

MINUTES OF THE 82ND MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 04TH, 05TH, 06TH & 07TH NOVEMBER, 2019

The 82nd meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 04th, 05th, 06th & 07th November, 2019 under the Chairmanship of Sh. K.P. Bhawsinka in the Conference Room at SEAC, Ranchi.

The following members were present :

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|------------------------|--------------------|
| 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. Dr. R. V. Singh | - Member |
| 8. M.S. Bhagwat | - Member |
| 9. Sri U.P. Singh | - Member |
| 10. Sri Om Prakash | - Member Secretary |

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 23rd, 24th & 25th October, 2019. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite information's / 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 : November 04, 2019 [Monday]

Consideration of Proposals

1. **Burka Brick Clay Deposit of M/s Bedal Bricks at Vill : Burka, Thana : Bhandra, Dist : Lohardaga (0.996 Ha).**

(Proposal no. : SIA/JH/MIN/44309/2019)

This is Brick clay Mining Project with an area of 0.992 Ha [Plot No. 38 & 46, Khata No. 05. The latitude and longitude of the project site is 23°20'19.52"N to 23°20'23.95"N and 84°45'00.11"E to 84°45'03.95"E. The nearest railway station is Irgaon at a distance of 10.0 km and nearest airport is Ranchi airport at a distance of 58 km. Total water requirement is 3.5 KLD. Water will be taken from private tanker.

The indicated project cost is Rs 12.0 Lakh and a provision of Rs 2.00 Lakh has been indicated for Environment management.

Total minor mineral reserve of the applied area is about 12916 cum. As per estimation of requirement of 1715.30 cum for casting the granted number of Six Lakhs bricks / Season, the life of proposed area comes to be 7.50 seasons.

DFO, Wildlife Ranchi vide memo no. 1037, dated 16.09.19 certified that the not within of 10 km is under ESZ National Park, Bio-Diversity, Sanctuary.

DFO, Lohardaga Division vide letter no. 36, dated 04.01.19 certified that the distance of notified forest is 3000 m from proposed project site.

The CO, Bhandra (Lohardaga) vide letter no. 731, dated 23.09.19 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyani.

DMO, Lohardaga vide memo no. 643, dated 28.08.2019 certified that no other lease is exists within 500 m radius from proposed project site.

Besides, the DSR of the district has not incorporated the said brick earth mining site. The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Burka Brick Clay Deposit of M/s Bedal Bricks at Vill : Burka, Thana : Bhandra, Dist : Lohardaga (0.996 Ha) be conditionally** (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

2. **Chakla Brick Clay Deposit of M/s Ravi Bricks at Vill : Chakla, Thana : Ormanjhi, Dist : Ranchi (1.003 Ha).**
(Proposal no. : SIA/JH/MIN/44294/2019)

This is Brick clay Mining Project with an area of 1.003 Ha [Plot No. 1032 (P), 1033 & 1034 (P), Khata No. 97]. The latitude and longitude of the project site is 23°27'52.82"N to 23°27'56.99"N and 85°28'31.79"E to 85°28'37.07"E. The nearest railway station is Mersa at a distance of 8.0 km and nearest airport is Ranchi airport at a distance of 23.0 km. Total water requirement is 2.0 KLD. Water will be taken from private tanker.

The indicated project cost is Rs 15.0 Lakh and a provision of Rs 6.6 Lakh has been indicated for Environment management.

Total minor mineral reserve of the applied area is about 14372 cum. As per estimation of requirement of 1715.30 cum for casting the granted number of Six Lakhs bricks / Season. the life of proposed area comes to be 8.38 or 8.50 seasons.

DFO, Wildlife Ranchi vide memo no. 1055, dated 24.09.19 certified that the National Park, Bio-Diversity, Sanctuary not within 10 km and proposed site is under ESZ.

CF / DFO, Ranchi Division vide letter no. 4804, dated 17.11.17 certified that the distance of forest is 1100 m from proposed project site.

The CO, Ormanjhi (Ranchi) vide letter no. 522, dated 26.09.19 has mentioned the plots of the project are not recorded as "Jangle Jhari" in R.S Khatiyani.

DMO, Ranchi vide memo no. 02, dated 01.01.2018 certified that no other lease is exists within 500 m radius from proposed project site.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Chakla Brick Clay Deposit of M/s Ravi Bricks at Vill :Chakla, Thana : Ormanjhi, Dist : Ranchi (1.003 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

3. **Sakrauli Brick Clay Deposit of M/s Sahu Brick (Prop: Sri Pankaj Kumar Sahu) at Vill – Sakrauli, Thana : Sakrauli, Dist. : Gumla (0.894 Ha).**

(Proposal no. : SIA/JH/MIN/44511/2019)

This is Brick clay Mining Project with an area of 0.894 Ha [Khata no. 26. Plot no. 1022 (P), 1041 (P), 1042 (P)]. The latitude and longitude of the project site is 23°09'34.77"N to 23°09'39.37"N and 84°47'44.13"E to 84°47'48.52"E. The nearest railway station is Nagjua at a distance of 26.5 km and nearest airport is Ranchi airport at a distance of 55 km. Total water requirement is 3.1 KLD. Water will be taken from private tanker.

The indicated project cost is Rs 10.0 Lakh and a provision of Rs 2.00 Lakh has been indicated for Environment management.

Total minor mineral reserve of the applied area is about 10082 cum. As per estimation of requirement of 1714.60 cum for casting the granted number of Six Lakhs bricks / Season, the life of proposed area comes to be 5.80 or 6.00 seasons.

DFO, Wildlife Ranchi vide memo no. 1149, dated 11.10.19 certified that the proposed site is National Park, Bio-Diversity, Sanctuary and not within 10 km under ESZ.

DFO, Gumla Division vide letter no. 387, dated 29.01.18 certified that the distance of notified forest is 1000 m from proposed project site.

The CO, Sisai vide letter no. 780, dated 04.10.19 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Gumla vide memo no. 921, dated 11.10.2019 certified that no other lease exists within 500 m radius from proposed project site.

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

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

SEAC recommends the proposal for EC to SEIAA subject to submission of certificate from competent authority of Jharkhand regarding inclusion in the DSR. An undertaking in this regard has been submitted by the proponent.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Sakrauli Brick Clay Deposit of M/s Sahu Brick (Prop: Sri Pankaj Kumar Sahu) at Vill – Sakrauli, Thana : Sakrauli, Dist. : Gumla (0.894 Ha)** be **conditionally** (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of

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SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

4. **Kulbhanga Stone Deposit of M/s Maa Durga Stone Works (Prop. : Shri Bishnu Prasad Yadav) at Vill : Kulbhanga, Block + Taluka: Jirwabadi (OP), Dist. : Sahebganj (4.70 Ha).**

(Proposal no. : SIA/JH/MIN/44723/2019)

This is a Stone Mining Project with an area of 4.70 Ha [Khata no. 79, 55, 48, 58, 14, 72, 84, Plot No.- 51, 53, 54, 55, 56, 58 & 59 (P)]. The latitude and longitude of the project site is 25° 12' 24.88" N to 25° 12' 33.92" N and 87° 34' 37.62" E to 87° 34' 49.45" E. The nearest railway station is Sahibganj at a distance of 8.0 km and nearest airport is Ranchi at a distance of 450 km . Total water requirement is 2.5 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 details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	34,75,475 tonne
Probable Mineable Reserve	:	1,88,222 tonne

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

1 st Year	:	2,10,200 tonne
2 nd Year	:	2,41,294 tonne
3 rd Year	:	2,04,404 tonne
4 th Year	:	2,31,852 tonne
5 th Year	:	2,56,592 tonne

The daily production as per Form-I is 156 tonne.

The indicated project cost is Rs 75.00 Lakh, a provision of Rs 8.5 Lakh has been indicated for Environment management and CER is 5.00 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1583, dated 09.08.19 certified that the Udhwa Lake Bird Sanctuary is 31115 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. 2316, dated 22.12.17 certified that the distance of notified forest is 370 m from proposed project site.

DMO, Sahebganj vide memo no. 1041, dated 31.07.19 certified that no other lease are exists within 500 m radius from proposed project site.

