tonne.

DFO, Wildlife Hazaribagh vide letter no. 1281, dated 02.07.19 certified that the Udhwa Lake Bird Sanctuary is 27000 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 659, dated 15.06.19 certified that the distance of notified forest is 200 m from proposed project site.

The CO, Hiranpur vide letter no. 528, dated - 24.10.18 has mentioned that the proposed site is not recorded as Jangal Jhari in R.S Khatiyani & Register II.

DMO, Pakur vide memo no. 1398, dated 15.06.2016 has certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

DMO, Pakur vide memo no. 51, dated 15.01.2019 certified that the production of said project in the year 2011 is 74,750 cft. Subsequently, the mine was not operating till date. The PP has applied for EC. Hence, it can be termed as existing mine for which minimum distance from forest is 100 m criteria. Since, the (existing) mine is 200 m from the forest. EC may be considered.

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 **Sidhpahari Stone Mine of Sri Ram Sevak Yadav, Vill. : Sidhpahari, P.S. : Hiranpur, Dist. : Pakur (1.66 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

- vi. **Pahar Aamchuwa Stone Mine of Sri Mahesh Yadav, Vill. : Pahar Aamchuwa, P.O. : Pagdaha, P.S. : Shikaripara, Dist. : Dumka (1.81 Ha).**  
(Proposal No. : SIA/JH/MIN/41374/2019)

This is a Stone Mining Project with an area of 1.81 Ha [Khata no. 07, 06, Plot No.- 559 & 560].  
The latitude and longitude of the project site is 24° 12' 08.8" N to 24° 12' 05.3" N and 87° 33' 24.4" W

E to 87° 33' 19.0" E. The nearest railway station is Pinargaria a distance of 8.75 km and nearest airport is Ranchi a distance of 250 km. Total water requirement is about 3.39 KLD (Drinking & Domestic use : 0.9 KLD, Dust Suppression : 1.88 KLD & Afforestation / Green Belt : 0.61 KLD ). The drinking & domestic water need will be fulfilled by taking water from nearby village like Rampur, Tube Well.

The indicated project cost is Rs 59.23 Lakh, a provision of Rs 5.10 Lakh has been indicated for Environment management and CER is 5.10 Lakh.

The details of mine capacity as per Approved Mining Plan are

Proved Mineral Reserve : 14,58,000 tonne

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

|                      |   |                |
|----------------------|---|----------------|
| 1 <sup>st</sup> Year | : | 2,10,600 tonne |
| 2 <sup>nd</sup> Year | : | 2,59,200 tonne |
| 3 <sup>rd</sup> Year | : | 2,75,400 tonne |
| 4 <sup>th</sup> Year | : | 2,52,450 tonne |
| 5 <sup>th</sup> Year | : | 1,66,860 tonne |

The daily production as per Form-I is 918 tonne.

DFO, Wildlife Hazaribagh vide letter no. 1636, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 88710 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 1818, dated 01.06.17 certified that the distance of notified forest is 1032 m from proposed project site.

The CO, Shikaripara vide letter no. 760, dated - 07.08.19 has mentioned that the proposed site is not recorded as Jangal Jhari in R.S Khatiyani & Register II.

DMO, Dumka vide memo no. 1837, dated 05.10.2017 has certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

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 **Pahar Aamchuwa Stone Mine of Sri Mahesh Yadav, Vill. : Pahar Aamchuwa, P.O. : Pagdaha, P.S. : Shikaripara, Dist. : Dumka (1.81 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

vii. **Proposed Stone Mining of M/s Sri Bhole Minerals Stone Mine, Vill. : Chainpur, P.S. : Balidih, Dist. : Bokaro (2.255 Ha).**

**(Proposal No. : SIA/JH/MIN/38250/2019)**

This is a Stone Mining Project with an area of 2.55 Ha [Khata no. 02, Plot No.- 947]. The latitude and longitude of the project site is 23° 35' 47.30" N to 23° 35' 45.60" N and 86° 03' 25.70" E to 86° 03' 28.50" E. The nearest railway station is Radhagaon a distance of 6.7 km and nearest airport is Ranchi a distance of 21 km. Total water requirement is about 1.99 KLD will be met by private water tankers or existing dug wells / bore wells.