The CO, Mandro vide memo no. 258, dated 13.03.19 has mentioned the plots of the project are not recorded as "Jangle Jhari" in R.S Khatyan & Register II.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Kulbhanga Stone Deposit of M/s Maa Durga Stone Works (Prop. : Shri Bishnu Prasad Yadav) at Vill : Kulbhanga, Block + Taluka:**

Jirwabadi (OP), Dist. : Sahebganj (4.70 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

5. **Proposed Rehabilitation & Resettlement Package (R & R) for HEC Displaced Persons of M/s Greater Ranchi Development Agency Ltd. at Site 1, HEC area, Vill. : Aani, Dhurwa, Ranchi.**

(Proposal No. : SIA/JH/NCP/22997/2018)

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 th November, 2011
2.	Construction Work Started	15 th December, 2016
3.	Proposal submitted to MoEF & CC in violation category	11 th September, 2017
4.	Transferred proposal to SEIAA Jharkhand	28 th March, 2018
5.	EDS Letter	15 th May, 2018
6.	TOR Proposal (Resubmission) EDS reply	20 th June, 2019
7.	Acceptance of ToR proposal	20 th June, 2019

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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 Latitude : 23°19'22.9"N to 23°19'35.8"N Longitude : 85°17'03.8"E to 85°17'02.4"E
5.	Total Plot Area	236835.4 sq.m.
6.	Permissible Ground Coverage @ 50% of plot area	118417.719 sq.m.
7.	Proposed Ground Coverage @ 20.505 % of plot area	48563.107 sq.m.
8.	Permissible FAR @ 2 of plot area	473670.877 sq.m.
9	Proposed FAR @0.2 of plot area	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.
	Total Built-up Area	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 Ring Road	0.6 km towards South 3.7 Km towards West
3.	National Highway	NH-75 NH-23	1.9 Km towards East 5.2 Km towards North West
4.	Nearest Railway Station	Hatia Railway station Ranchi Railway station	4 km towards South East. 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.

Parking 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

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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 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 ground water by providing treated water to the nearby building construction activities. No discharge will be

			made to any water body.
Waste resource	Waste generation of 357 Kg per day , Excavated soil	Littering of waste 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 Loose construction material Storage Use of DG sets	Particulate matter 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. Noise from DG sets	Disturbance to vulnerable groups Disturbance to nearby residents	There will be acoustic enclosure for DG sets; construction activity will be during day time only. Only properly maintained and PUC vehicle will be used. Honking will be discouraged.
Water Environment	Water withdrawal Generation of waste water	Stress on water resources. 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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			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. 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 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 quantity 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.

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.*
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)

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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 be 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 2nd week of September 2019.


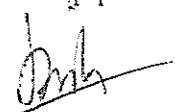

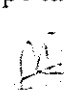
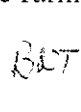

[A] Documents required / corrections needed

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 be 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 $236835.4m^2$ 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 53500m², Earthwork Excavation Quantity for entire site leveling , any other major units(not identified above) with Excavation quantity of more than 100 m³.
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.

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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 be 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."
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 83under 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

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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 Page44,

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:

Sr. No	Major Environment	Details	Cost , Rs Crores
	Air Environment	Treatment of Respiratory Diseases due to uncontrolled emissions of Particulate Matter PM10 and PM2.5 Total Population =127779, persons affected@0.11% (CPCB Report-Study of Respiratory Diseases, WHO Report, Lancet Journal and Indian Researchers) due to incremental load of 0.1µg/m ³ ,and for every 10 µg/m ³ ,13% population develops Respiratory problems. Cost of Treatment involved =Rs.42000/= per person. no. of persons affected due to project =141 Total cost of Treatment =(141*42000)=Rs0.59 Cr	0.59
	Land Environment	Loss of Water Shed Area as direct component of ecology.(WORT Report) .The cost of constituent micro watershed is not available readily, hence the indirect cost of GDP price of the land involved has been considered. It is derived by dividing Total GDP (GSDP) value of Jharkhand State (Economic Survey 2017-18) and Total geographic area of Jharkhand State and it comes to Rs.189.0 m2.Applying correction of -20 % to the value the net value of water shed to get the approximate	1.77

		value(in absence of details of natural resources such as crop/vegetable/ oil seeds/milk/fodder/forest etc production), comes to Rs.75 m2. The total area of VS 1.77 Plot = 236835.4 m2 * 75 = Rs.1.77 Cr	
	Water Environment	<p>Direct Recharge Loss due to catchment area and as component to natural recharge to ground water regime of the ecology and most importantly to the "ecological flow" of the ecosystem being a part of larger Subarnarekha Basin reducing its life sustaining capacity. Plot Area = 236835.4 m2, Average Rainfall = 1100 mm (Ranchi District-IMD Data),Recharge factor as infiltration to ground water from surface runoff over the area = 0.2 (CGWB Guidelines ,GEC 1997), Therefore total natural Recharge loss = $236835.4 * 1.1 * 0.2 = 52103.78 \text{ m}^3$, Vol of Recharge as envisaged in EIA Report =1554.02 m3, Net Recharge Loss = 50549.76 m3,</p> <p>Now one tanker load = 4 m3, No. of Tankers = $(50549.76/4) = 12637 \text{ nos.}$, Cost of 1 Tanker load of water = Rs. 264 (assumption at current bulk cost) , = 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</p>	<p>0.33</p> <p>0.05</p>
	Soil Environment	<p>Direct loss to soil environment as natural resource of ecosystem. Total vol. of soil excavated , hauled and stored at certain place = 6543.0 m3 , fines generated during excavation and loading into dumpers and loss as water erosion during rains/monsoon at storage site = 10 % = 654.3m3, balance soil as material balance = $6543.0 - 654.3 = 5888.7 \text{ m}^3$, Fines generated during</p>	<p>0.09</p> <p>0.5</p>

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		restoration/backfilling =10% =588.87 m3. Total soil fines lost =(654.3+588.87) =1243.17 m3. No of dumper loads @ 4 m3= 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	
		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 m2 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
Total			3.83 Cr.

SEAC discussed the on the replies queries raised by the committee in the earlier meetings and finds the revised remediation cost rs. 3.83 crores suitable for the same.

Finally SEAC recommends this proposal to SEIAA for issuance of EC subject to confirmation of submission of **bank guarantee** to the tune of Rs. **3.83 crore** in favour of Jharkhand State Pollution Control Board, Ranchi with the following conditions as in Annex. V.

6. **Expansion of Residential project of M/s Apna Awas Engineering Pvt. Ltd. of Sri Jitendra Kumar Singh at Vill : Konka, Tehsil : Lower Bazar, Dist.: Ranchi.**

(Proposal no. : SIA/JH/MIS/121360/2019)

Details to include

DFO, Wildlife Ranchi vide memo no. 1108, dated 30.09.19 certified that the National Park. Bio-Diversity, Sanctuary not within 10 km and proposed site is under ESZ.

The DFO, Ranchi Division vide letter no. 472, dated 10.10.19 certified that the minimum distance is 250 m.

The CO, Shahar, Ranchi vide memo no. 646, dated 03.10.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan& Register II.

To follow AAI report on height of the buildings affidavit to not to tower the existing pond.

Based of the documents & drawings submitted and presentation made during 82nd SEAC's Meeting are following are the observation :

1. Supporting document of land(LAND DEED) substantiating the ownership of the M/S Apna AEPL to be submitted
2. The layout of five RS plots plotted on coordinate system to be provided to examine if the outline of the five plots & the outline of map submitted
3. A Pond is existing adjoining just next to western boundary (property line the premises in RMC) in approved building map of 2015 . In 2007 approved RRDA map when the construction of building blocks adjoining the pond were to take place, this pond was not shown on the drawing. Related data regarding the existing waterbody with coordinate, dimensions, levels etc to be provided.
4. Municipal drain existing just outside the northern part of site having the lowest contour level of 96m. Recharge Borewell has been planned close to the drain. To be addressed in the proposal. Details of the Municipal drain to be provided.
5. Mismatch in numbers of plots in Site location mentioned in Conceptual plan & in drawing approved in 2015 by RMC, In 2007.
6. Revalidation of 2015 approved drawing by RMC is to be provided as the building map approved by RMC is over 4 years old & it needs revalidation after lapse of certain period as per municipal laws.
7. Revised NOC from Airport Authority is to be furnished for the height with respect to the Finished Terrace Level & also the certificate is 4 years old.
8. Mismatch in Project Site's Co-ordinates for which NOC of AAI obtained & Co-ordinate mentioned in Form-I.
9. Geo-Technical Report to be provided along with the revised proposal.
10. Rain Water Harvesting Pits with Retention time of 60 minutes.
11. Height & type of Barricading of the expansion Project to be specified.
12. The correctness of the following statement to be examined by PP:
-- "Storm water drains at site will collect the runoff from site & recharge Borewells are provided to recharge this water to ground"-Clause 1.5 Form IA
"Approx 10966.5 cum sand will be excavated , will be used for Construction purpose"
Clause 1.6 Form IA.
13. Contradictory statements seen like " Treated water from STP will be used to the extent possible & excess will be discharged to SEWER(Form-I, clause 7.2)", "a ZERO DISCHARGE Project". PP to confirm if the City's Sewerage city is existing & functional .
14. To examine if project could be considered as EXPANSION OF PROJECT or not. In RRDA's approved map of 2007, 5 plots shown .In 2015 approved RMC Drawing , more plots added & a few existing shown in RRDA 2007 plan is omitted.
15. Layout of khatian plot for the expansion project including the original one to be provided to examine the correctness of total plot area as per deed as 257.99 D & as

9301.4 Sqm. Approved Building map (PLAN, ELEVATION & SECTIONS) by RMC to be submitted.

18. Surface plan for 500m all around the project showing existing site physical features is to be provided showing all waterbodies, Road etc in a magnified scale.