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The indicated project cost is Rs 58.00 Lakh, a provision of Rs 9.00 Lakh has been indicated for Environment management and CER is 4.00 Lakh.

The details of mine capacity as per Approved Mining Plan are

Proved Mineral Reserve : 1,68,162 cum

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

|                      |   |            |
|----------------------|---|------------|
| 1 <sup>st</sup> Year | : | 40,560 cum |
| 2 <sup>nd</sup> Year | : | 35,424 cum |
| 3 <sup>rd</sup> Year | : | 30,084 cum |
| 4 <sup>th</sup> Year | : | 26,379 cum |
| 5 <sup>th</sup> Year | : | 19,965 cum |

DFO, Wildlife Hazaribagh vide letter no. 1349, dated 11.07.19 certified that the Topchanchi Wildlife Sanctuary is 32315 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Bokaro Division vide letter no. 1907, dated 18.06.19 certified that the distance of notified forest is 255 m from proposed project site.

The CO, Chas (Bokaro) vide letter no. 1263, dated - 08.08.19 has mentioned that the proposed site is not recorded as Jangal Jhari in R.S Khatiyani & Register II.

DMO, Bokaro vide letter no. 1629, dated 15.05.2018 has certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DSR of the district is not available in the SEIAA / SEAC office.

Thus, the M.S, SEAC will get clarification from the DC, Bokaro on this issue. Once the reply is received, SEAC would consider. In the meantime PP was advised to collect the above information from their level also.

**On receipt of proper document, SEAC will examine the case for appropriate decision.**

viii. **Kashidih Stone Deposit of M/s Raja Enterprises, Mouza : Kashidih, Thana : Chandil, Dist. : Saraikela – Kharsawan (2.41 Ha).**

**(Proposal No. : SIA/JH/MIN/40055/2019)**

This is a Stone Mining Project with an area of 2.41 Ha [Plot no. 101 (P), 102 (P), Khata no. 1, Plot no. 130, 131, Khata no. 123, Plot no. 132, 133, 134, 135 & 136, Khata no. 29]. The latitude and longitude of the project site is 22° 58' 32.45" N to 22° 58' 38.86" N and 85° 55' 37.30" E to 85° 55' 44.52" E. The nearest railway station is Chandil a distance of 15 km and nearest airport is Ranchi a distance of 72 km. Total water requirement is about 8.0 KLD will be met by private water tankers or existing dug wells / bore wells.

The indicated project cost is Rs 58.00 Lakh, a provision of Rs 10.00 Lakh has been indicated for Environment management and CER is 3.10 Lakh.

The details of mine capacity as per Approved Mining Plan are

Proved Mineral Reserve : 7,03,561 tonne

Probable Mineral Reserve : 29,565 tonne

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

|                      |   |              |
|----------------------|---|--------------|
| 1 <sup>st</sup> Year | : | 90,056 tonne |
| 2 <sup>nd</sup> Year | : | 90,072 tonne |
| 3 <sup>rd</sup> Year | : | 90,040 tonne |
| 4 <sup>th</sup> Year | : | 90,069 tonne |
| 5 <sup>th</sup> Year | : | 90,045 tonne |

The daily production as per Mine Plan is 300 tonne.

DCF & FD, Elephant Project, Jamshedpur vide letter dated 29.06.19 certified that the project site is not within 10 km from National Park, Bio-Diversity & Sanctuary and not situated in any ESZ.

DFO, Saraikela Division vide letter no. 361, dated 29.06.19 certified that the distance of notified forest is 251 m from proposed project site.

The CO, Chandil vide letter no. 969, dated - 04.06.19 has mentioned that the proposed site is not recorded as Jangal Jhari in R.S Khatiyani & Register II.