19. Computational Detail of the Earthwork to be submitted.

20. General Arrangement drawing o superimposed on contour plan & mentioning the Finished Terrace Level on a proper coordinate system showing the existing & the proposed building blocks, outline of original 5 plots & outline of additional plots added, plots excluded, location of STP, LOCATION OF RWH pits, storm water drain, Sewer lines(Existing & proposed), Roads arrangement of parking of vehicles, all major connecting dimensions ,levels etc on a proper coordinate system to be immediately provided to appraise the project.

21. Approved Ground floor building plan & Basement plan with sections upto first floor of D ,E & F blocks with GA to be provided.

The PP has submitted the required documents at the fagend of the meeting which could not be examined. Hence document submitted by the PP along with all the documents is being forwarded to SEIAA for needful.

7. **Mahil Stone Deposit of M/s Classic Engicon Pvt. Ltd. at Vill :Mahil, Thana: Sonahatu, Dist : Ranchi (1.90 Ha)**

(Proposal no. : SIA/JH/MIN/35155/2019)

This is a Stone Mining Project over an area of 1.90 Ha [Khata no. 285, Plot No.- 277, 278, 279, 284, 285 & 286, Khata no. 288, Plot No. - 273(P) & 283(P)]. The latitude and longitude of the project site is N23°09'44.46" To N23°09'50.40" and E85°49'26.96" To E85°49'34.77". The nearest railway station is Tiruldi at a distance of 11.57 km and nearest airport is Ranchi at a distance of 53.96 km. Total water requirement is 17.5 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	3,80,428 tonne
Probable Mineable Reserve	:	33,180 tonne

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

1 st Year	:	2,06,651 tonne
2 nd Year	:	2,06,956 tonne

The daily production as per Form-I is 690 tonne.

The indicated project cost is Rs 80.00 Lakh and a provision of Rs 5.26 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 932, dated 26.08.19 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

The DFO, Khunti Division vide letter no 1675, dated 16.06.2019 certified that the distance of notified forest is 500 m from proposed project site.

The CO. Sonahatu (Ranchi) vide letter, dated 18.02.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO. Ranchi vide memo no. 856, dated 07.09.19 certified that no other lease is exists within 500 m radius from proposed project site.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Mahil Stone Deposit of M/s Classic Engicon Pvt. Ltd. at Vill : Mahil, Thana: Sonahatu, Dist : Ranchi (1.90 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II**.

DFO, Wildlife Ranchi vide memo no. 1108, dated 30.09.19 certified that the National Park. Bio-Diversity, Sanctuary not within 10 km and proposed site is under ESZ.

The DFO, Ranchi Division vide letter no. 472, dated 10.10.19 certified that the minimum distance is 250 m.

The CO. Shahar. Ranchi vide memo no. 646, dated 03.10.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

To follow AAI report on height of the buildings affidavit to not to tower the existing pond.

EC condition

- (1) RWH to increase the numbers
- (2) Greeneries 10% to 20%
- (3) Special care for wastage & treatment
- (4) Core port
- (5) Plots not available to be included

PPs the combatant presented the ToR points are replied quarries.

BLT *U* The PP Committee suggested to ~~increase the plantation from the present of~~ & start the *U* plantation immediately before taking up the expansion work.

Based on the presentation made the committee recommended to SEIAA for consideration of E.C as per the follow up conditions as shown in **Annex II**.

8. **Amarpur Mako-2 Stone Mine of M/s Geeta Stone Works (Prop. : Sri Deepak Kumar Chaudhary) at Vill. : Amarpur Mako-2, Tehsil : Barhait, Dist. : Sahebganj (2.985 Ha).**
(Proposal no. : SIA/JH/MIN/44201 /2019)

This is a Stone Mining Project over an area of 2.985 Ha [Khata no. 01, 15, 17, 14, 10. Plot No.- 64 (P), 71 (P), 77 (P), 80 (P), 81 (P), 146 (P)]. The latitude and longitude of the project site is N 22°50'40.24" To N 22°50'47.37" and E 87°38'43.83" To E 87°38'53.90". The nearest railway station is Barharwa at a distance of 14 km and nearest airport is Malda at a distance of 45 km. Water demand for potable purpose is about 1.0 KLD, for dust suppression 6.0 KLD and for green belt about 2.0 KLD, will be met by dug well / mine pit water.

The details of mine capacity as per Approved Mining Plan are

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Proved Mineable Reserve : 22,22,700 tonne

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

1 st Year	:	1,95,134 tonne
2 nd Year	:	1,95,010 tonne
3 rd Year	:	1,95,118 tonne
4 th Year	:	1,95,056 tonne
5 th Year	:	1,95,070 tonne

The daily production as per Form-I is 650 tonne.

The indicated project cost is Rs 1.80 Crore and a provision of Rs 6.50 Lakh has been indicated for Environment management.

The DFO, Wildlife Hazaribagh vide letter no. 2033, dated 21.09.19 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

The DFO, Sahebganj Division vide letter no 801, dated 15.06.2019 certified that the distance of notified forest is 300 m from proposed project site.

The CO, Sonahatu (Ranchi) vide letter, dated 18.02.19 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in R.S Khatyan & Register II.

DMO, Sahebganj vide memo no. 95, dated 22.01.19 certified that no other lease is exists within 500 m radius from proposed project site.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Amarpur Mako-2 Stone Mine of M/s Geeta Stone Works (Prop. : Sri Deepak Kumar Chaudhary) at Vill. : Amarpur Mako-2, Tehsil : Barhait, Dist. : Sahebganj (2.985 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure -II.

9. **Tetriya Stone Deposit of M/s Dadi Maa Stone Works at Vill :Tetriya, P.S.: Taljhari, Dist : Sahebganj (3.995 Ha).**

(Proposal no. : SIA/JH/MIN/42317/2019)

This is a Stone Mining Project with an area of 3.995 Ha [Khata no. : 7,8,1,2, Plot no. : 17 (P), 18, 19 (P), 34 (P), 36 (P)]. The latitude and longitude of the project site is 25°02'38.00"N to 25°02'43.81"N and 87°42'07.36"E to 87°42'14.78"E. The nearest railway station is Taljhari at a distance of 10 km and nearest airport is Kolkata, Netaji Subhash Chandra Bose Airport at a distance of 400 km. Total water requirement is about 16 KLD. Water will be taken from nearby village (Dug wells).

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	27,23,952 tonne
Probable Mineable Reserve	:	79,800 tonne

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

1 st Year	:	2,80,278 tonne
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2 nd Year	:	2,80,728 tonne
3 rd Year	:	2,80,746 tonne
4 th Year	:	2,80,956 tonne
5 th Year	:	2,80,278 tonne

The daily production as per Form-I is 937 tonne.

The indicated project cost is Rs 44.00 Lakh and a provision of Rs 2.20 Lakh has been indicated for CSR.

DFO, Wildlife Hazaribagh vide letter no. 1688, dated 21.08.19 certified that the Udhwa Lake Bird Sanctuary is 11195 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. 1797, dated 15.09.17 certified that the distance of notified forest is 270 m from proposed project site.

The CO, Taljhari vide letter no. 05/2019, dated 28.08.19 has mentioned the plots of the project are not recorded as "Jangle Jhari" in Nakal Khatian Register II.

DMO, Sahebganj vide memo no. 189, dated 23.01.18 certified that no other lease is exists within 500 m radius from proposed project site.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Tetriya Stone Deposit of M/s Dadi Maa Stone Works at Vill :Tetriya, P.S.: Taljhari, Dist : Sahebganj (3.995 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II**.

10. Expansion of Existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to various Forgings 60000 TPA for M/s Ramkrishna Forings Limited – Plant 1 at Plot No.- M5 & M6 , 6th Phase, Adityapur Industrial Area, Gamhria, Dist. : Saraikela-Kharsawan.

(Proposal No. : SIA/JH/IND/25007/2019)

The proposal was considered by the committee in its 63rd meeting held on 05-06.11.2018 and recommended for ToR. ToR was granted by SEIAA vide letter no. EC/SEIAA/2018-19/2083/2018/309, dated 13.12.2018. Public Hearing of the project was conducted on 20.09.2019. The final EIA / EMP was submitted by the PP to SEIAA on 15.10.2019 and forwarded to SEAC on 15.10.2019.

M/s Ramkrishna Forging Limited Plant – 1, proposes for the expansion of the existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to various Forgings 60000 TPA. It will be improved combination of Engineering-cutting shop, smithy shop, and heat treatment. Proposed expansion site is located in Plot-M6, M5, Phase-VI, Adityapur Industrial Area, Gamharia, and District – Saraikela-Kharsawan in the state of Jharkhand. The site falls under the Survey of India Topo sheet No. 73 J/1. The Latitude and Longitude of the site is 22° 48' 12.67" N and 86° 07' 11.35" E respectively. Expansion is proposed in the existing land of 4.72 acres.

Salient Features :

1.	Project Proposal	Expansion of the existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to Various Forgings 60000 TPA.
2.	Name of the company	M/s Ramkrishna Forging Ltd, Plant -1.
3.	Area of plant	4.72 Acres (1.91 ha)
4.	Location	Plot-M6, M5, Phase-VI, Adityapur Industrial Area, Gamharia, and District – Saraikela-Kharsawan, Jharkhand. Latitude and Longitude - 22 ⁰ 48' 12.67" N and 86 ⁰ 07' 11.35" E.
5.	Proposed capacity	Various Forgings 60000 TPA.
6.	Cost of project	89.03 Crores
7.	Raw material & Fuel requirement	Billets/Rounds of Various grades of Steel – 71500 TPA. Furnace Oil – 5150 KL/year Diesel Oil – 250 KL/year Oil for Quenching – 10 KL/year.
8.	Manpower requirement	Total – 750 Managerial – 34, Skilled – 241, Semi-Skilled – 73, Unskilled – 402.
9.	Water requirement	150 KLD Source – Bore well.
10.	Power requirement	9.5 MW, Power source from JUSCO.
11.	Nearest Railway Station / Airport along with distance in Kms.	Gamharia – 1.75 Km Sonari Airport – 4.6 Km
12.	Nearest Town, City, District Headquarters along with distance in kms.	Gamharia – 2.25 km District Headquarter – 26.4 Km

Land use breakup

SL No	TYPE OF USE	AREA (acres)	AREA (ha)
1	Plant area (existing + expansion)	3.57	1.44
2	Entrance, Roads and Pavements	0.56	0.23
3	Storage yard, vacant area etc.	0.34	0.14
4	Water complex & RWH	0.15	0.06
5	Green Belt	0.10	0.04
	TOTAL	4.72	1.91

The area falls under notified Industrial Area which has been approved for non-forest use as per letter of Deptt. of Forest, Govt. of Jharkhand, letter no. van bhumi – 47/2009 – 1910, dated 01.07.2009.

The configuration of proposed plant is as below:

Existing Unit -

Plant/Unit	Item of manufacture	Existing Capacity per Annum
Forging unit with Hammers, Pneumatic Hammers & Up-Settler	Auto Components	3000 TPA
	Engineering Items	600 TPA
	Export items (Auto Components+ Engineering items)	754000 Nos./yr

1. Proposed configuration after expansion-

Plant Facilities - addition	Product - addition	Capacity - addition per Annum
Various Forgings (Hammers, Pneumatic Hammers & Up-Settler)	Various Forgings	60000 TPA
Matching oil furnace based Heat Treatment Line		

Raw material requirement of the project, their source and transportation is as below:

Raw Materials	Grade of Raw Material	Weight in TPA	Mode of Transport
Billets and Rounds of Various grades of Steel	Mix Grade Alloy Steel	71500	Road – By trucks & Trailers
Consumables			
For Process & Heat Treatment	Furnace Oil	5150.0 KL/year	Road – By Tankers
	Diesel Oil	250.0 KL/year	Road – By Tankers
	Oil for Quenching	10.0 KL/year	Road – Trucks in drums

Management Plan for Solid Waste generated from the proposed project will be as below:

Particulars	Wt. of Raw Material	Wt. of Product	Wt. of scrap/ Reject
Steel Cutting & reject	71500	60000	11500
a. Rejects generated at RM inspection	Returned to supplier		

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b.	Rejects/scrap (short length) generated at Cutting section	Re-used for other product or stored in covered shed and sold for recycle to supplier/other steel making industries
c.	Scrap generated during process & machining	Properly stored in covered shed and sold for recycle to supplier/other steel making industries
d.	Hazardous waste (solid or liquid) generated will be stored properly and disposed to registered recyclers as per Hazardous & Other Wastes (Management, Handling & Transboundary Movement) Rules 2016	

Baseline Environmental Studies were conducted during winter season i.e. from December 2018 to February 2019. AAQ monitoring at 8 locations indicates that the concentration of PM₁₀ ranges from 54.40 µg/m³ to 85.80 µg/m³ and average PM_{2.5} data ranges from 21.80 µg/m³ to 43.50 µg/m³. Also average SO₂ is in ranges from 5.20 µg/m³ to 16.20 µg/m³, average NO₂ data ranges from 19.40 µg/m³ to 46.30 µg/m³, CO data ranges from 0.54 mg/m³ to 0.98 mg/m³. Concentrations of the AAQ parameters were within NAAQS limits. The result of the modelling study indicates that the maximum increase of GLC for the proposed project is 3.20 µg/m³ with respect to the PM₁₀, 1.03 µg/m³ with respect to the SO₂ & 1.11 µg/m³ with respect to the NO_x.

Ground Water Quality has been monitored in 8 locations in the study area and analysed. All parameters also found within the limits of IS:10500. Surface water Quality has been monitored in 4 locations in the study area and analysed. Parameters values ranged from - pH 7.32 to 7.84; DO 5.8 to 6.9 mg/l and BOD: 10.47 to 18 mg/l. All parameters also found within the limits of "Class - C" surface water.

Noise levels are in the range of 50.84 to 72.58dB(A) for daytime and 41.62 to 63.73 dB(A) for night time.

There are no people residing in the core zone of the project. No R&R is involved. It has been envisaged that no families are to be rehabilitated for the project.

Public hearing for the project was conducted on 20.09.2019 by JSPCB at Adityapur Small Industries Association, Plot- M-5 (Part), Adityapur-Kandra Road, Adityapur, Dist - Saraikela-Kharsawan in the chairmanship of Shri Subodh Kumar, Additional District Magistrate (Law and Order). The issues raised by the public and response of the project proponent with action plan has been provided.

Budget for CER is Rs 90.00 Lakhs for implementing Enterprise Social Commitment.

Proposed CER/ESC Activities (based on public hearing issues and need based):

S. No.	Area of Concern	Action Plan	Budget Allocated (in Rs. Lakhs)
1)	Employment	• Vocational Training for Skill development for self-employment	30.00
2)	Health Care	• Health Care Centre & Camp	18.00
3)	Education	• Educational support to students & improving infrastructures in	12.00

S. No.	Area of Concern	Action Plan	Budget Allocated (in Rs. Lakhs)
		school	
4)	Drinking water & Sanitation	• Rain Water Storage tanks and Hand Pumps at nearby village	6.00
5)	Green cover Plantation	• Plantation along road side and in nearby villages	6.00
6)	Community Development & Cultural	• Maintenance of community halls, temples etc.	6.00
7)	• Other as per suggestion of Local Bodies		12.00
Total for CER (1% of Project Cost – as per OM, dt 01.05.2018)			90.00

Proposed ESC activities will be implemented within a span of 3 years along with implementation of the plant.

SL No	ITEM DESCRIPTION	CAPITAL INVESTMENT (Rs. in Laacs)	RECURRING COST PER YEAR (Rs. in Laacs)
1	Water Sprinkling System	3.00	0.60
2	Handling disposal of Solid Wastes	12.00	3.00
3	Green Belt & Plantation	1.50	0.60
4	Effluent Treatment Plant, RWH, others	10.00	3.00
5	Handling disposal of Hazardous Wastes	9.00	3.00
6	OHS Survey, Monitoring & Management	3.00	1.20
	TOTAL	38.50	11.40

The Capital Cost of the Project is Rs. 89.09 Crores and the capital cost for environmental protection measures is proposed as Rs. 38.50 Lakhs . The annual recurring cost toward the environmental protection measures is proposed as Rs. 11.40 Lakhs. The details of capital cost for environmental protection measures and annual recurring cost towards the environmental protection measures is as follows:

Note - Implementation of above EMP will be carried out along with installation of plant and completed prior to commissioning except for the Occupational health & Green Belt. There is no court case or litigation relating to environment against the unit.