DMO, Saraikela vide letter no. 407, dated 26.06.19 certified that any other lease is not within 500 m radius from proposed project site, wherein this site is not available.

The DSR of the district available in the SEIAA / SEAC office, is not encompassing the project site.

Thus, the M.S, SEAC will get clarification from the DC, Saraikela - Kharsawan on this issue. Once the reply is received, SEAC would consider. In the meantime PP was advised to collect the above information from their level also.

**On receipt of proper document, SEAC will examine the case for appropriate decision.**

ix. **Rehra Stone Mine of Sri Mukesh Kr. Singh, Vill. : Rehra, Tehsil : Chhatarpur, Dist. : Palamau (1.33 Ha).**

**(Proposal No. : SIA/JH/MIN/37878/2019)**

This is a Stone Mining Project with an area of 1.33 Ha [Khata no. 17, Plot No.- 119]. The latitude and longitude of the project site is 24° 21' 35.7" N to 24° 21' 36.5" N and 84° 09' 25.90" E to 84° 09' 32.5" E. The nearest railway station is Japla at a distance of 45 km and the nearest airport is Gaya at a distance of 125 km . Total water requirement is 2.047 KLD. Water requirement will be met through boring a bore hole, pumping arrangement and overhead tanks as well as pit sump and settling tanks. Water is required for sprinkling on haul roads, watering of plants and drinking water for workers.

The indicated project cost is Rs 45.00 Lakh and a provision of Rs 5.00 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

|                           |   |                |
|---------------------------|---|----------------|
| Proved Mineable Reserve   | : | 5,64,582 tonne |
| Probable Mineable Reserve | : | 63,376 tonne   |

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

|                      |   |                 |
|----------------------|---|-----------------|
| 1 <sup>st</sup> Year | : | 56,100.60 tonne |
| 2 <sup>nd</sup> Year | : | 56,100.60 tonne |
| 3 <sup>rd</sup> Year | : | 56,100.60 tonne |
| 4 <sup>th</sup> Year | : | 56,100.60 tonne |
| 5 <sup>th</sup> Year | : | 56,100.60 tonne |

The daily production as per Form I is 187 tonne.

DFO, Medininagar vide letter no. 4142, dated – 01.09.18 certified that the distance of notified forest is 255 m from proposed project site. Dy. Director, Palamau Tiger Project, North Division, Medininagar vide letter no. 981, dated - 28.05.19 certified that not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Medininagar vide letter no. 1211, dated – 16.04.19 certified that the proposed site is not under the No Mining Zone.

The CO, Chhatarpur vide letter no. 579, dated – 24.08.18 has mentioned the plot no. of the project is not recorded as “Jangle Jhari” in the R.S. Khatiyani & Register –II.

DMO, Palamau, Medininagar vide memo no. 532, dated 30.03.19 certified that any other lease is not within 500 m radius from proposed project site.

The DC, Palamau (letter no. 1257, dated 27.08.19) requesting Member Secretary, SEAC to incorporate the details of the project in DSR.

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 *Rekha Stone mine of Sri Mureshwar Singh Vill. : Rekha, Tehsil: Chhatarpur, Dist: - Palamau (1001)* be recommended for consideration of SEIAA for grant of EC, in the light of DC, Palamau aforesaid letter dated 27.08.19. The various conditions for grant of EC is enclosed as **Annexure - I**.

x. **Fatchpur Stone Mine of M/s Mishra Stone Works, Vill. : Fatehpur, Tehsil : Hiranpur, Dist. : Pakur (3.37).**

**(Proposal No. : SIA/JH/MIN/62472/2019)**

This is a Stone Mining Project with an area of 3.37 Ha [Khata no. 17, Plot No.- 229 (P), 233 (P), 234 (P), 240 (P), 241 (P) & 254, Khata no. 09, 15, 17, 18, 25]. The latitude and longitude of the project site is 24° 44' 50.50 N to 24° 44' 59.22" N and 87° 47' 04.89" E to 87° 47' 14.91" E. The nearest railway station is Kotalpukur at a distance of 3.8 km and the nearest airport is Kolkata at a distance of 242 km . Total water requirement is 5.34 to 6 KLD.