DFO, Saraikela Division vide letter no. 1585, dated 03.08.18 certified that the distance of notified forest is 0 (Zero) m from proposed project site.

PP & the consultant have presented the EIMP report as per the point was replies of Tor conditions.

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The public hearing details have been submitted and discussed in the meeting.

The PP Committee suggested to increase the plantation from the present start the plantation immediately before taking up the expansion work.

Based on the presentation made the committee recommends to SEIAA for consideration of E.C. as per the follow up conditions as shown in Annex ~~III~~ VI

11. **Expansion Project of Rolling Mill from TMT Bars 29700 TPA to TMT Bars – 180000TPA with Coal/Oil Fired Re-heating Furnace of M/s Mohit Ventures Pvt. Ltd. at Vill. : Gumo, Gujhandi Road, Tehsil – Jhumretaliya, Dist. :- Koderma, (2.18 Ha).**
(Proposal No. : SIA/JH/IND/37950/2019)

M/s. Mohit Ventures Private Limited proposes to install a High Speed Rolling Mill with coal/furnace oil fired reheating furnace with final installed capacity of 180000 TPA from the existing capacity of 29700 TPA. The project will procure the raw materials from open market and coal pulverizer will be installed for uniform feed to reheating furnace. The cost of the project is estimated to be Rs. 2870.00 Lacs.

Environment Clearance for the existing unit not required as this is a secondary metallurgical unit with capacity less than 30000 TPA. CTE for the plant has been obtained from JSPCB on 25.05.2016 and Current CTO obtained for Rolled Products 29700 TPA from JSPCB vide Ref No. JSPCB/HO/RNC/CTO-2304900/2019/1193, dated 24.06.2019 valid up to 30.06.2020.

Project Profile

Name of the Company	Mohit Ventures Pvt. Ltd.
Project	Expansion project
Address of the Company	Plant : Gumo, Gujhandi Road, Industrial Area, Ward No 1, Jhumretaliya, District -Koderma, Jharkhand
Units &Product	<u>EXISTING</u> TMT BARS 29700 TPA Rolling Mill with Coal/Oil fired re-heating furnace Existing Land Area- 5.40 Acres (2.18 ha) <u>PROPOSED FINAL CAPACITY</u> TMT BARS - 180000 TPA, Rolling Mill With Coal/ Oil Fired Re-Heating Furnace Within Existing Land Area- 5.40 Acres (2.18 ha)
Land Area	Total 5.40 acres (2.18 Ha).
Total Power Requirement	Total Power requirement After Final Expansion – 4 MW Source - DVC
Man Power Requirement	After Expansion – 70 numbers
Water Requirement	166 KLD. Source – Ground water through borewells

Estimated cost of plant	2870.00 Lacs
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Site Location

This project will be located at village- Gumo, Gujhandi Road, Jhumretaliya, Distt: Koderma in the state of Jharkhand over an area of 5.40 acres (2.18 ha.). The Latitude and Longitude of the proposed site is 24° 25' 09.26" N and 85° 29' 30.51" E respectively.

Process flow description

Section	Technology	Process flow
Rolling Mill (TMT Bars)	Re-heating furnace & Rolling Mill	Heating of billet in coal/oil fired furnace → Billet Charging → Roughing Mill → Intermediate Mill → Finishing Mill → Quenching → Cooling Bed → Storage & dispatch

Raw Material Requirement

Proposed Rolling Mill: TMT Bars – 546 TPD = Final 180000 TPA			
Raw material	PROPOSED TPD	FINAL CAPACITY	Source
MS Billets	568 TPD	187440 TPA	Ramgarh/ Gola
Fuel for Reheating Furnace: Coal or Oil			
Coal Or Oil	Coal –39.0 TPD Or Oil – 20.0 KLD	Coal - 12870 TPA Or Oil – 6600 KL/Year	Jharkhand

Water and Power Requirement

The total water requirement for the proposed project is estimated to be 166 KLD which will be sourced through ground water. A total of 04 MW power will be required for the proposed project which will be sourced from DVC.

Solid Waste Generation and Management

Quantity of solid waste generation is estimated. Scrap and cuttings will be sold to induction furnace unit for re-use. The solid waste is not hazardous in nature.

Dust from Bag filter and other APC system	-	165 TPA
Scrap/Cutting from Rolling Mill	-	7095 TPA

Hazardous waste: There is no hazardous waste from the plant except for used oil 0.2 KL from equipment, which is saleable to the registered recyclers in the market.

Consultant engaged

Visiontek Consultancy Services Private Limited, Bhubneswar. Having the NABET Accreditation as - NABET/EIA/1720/RA 0090(Rev1). Dated 28.05.2018 and QCI Sl. No.- 161 (As per list of accredited consultants. October 2019).

DFO, Wildlife Hazaribagh vide letter no. 1202, dated 20.06.19 certified that the Koderma Wildlife Sanctuary is 6880 m from project site and not within 10 km from National Park. Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

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DFO, Koderma Division vide letter no. 1569, dated 25.04.19 certified that the distance of notified forest is 400 m from proposed project site.

The CO, Koderma vide memo no. 48, dated 07.06.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

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 04 - 07th November, 2019, the Committee recommends the SEIAA for issuing of TORs for undertaking detailed EIA / EMP study. The ToR points are enclosed as Annexure - III.

12. Expansion and modernization of existing plant to Induction Furnaces 4x12 T (Billets/Ingots – 158400 TPA) with Slag Crusher – 52800 TPA and Rolling Mill 158400 TPA for Jai Prabhuji Iron & Steel (P) Limited at Village –Kandra Industrial Area, Govindpur, Tehsil – Govindpur, Dist : – Dhanbad.

(Proposal no. : SIA/JH/IND/37479/2019)

Jai Prabhuji Iron & Steel Ltd. proposes for Expansion & Modernization of existing plant of – M.S. Billets 36000 TPA to Final Configuration of Induction Furnaces 4x12T (Billets/Ingots- 158400 TPA) with Slag Crusher- 52800 TPA and Rolling Mill 158400 TPA in 2 phases.

Environment Clearance for the existing unit has been obtained vide Letter No. J-11011/180/2010-IA-II(I), dated 13.07.2011 for MS Ingots 36000 TPA and Silico Manganese 15000 TPA. Subsequently under section 7 (ii) of EIA Notification the modification was undertaken to change the ingot production to Billets Production of same capacity i.e. 36000 TPA. Proposal for Silico Manganese was dropped. Current CTO obtained for Billets Production 36000 TPA from JSPCB vide Ref No. JSPCB/HO/RNC/CTO-3706288/2018/169, dated 30.10.2018 valid up to 31.12.2023.

Project at a Glance

1	Name of the Company	Jai Prabhuji Iron & Steel Limited
2	Address of the Company	Plot No C-21 to C-25, Kandra Industrial Area, Govindpur, District – Dhanbad, Jharkhand
3	Constitution	Private Limited Company
4	Promoters Of The Project	1. Prabhu Narayan Singh 2. Raj Kumar Choudhary 3. Nawdeep Khaitan 4. Kailash Goyal 5. Sushil Singh 6. Rajendra Singh Chhabra
5	Units & Product	<u>EXISTING</u> Induction Furnace (Billets/Ingots) -1x3T + 2x6T – 3600 TPA <u>PROPOSED, PHASE 1</u>

		<p>Induction Furnace (Billets/Ingots) -1x3T + 2x6T – 49500 TPA</p> <p>By upgrading supply panel and reducing thickness of lining to increase holding capacity. Increasing number of heats per day to 10 and 330 working days.</p> <p>Addition of Slag crusher 10 TPH -52800 TPA</p> <p><u>PROPOSED PHASE 2</u></p> <p>Induction Furnace 1x3T + 2x6T to be replaced by 3 x 12T</p> <p>Addition of 1x12T Furnace. Total Billets/Ingots – 158400 TPA</p> <p>Addition of Direct Hot Charging Rolling Mill – 158400 TPA</p> <p><u>PROPOSED FINAL CONFIGURATIONS: AT 330 OPERATING DAYS</u></p> <p>Billets/Ingots– 158400 TPA</p> <p>Rolling Mill – 158400 TPA</p> <p>Slag Crusher – 52800 TPA</p>
6	Total Power Requirement	<p>Existing Power Sanctioned – 9.5 MVA</p> <p>Total Power requirement After Final Expansion –25 MVA</p>
7	Man Power Requirement	<p>Present- 80 numbers</p> <p>After Expansion – 150 numbers</p>
8	Land Area	<p>3.38Acres (1.37Ha) existing. Additional 1.50 acres acquired.</p> <p>Total 4.88 acres (1.975 Ha). Full Land is in possession. Entire land in in industrial area.</p>

Site Location

This project is located in Kandra Industrial Area over Plot Nos C-21, C-22, C-23, C-24, C-25 P.O. Govindpur, District- Dhanbad in the state of Jharkhand over an area of 4.88 acres (1.975 ha). The Latitude and Longitude of the proposed site is 23° 50' 55.49" N and 86° 28' 43.00"E respectively.

Project Profile

Existing and Proposed Units

Plant	Existing installed Units		Proposed Phase-1 Expansion		
	Unit	Capacity TPA	Unit	Operation Days	Capacity TPA
Steel Melting Shop Induction Furnace	1x3 Tons + 2x6 Tons	120 TPD (36000 TPA)	1x3 Tons + 2x6 Tons (By upgrading panel and reducing lining	330	49,500

Continuous Casting Machine (CCM)	2 Strand, 4/7m rad	120 TPD (36000 TPA)	thickness) 2 Strand, 4/7 m radius(existing)	330	49500
Slag Crusher Unit	-	-	1 x 10 TPH	330	52800 TPA (Metal Recovery - 5280 TPA)
Proposed Phase-2 Expansion					
Steel Melting Shop	1x3 Tons + 2x6 Tons	150 TPD (49500 TPA)	4x12 Tons Existing furnaces to be replaced & addition of one new furnace	330	158,400
Induction Furnace	2 Strand, 4/7m rad	49500 TPA	2 Strand, 6/11m	330	158,400
Continuous Casting Machine (CCM)					
Reheating Furnace			1x30 TPH	330	99000
Rolling Mill			480 TPD	330	158400

Process flow description

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 & cooling → dispatch. Other outputs : Slag from Induction Furnace
Rolling Mill	Direct Rolling of hot billets/Ingots/Re-heating	Feeding of hot billets/Ingots → roughing strands → rolling → cutting & bundle → dispatch
Slag Crusher	Crushing of slag & Metal recovery	Feeding of Slag→Primary crusher→Screening →Metal recovery in magnetic separator→ disposal of crushed slag

Raw Material Requirement

Raw Materials	Required materials for Per Ton of product	Total Raw materials required After Expansion	Source
Billets/Ingots (Total production: 158400 TPA)			

Sponge Iron	0.800	126720 TPA	Local Plants in vicinity Through Road
Pig Iron	0.300	47520 TPA	
Scrap	0.150	23760 TPA	In-house & nearby Plants. Through Road
Ferro Alloys (SiMn/FeSi)	0.002	317 TPA	Local Plants in vicinity Through Road
Rolling Mill – TMT Bars/Strips(Total production: 158400 TPA)			
Hot Billets/Ingots/M.S. Billets/Ingots	1.00	158400 TPA	158400 TPA. In-house – Ho Billets/Ingots direct charging & rest from nearby Plants. Through Road
Coal/Furnace Oil for re-heating furnace	0.07	11088 TPA/3300 KL	Purchase from open market

Water and Power Requirement

The total water requirement for the proposed project is estimated to be 170 KLD which will be sourced through ground water. A total of 25 MVA power will be required for the proposed project which will be sourced from DVC.

Solid Waste Generation and Management

Units	Solid Wastes	Qty In TPA	Disposal practice
Induction Furnace	Slag	39600	After metal extraction it will be supplied to flyash bricks manufacturing.
Rolling Mill	Mill Scale	3168	Recycled in-house along with scrap in the induction furnace.
Re-heating furnace	Ash & Bag filter dust	2100*	Supplied to fly ash block manufacturers. *No generation if furnace oil is used.
Bag Filter Dust from process	Dust from process	480	Partly recycled (metal content). Rest supplied to fly ash bricks manufacturing.

Hazardous waste: There is no hazardous waste from the plant except for used oil (approx. 300 lit/year) from equipment, which is saleable to the registered recyclers in the market.

Rehabilitation and Resettlements (R & R) Plan

No R & R involved.

Project Cost

Total un-depreciated cost of the existing project as on 31.3.2019 is Rs. 6.60 Crores. An indicative total project cost after expansion/modernization of the plant is envisaged as Rs. 22.05 Crores. (i.e. Rs.6.60 Crores + Rs.15.45 Crores)

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DFO, Wildlife Hazaribagh vide letter no. 1347, dated 11.07.2019 certified that the Topchanchi Wildlife Sanctuary is 26860 m from project site and proposed project is not within 10 km from National Park, Bio-Diversity & Sanctuary and not situated in any ESZ.

The DFO, Dhanbad Division vide letter no. 1678, dated 06.11.18 certified that the distance of notified forest is 2037 m from proposed project site.

The CO, Govindpur vide letter no. 634, dated 05.07.19 has mentioned the plots of the project are not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

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 04 - 07th November, 2019, the Committee recommends to SEIAA for issuing of TORs for undertaking detailed EIA / EMP study. The ToR points are enclosed as Annexure - III.

Day 2 : November 05, 2019 [Tuesday]

Consideration of Proposals

1. Construction of 500 bedded Government Hospital of Jharkhand State Building Construction Corporation Ltd. at Vill. : Kolghati I, Anchal :Sadar, Dist. : Hazaribagh.
(Proposal No. : SIA/JH/NCP/74878/2018)

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 latitude and longitude of the project site is 24° 0' 54.01" N to 24° 0' 55.99" N and 85° 21' 44.66" E to 85° 21' 48.62" E.

Salient Features of the project :

S. No.	Block No.	Particulars	Total (m ²)
1.	-	Total plot area	101171.45 (25 acres)
2.	-	Permissible Ground Coverage (@50% of Total Plot area)	50585.72
3.	-	Total Proposed Ground Coverage (@25.06% of Total plot area)	25357.42
4.	-	Proposed Ground Coverage for Hospital Building (@9.066% of Total plot area)	9172.75
5.	-	Permissible FAR @2.5	252928.625
6.	-	Proposed FAR @1.30	131850.11
7.	B+G+6	Proposed FAR for Hospital Building @0.566	56293.6
8.	G+1	Proposed 500 Capacity auditorium	2542.01

9.	S+8	Proposed Type 3 Residence	5591.36
10.	S+5	Proposed Resident Doctors Hostel	3524.28
11.	G+5	Proposed Intern's Hostel	3644.33
12.	G+1	Proposed Type 6 (Dean/MS Residence)	906.5
13	G+6	Proposed Nurse Hostel	4002.05
14.	G+3	Proposed Guest Hostel	1491.34
15.	G+1	Proposed Student Recreational Block	585.19
16	G+1	Proposed ESS & UGT	1306.5
17.	G	Proposed Guard room	14.4
18.	-	Proposed STP & ETP	383
19.	G+4	Existing Medical College	24794.0
20.	G+8	Existing Girls Hostel	8935.0
21.	G+8	Existing Boys Hostel	8935.0
22.	S+8	Existing Type - 4 (Block 1)	4952.0
23.	S+7	Existing Type - 4 (Block 2)	4333.0
24.	-	Proposed Basement Parking area for Hospital	4780.0
25.	-	Total Built Up Area (BUA) for Hospital (7+16+17+18+24)	62775.5
26.	-	Open Area (Total Plot Area - Ground Coverage)	75814.03
27.	-	Proposed Landscape Area (25.59 % of Open Area)	19403.330
28.		Height of the Hospital Building (m) (G+6)	29.50
29.	-	Project cost	509.14 crores

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S. No.	Description	Particulars	Unit
GENERAL			
1.	Total Plot Area	101171.45	SQM
2.	Ground Coverage of Hospital	9172.75	SQM
3.	Proposed Built Up Area of Hospital component	62775.5	SQM
4.	Building Blocks	Hospital Building, ESS & UGT, Guard room, STP & ETP.	
5.	Max Height of Building up to terrace level	29.50	M
6.	Max No of Floors for hospital building only	S+G+6	NOS
WATER REQUIREMENT FOR HOSPITAL COMPONENT			
7.	Total fresh water requirement	195	KLD
8.	Total sewerage generation	241	KLD
9.	Proposed ETP Capacity	50	KLD
10.	Proposed STP Capacity (SBR Type)	300	KLD
PARKING FOR HOSPITAL COMPONENT			
11	Required Parking for Hospital Building as per Jharkhand Bye Laws	34	ECS
12	Total Proposed parking	137	ECS
GREEN AREA FOR TOTAL PROJECT SITE			
13	Proposed Green Area 19.17 % of total plot area	19403.330	SQM
WASTE GENERATION FOR HOSPITAL COMPONENT			
14	Total Solid waste generated	942.176 kg/day	Kg/day
15	Biomedical Waste	25 % of Total Waste=235.75	Kg/day
POWER FOR HOSPITAL COMPONENT			