The indicated project cost is Rs 46.00 Lakh and a provision of Rs 2.83 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

|                           |   |                 |
|---------------------------|---|-----------------|
| Proved Mineable Reserve   | : | 17,16,387 tonne |
| Probable Mineable Reserve | : | 2,24,020 tonne  |

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

*[Handwritten signatures and initials]*

|                      |   |                |
|----------------------|---|----------------|
| 1 <sup>st</sup> Year | : | 1,90,690 tonne |
| 2 <sup>nd</sup> Year | : | 1,90,123 tonne |
| 3 <sup>rd</sup> Year | : | 1,90,907 tonne |
| 4 <sup>th</sup> Year | : | 1,91,950 tonne |
| 5 <sup>th</sup> Year | : | 1,95,407 tonne |

The daily production as per Form I is 651.35 tonne.

DFO, Pakur vide letter no. 1447, dated – 26.12.15 certified that the distance of notified forest is 500 m from proposed project site and not within 10 km from National Park, Bio-Diversity & Sanctuary.

The CO, Hiranpur vide letter no. 580, dated – 12.11.18 has mentioned the plot no. of the project is not recorded as “Jangle Jhari” in the R.S. Khatyan.

DMO, Pakur vide memo no. 129, dated 21.01.2018 has certified that altogether total mining in the area is more than 5 ha in the radius of 500 m.

The DSR of the district available in the SEIAA / SEAC office, is not encompassing the project site.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18-20.09.19, the Committee recommends conditionally (project site not mention in DSR) 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 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III.

SEIAA is requested to take decision on the “recommendation” of SEAC, 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.

xi. **Belpahari Stone Mine of M/s Maa Durga Stone Works Product, Vill. : Belpahari & Beldiha, Tehsil : Hiranpur, Dist. : Pakur (12.15 Ha).**

**(Proposal No. : SIA/JH/MIN/36399/2019)**

This is a Stone Mining Project with an area of 12.15 Ha [Khata no. 02, 03, 05, 06, 07, 13, 17, 18, 24, 25, 27, 32, 56, Plot No.- 123, 124, 131 to 141, 722, 723, 724, 676, 677, 679, 682, 678, 680, 681, 683, 684, 685, 686, 691, 692, 694, 695, 696, 697, 698, 699, 720, 721]. The latitude and longitude of the project site is 24° 42' 04.78" N to 24° 42' 21.59" N and 87° 44' 45.51" E to 87° 45' 03.25" E. The nearest railway station is Pakur at a distance of 22 km and the nearest airport is Kolkata at a distance of 250 km . Total water requirement is 9 to 10 KLD.

The indicated project cost is Rs 98.00 Lakh and a provision of Rs 2.83 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

|                           |   |                 |
|---------------------------|---|-----------------|
| Proved Mineable Reserve   | : | 80,48,172 tonne |
| Probable Mineable Reserve | : | 6,87,663 tonne  |

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

|                      |   |                |
|----------------------|---|----------------|
| 1 <sup>st</sup> Year | : | 3,24,402 tonne |
| 2 <sup>nd</sup> Year | : | 3,39,977 tonne |
| 3 <sup>rd</sup> Year | : | 3,76,714 tonne |
| 4 <sup>th</sup> Year | : | 3,77,862 tonne |

5<sup>th</sup> Year : 3,78,408 tonne

The daily production as per Form I is 1261 tonne.

DFO, Wildlife Hazaribagh vide letter no. 1392, dated 20.07.19 certified that the Udhawa Lake Bird Sanctuary is 29930 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Pakur vide letter no. 1198, dated – 01.08.16 certified that the distance of notified forest is more than 250 m from proposed project site.