16	Total Power Requirement	2921.8	KW
17	DG set backup	1500*2=3000	KVA
RAIN WATER HARVESTING FOR HOSPITAL COMPONENT			
18	Rain water Harvesting Pits (in total plot area)	21	NOS

POPULATION DETAILS FOR HOSPITAL COMPONENT

S. No.	Particulars	No. of beds	PPU/no. of person/m ²	Total Population
1.	Patients	500	1- person per 1 bed	500
2.	Attendant	500	1-person per 1 bed	500
3.	Out Patient Department (OPD)			2000
4.	Staff (Doctor+ Nurse + Helper)			500
5.	Visitors (20% of Hospital Population i.e. 500)			100
Total Population				3600

DAILY WATER DEMAND FOR HOSPITAL COMPONENT :

S. No	Description	Area (sq. mtr)	No. of Beds / Occupancy	Rate of water demand for domestic (@lpcd)	Water Requirement for Domestic (KLD)	Rate of water demand for Flushing (@lpcd)	Water Requirement for Flushing (KLD)	Total Water Requirement Domestic + Flushing (KLD)
A.	Hospital Building							
1	Patients + Attendant + Staff + visitors		500	300	150	150	75	225
2	Out Patient Department (OPD)		2000	10	20	5	10	30
3	Laundry + Kitchen		500	50	25	0	0	25
Total Domestic Water Requirement								280.0
B.	Horticulture	19403.330	3 liter for 1 sq. mtr					58.2 say 58

C.	DG Set	3000 KVA (2*1500 KVA)	0.9*KVA* 8 Hours	21.6
D.	HVAC	430 (TR)	10*Capacity* 12 hours	51.6
Total Water Requirement				411.2
				Say 411 KLD

Waste Water Management :

The STP proposed for the total project is of 550 KLD of SBR technology (developed module wise).

The ETP proposed for treatment for the effluents will be of capacity 50 KLD.

The requirement of STP capacity for the Hospital component only is 300 KLD out of 550 KLD.

The wastewater estimated for the hospital component is 241 KLD which will be treated in STP.

There will be a provision of separate and dedicated lines of plumbing from OT, Labs and other photogenic sources that are high in COD, which will be diverted to ETP of capacity 50 KLD designed to meet the discharge standards of landscaping and horticulture.

Brief description of Effluent Treatment Plant (ETP) for proposed Hospital (50 KLD)

Effluent Treatment Plant :

The effluent from different laboratories, OT and hospital will be treated in ETP having following units:

Primary unit

The primary unit consist of screening and equalization tank. The raw hospital/lab. effluent will pass through the bar screen chamber. The Bar Screen has narrow slits that capture the material and further the effluent pass into the equalization tank where prechlorination and aeration will be done.

Secondary treatment

In secondary treatment i.e. Physico-chemical treatment the effluent from equalisation tank will come into the Reaction tank where Fenton's reagent will be mixed at low pH which work as an high oxidizing chemical and oxidize all the possible bacteria and virus and infectious units. Deep oxidation of bacteria will take place for 10-15 min , after that Neutralization process will be carried out and followed by Polymer dosing for better flocculation and coagulation.

Tube settler-The effluent will be settled in the tube settler and sludge will be settled down here and supernatant will be collected from the top to intermediate storage tank

Disinfection unit- The oxylite dosing will be carried out in the intermediate storage tank to disinfect .Rare possible bacteria after deep oxidation in the reaction tank. The process does not generate any carcinogenic chloro-organic compounds.

Tertiary treatment-

MGF-Multi grade filter will remove the possible particle in the treated effluent which pass through UV system before using for horticulture purpose or public sewerage system (Treated effluent 50 KLD max.).

Sludge-The ETP sludge will be handled in the Filter press and dispose off as per the provision of Hazardous Solid waste management rules.

Solid Waste Management :

S. No	Category	Kg per capita per day	Waste generated (kg/day)
1	Patient + Attendant	1000 @ 0.5 kg/day	500
2	Staff	500 @ 0.25 kg / day	125
3	Visitor +OPD	2100 @ 0.15 kg /day	315
4	Landscape waste (54992.337 m ²)	13.58 @ 0.2 kg/acres	2.716
Total Solid Waste Generated			943 kg/day

Total Bio medical waste is 25% of total solid waste i.e. 235.75 kg/day

Total E-waste generation is 1 % of total solid waste i.e. 7.07 kg/day

1. Municipal Solid waste : Organic wastes shall be collected at site marked and disposed off through authorized recyclers
2. Hazardous waste: Waste oil will be disposed off through authorized recyclers.
3. Biomedical waste: Waste will be disposed off through BMW facility .
4. Construction Waste: will be used on site as filler material for covering open spaces such as internal roads and pavements remaining construction waste if any will be sent to an approved dumping site.

SOLID WASTE GENERATION (Component Wise)

S. No	Waste	Quantity Kg/day	Percentage
1	Biomedical waste	235.75	25
Rest remaining MSW		707.25	
kg/day			
2	Bio degradable waste -	353.62	50
3	Non-bio degradable	282.90	40
4	Other inert waste	63.65	9
5	E-waste	07.07	1

Rain Water Harvesting for the Hospital Component :

S.NO.	DESCRIPTION	DETAILS	UNIT
A	Terraces areas - Volume of runoff		
1	AREA	25888.59	SQM
		2.588859	HECTARE
2	RAINFALL (One Hour)	25	mm/Hr
3	COEFFICIENT	0.8	
4	DISCHARGE AS PER RAINFALL INTENSITY (Q)	517.77	CUM/Hr
B	Paved, Road, Parking, Private terrace areas - Volume of runoff		
1	AREA	60172.54	SQM
		6.017254	HECTARE
2	RAINFALL (One Hour)	25	mm/Hr
3	COEFFICIENT	0.7	
4	DISCHARGE AS PER RAINFALL INTENSITY (Q)	1053.02	CUM/Hr
C	Landscaped & green areas - volume of runoff		
1	AREA	12376.84	SQM
		1.237684	HECTARE
2	RAINFALL (One Hour)	25	mm/Hr
3	COEFFICIENT	0.2	
4	DISCHARGE AS PER RAINFALL INTENSITY (Q)	61.88	CUM/Hr
D	Total for all areas - volume of runoff & Calculation for RWH		
1	Total Volume of runoff generated from the proposed campus (A+B+C)	1632.68	m ³
2	Percolation of Rain Water through harvesting pit 10% of total discharge	163.27	m ³
3	Balance Volume of rainwater discharge capacity.	1469.41	m ³
4	Size of the Rain Water Harvesting Pit Structure for 60 minute storage (Dia.of Pit-4.5m & effective depth-4.5m)	1469.41	m ³
5	Volume of a single circular recharge pit	71.53	m ³
6	Hence No. of pits required	21	Nos

Energy Saving Measures :

Use of local building material to reduce pollution & transportation energy.

All the pumps shall have minimum efficiency as per ECBC norms

Energy efficient building envelope-use of fly ash bricks/AAC blocks for external walls

Insulation to roof.

Programmable switching arrangement for external lighting to prevent wastage of energy.

Energy efficient lighting fixture LED lamps to be provided in common areas.

Adequate solar panels will be installed to conserve energy.

ECBC norms shall be complied.

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

DFO. Wildlife, Hazaribagh vide letter no. 273, dated 06.02.2019 certified that Hazariabgh Wildlife Sanctuary and Eco Sensitive Zone is within 10 km from proposed project site and National Park / Bio-Diversity not within 10 km. Since the distance of site is less than 10 km from the Wildlife Sanctuary. PP has submitted an application the National Board for Wild Life (Proposal No. : FP / JH / Others/ 4278 / 2019) and submitted the acknowledgment for the receipt of proposal.

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

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

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

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

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

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

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

The SEAC has follow observation :-

- i. Proposal submitted is comprising of combined drawings of Medical College Complex, Hospital Building & other buildings. It is not clear as to whether the project area of 25 acres (101171.45 sqm) where the Hospital building & other buildings for which EC proposal has been submitted is situated on said plot. A separate drawing showing plot required for project area of Hospital Building & other buildings and related infrastructures, for which EC has been sought over the project area with co-ordinates and Contours may be submitted.
- ii. It is clear from Drg no. ECCF/SPCL/HMCP/TS/17/2610 that in the proposed site for Hospital building to waterbodies are existing. On field visit, it was found that on of the

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waterbody has been partially filled up to construct Hospital related structures without taking prior EC. This amounts to violation of provisions of E(P) Act / EIA notification, 2006. The PP may clarify their position.