The CO, Hiranpur vide memo no. 581, dated – 12.11.18 has mentioned the plot no. of the project is not recorded as “Jangle Jhari” in the R.S. Khatiyani.

DMO, Pakur vide memo no. 1168, dated 19.05.2017 has certified that altogether total mining in the area is more than 5 ha in the radius of 500 m.

The DSR of the district available in the SEIAA / SEAC office, is not encompassing the project site.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18-20.09.19, the Committee recommends conditionally (project site not mention in DSR) 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 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III.

SEIAA is requested to take decision on the “recommendation” of SEAC, 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.

xii. **Tepsa Stone Mine Project of Sri Raj Kishore Prasad at Vill. :Tepsa, Ichak, Hazaribagh (8.5 Ha).**

The PP & consultant of the project are absent in the scheduled SEAC meeting for appraisal. They were not appearing since 67<sup>th</sup> meeting dated 25-27.02.2019, 69<sup>th</sup> meeting dated 01-03.04.2019, 74<sup>th</sup> meeting dated 10-12.07.2019 & 75<sup>th</sup> meeting dated 24-26.07.2019.

So, the SEAC request the M.S, SEAC to serve him notice for appearance in the next meeting, failing which SEAC would recommend for delisting of the instant project.

**B.**

**Note : Dr. R.N. Singh, Member, SEAC did not participated in the appraisal of these projects, as these projects were prepared prior to joining SEAC.**

- i. Bahirgram Stone Mine of M/s Rohit Rajdev & Mohit Rajdev, Vill. : Bahirgram, P.O. & P.S. : Pakur, Dist. : Pakur (0.44 Ha).
- ii. Sidhpahari Stone Mine of Sri Ram Sevak Yadav, Vill. : Sidhpahari, P.S. : Hiranpur, Dist. : Pakur (1.66 Ha).
- iii. Fatehpur Stone Mine of M/s Mishra Stone Works, Vill. : Fatehpur, Tehsil : Hiranpur, Dist. : Pakur (3.37).
- iv. Belpahari Stone Mine of M/s Maa Durga Stone Works Product, Vill. : Belpahari & Beldiha, Tehsil : Hiranpur, Dist. : Pakur (12.15 Ha).

The meeting concluded with thanks to all present.

*B.K. Tewary*  
(Dr. B.K. Tewary) 20/09/2019  
Member

*R.N. Singh*  
(Dr. R.N. Singh)  
Member

*Y.K. Singh*  
(Y.K. Singh)  
Member

*S.P. Srivastava*  
(S.P. Srivastava) 20/9/19  
Member

*V.P. Sinha*  
(Dr. V.P. Sinha)  
Member

*U.P. Singh*  
(U.P. Singh)  
Member

*Om Prakash*  
(Om Prakash)  
Member Secretary

*K.P. Bhawsinka*  
(K.P. Bhawsinka) 20/9/19  
Chairman

Chairman's remarks:

Point A(i) subject to fulfillment of The Sustainable Sand Mining Guidelines, 2016 of MoE & CC

A(ii) EC granted by SE (IA) refers for EC grant at the time of loan renewal (Point C(ii) of memo

A(iii) with the recommendation made by SEAC & forwarded by SEAC, MS under Point No. A(iii) is required in provision of EIA notification of alleged violation to SEAC. SEAC should remain confined to the facts observed on EC ~~renewal~~ violations conditions. But the type of action to be taken ~~specific~~ needs to be decided by SE (IA) in state.

Therefore, Chairman, SEAC disagree with the recommendations made beyond the jurisdiction of SEAC.

(B)(i) Rehabilitation & resettlement Project also has to account for social pre-rehabilitation project position aspects.

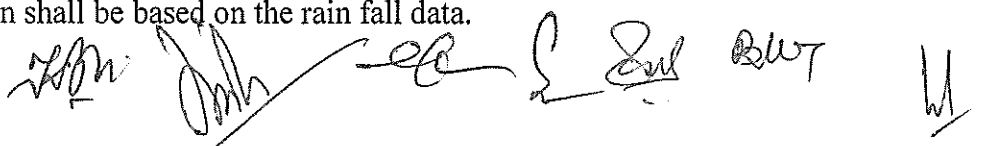
(A(ii)) Expansion limits & need for fresh EM may be exempt but a change in reheat technology of filters is likely to eliminate air pollution issue. Withdrawal of EC is noted.

Note: Enough time for review is needed by Chairman, SEAC  
20.9.19 by *Om Prakash*



**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.

A series of handwritten signatures and initials in black ink, including names like 'Sul', 'BWT', and 'W'.

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.

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

### C. Other points

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded 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.

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

#### A. Standard Terms of Reference

##### 1. Executive Summary

##### 2. Introduction

- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent
- iii. Importance and benefits of the project

##### 3. Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
  - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing / existing operation of the project from SPCB shall be attached with the EIA-EMP report.
  - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

##### 4. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site. .

- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

**5. Forest and wildlife related issues (if applicable):**

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

**6. Environmental Status**

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.

- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

## 7. Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor- cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control.
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle / reuse / recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc.

shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

#### 8. Occupational health

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

#### 9. Corporate Environment Policy

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

10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

#### 11. Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details



along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
13. A tabular chart with index for point wise compliance of above TOR.

## **B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS)**

1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
3. Details on installation/activation of opacity meters with recording with proper calibration system
4. Details on toxic metals including mercury, arsenic and fluoride emissions
5. Details on stack height requirement for integrated steel
6. Details on ash disposal and management -Non-ferrous metal
7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
8. Raw materials substitution or elimination
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation
10. Details on Holding and de-gassing of molten metal from primary and secondary aluminum, materials pre-treatment, and from melting and smelting of secondary aluminium
11. Details on solvent recycling
12. Details on precious metals recovery
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery
18. Trace metals in water

## **C. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT**

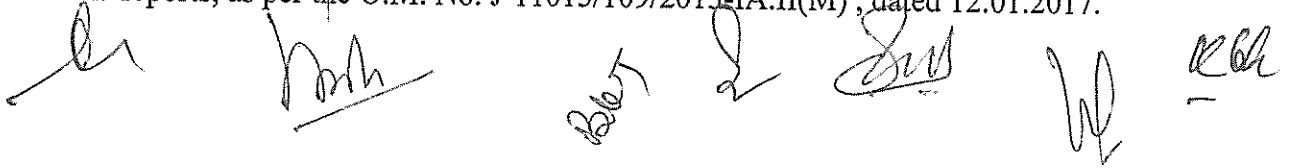
1. Respirable Suspended particulate matter (RSPM) present in the ambient air must be analyzed for source analysis - natural dust/RSPM generated from plant operations (trace elements). The RSPM shall also be analyzed for presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction, where applicable. Chemical characterization of RSPM and incorporating of RSPM data.
2. All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
3. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.

4. Plan for slag utilization
5. Plan for utilization of energy in off gases (coke oven, blast furnace)

**D. Other**

1. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.
2. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.

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

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be

prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.

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20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be

undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and

grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.

39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. Besides the above, the below mentioned general points are also to be followed :-
  - a) Executive Summary of the EIA/EMP Report
  - b) All documents to be properly referenced with index and continuous page numbering.
  - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
  - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.
  - e) Where the documents provided are in a language other than English, an English translation should be provided.
  - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
  - g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF & CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
  - h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
  - i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
  - j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections

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*[Handwritten signatures and initials]*

and (iii) sections of the mine pit and external dumps, if any, clearly showing the features of the adjoining area.

45. After preparing the draft EIA (as per the generic structure prescribed in Appendix I of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
46. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.

Handwritten signatures and initials are present below the text, including a large signature on the left and several smaller ones on the right.