- iii. Similarly, the coordinates given in Table - 1 page no. 62 of the EIA report, when plotted on Google Earth Image shows already constructed structures in the project area. This also amounts to violation of provisions under E(P) Act and EIA notification, 2006.
- iv. The two roads of width 9 m and 7.5 m (existing & proposed) running from west to east inside the plot & the various infrastructures being constructed/proposed to be constructed along these two roads like Storm water drains, Sewer line, Rain water harvesting pits, domestic water supply lines etc, are serving the basic necessity of Hospital Building proper. ETP & STP etc for which the PP has submitted the proposal and these constructed structures cannot be treated in isolation.
- v. Construction of these roads, the above stated infrastructures and also the embankment required for roads & site filling upto 102 m level has resulted/resulting in encroachment of about 40% of pond area from approximately 8795 sqm to 5372 sqm (as elaborated in point no. 4 below). this amounts to construction of infrastructure required for Hospital Building without taking prior EC, which amounts to violation of provisions of E(P) Act / EIA notification, 2006. It requires clarification from PP.
- vi. The dimension of original existing pond in the western half of the plot has been mentioned as 124.44mX76.70m/64.65m i.e. having surface area (plan area) of appx. $124.44\text{m} \times 70.675\text{m} = 8795\text{ sqm}$ in drawing sheet 01 submitted by PP and the same drawing indicates existing pond, as per current survey to have a size of 70.04 m X 76.70 m = 5372 sqm i.e. a reduction of $(1 - 5372/8795) \times 100 = 39\%$ approx. of surface area.
- vii. The original contour plan submitted by the PP (Drg no. ECCF/SPCL/HMCP/TS/17/2610 of 2017) indicates existence of Pond/water body of irregular shape in the eastern half of the plot. This drawing is basically a contour plan of site which also is not showing continuity of contours through pond & water bodies as per established norms.
- viii. The Hospital building, as per layout drawing submitted by the PP has been proposed to be located over this water body covering about 65% of water body surface area (as could be assessed visually). During site visit, the above stated water body as per drawing no. 2610 has been observed to be in dry condition with growth of grass & other vegetation on it. The PP has now mentioned this water body as "LOW LYING AREA" in the revised proposal, as it is dry now. The PP has carried out contour survey after SEAC's site visit and has submitted revised contour plan including this area as well, from which it appears that 94.5 m is the lowest level in it, requiring about 7.5 m earth filling for achieving the finished terrace level.
- ix. To make use of this level gainfully in construction of structures, the PP has proposed single basement construction in this area partly which also will not be able to cover up the entire depth.
- x. The scheme drawing showing RCC detail of Retaining wall of 8 m height to retain the terrace filling up to FTL appears to be non-workable. It is seen that the foundation of the said wall is extending over 2 m width beyond the proposed area line of the Hospital

Complex in some other's property, which may will not be permitted. Besides, because of huge level difference obstruction posed in natural drainage of area by proposed construction of Hospital building complex and the proposed wall etc, the earth cover provided in the foundation (footing) outside the project area will be subjected to erosion during rains without appropriate protection measures. It may be relevant to mention that the ground beyond the boundary wall towards the eastern side is having slope towards a natural stream / nallah therefore is having lower contours towards the eastern side away from the boundary wall. Though which holes has been proposed water drained thus from these are being made to have free fall over the earth cover of foundation of wall, which again will contribute to erosion.

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

Chairman SEAC opines that –

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

(i) Two projects are part of the same project.

(ii) Whether academic glone has been constructed.


(iii) Water bodies was seen at the proposed plot which was reported to be of changed sizes.

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

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

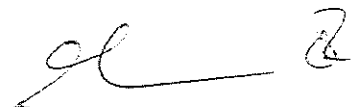
PP & the competent presented the point wise presented quarries.

The committee was of the view that the existing pond to being changed which needs to be restricted.


5.11.19







The site has been relocated place which is to be properly included in the plan for implementation.

Based on the presentation made as above the committee recommends to SEIAA for concluding of issuance of EC with following Annex

SEAC's Observation and calclusion

Document regarding the inclusion of the project in master plan approved by the competent local authority is not submitted with the proposal.

Drawing of storm water layout site plan, Sewer layout plan is inconclusive & incomplete & are unsigned.

The topographic map as shown as revised survey is not well documented & is unsigned.

Hospital area earth cutting and filling layout plan is incomplete as it includes only the hospital main building, other related structures and infrastructures are not included. The drawing is unsined.

Master plan drawing, the title itself is incorrect and & inconclusive & is unsigned.

Master plan showing building seeking EC is again having wrong nomenclature, as the map should include all relevant structures & infrastructures for which EC has been sought .Drawing is unsigned. The project proposal is forwarded to SEIAA for needful.

Compliance to points raised during 82nd Meeting of SEAC, Jharkhand :

S. no.	Observation	Reply
1	PP's reply of SEAC's point no. 1 of observation.	Reply is not appropriate as the coordinate exclude other related buildings and infrastructures of Hospital Building complex .
2	PP's reply of SEAC's point no. 2 of observation.	Supporting Google image for water body on the eastern side not provided. Identification of infrastructures for Hospital complex like sewer line, roads, drain & rain water harvesting etc not getting identified from the submitted drawing.
3.	PP's reply of SEAC's point no. 3 of observation.	Even revised co-ordinates do not cover all structures & infrastructures of hospital building. It only shows hospital building proper.
4.	PP's reply of SEAC's point no. 4 of observation.	The infrastructures for hospital building Complex for which drawings have been submitted are not indicating the required features related with hospital complex.
5.	PP's reply of SEAC's point no. 5 of observation.	Alteration in natural water body shape & size is violation of EIA provisions.

6.	PP's reply of SEAC's point no. 6 of observation.	Already replied in previous point.
7.	PP's reply of SEAC's point no. 7 of observation.	Google image of the area supporting the PPs statement to be furnished.
8.	PP's reply of SEAC's point no. 8 of observation.	Google image of the area supporting the PPs statement to be furnished.
9.	PP to reply of SEAC's point no. 9 of observation.	Ok
10.	PP to reply of SEAC's point no. 10 of observation.	Not yet submitted
11.	PP's to reply of SEAC's point no.11 of observation.	Pending at PPs end.
12.	PP's reply of SEAC's pointno. 12 of observation.	Ok
13.	PP's reply of SEAC's pointno. 13 of observation.	Ok

Compliance of Hon'ble Chairman SEAC's reply:

SN	Observation	Reply
1.	PP's reply of point no. 1 of observation.	Incorrect
2.	PP's reply of SEACs point no. 2 of observation.	Ok
3.	PP to reply of SEACs point no. 3 of observation.	--

Conclusion: The PP has submitted the required documents at the fagend of the meeting which could not be examined. Hence document submitted by the PP along with all the documents is being forwarded to SEIAA for needful.

2. **500 Bedded Govt. Hospital of M/s Jharkhand State Building Construction Corporation Ltd., Vill : Pokhrah Khurd, Dist : Palamau**
(Proposal No. : SIA/JH/NCP/74855/2018)

Taking into consideration the growing medical need of the people of the state. the Government of Jharkhand has planned to construct a 500 bedded Govt. As per the guidelines issued by MoEF&CC only the component of hospital building is seeked for Environment Clearance. The case was presented by Environment consultant M/s

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Oceao-Enviro Management Solutions India Pvt. Ltd (QCI certificate no. NABET/EIA/1821/IA 0033 Valid till 23.01.2021). Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000sq m and development area is less than 50 ha.

The Geographical coordinates of the total area of the medical college and hospital are as follows:

Hospital within the medical college:

S. No	Pillar	LONGITUDE	LATITUDE
1	A	84° 6' 44.74" E	24° 2' 27.81" N
2	B	84° 6' 44.69" E	24° 2' 24.50" N
3	C	84° 6' 46.81" E	24° 2' 24.13" N
4	D	84° 6' 47.08" E	24° 2' 28.11" N

The Salient Features of the total Medical collage with Hospital component is as follows:

S. No	Block No.	Particulars	Total (m ²)
1.	-	Total plot area	98621.85 (24.4 acre)
2.	-	Permissible Ground Coverage (@50% of Total Plot area)	49310.92
3.	-	Total Proposed Ground Coverage (@17.75% of Total plot area)	17510.0
4.	-	Proposed Ground Coverage for Hospital Building (@9.528% of Total plot area)	9297.0
5.	-	Permissible FAR @2.5	246554.6
6.	-	Proposed FAR @1.428	140881.0
7.	G+6	Proposed FAR for Hospital Building @0.5922	58408
8.	G+1	Proposed 500 Capacity auditorium	2516
9.	S+8	Proposed Type 3 Residence	7676
10.	S+5	Proposed Resident Doctors Hostel	4694
11.	G+5	Proposed Intern's Hostel (Male)	2421
12.	G+5	Proposed Intern's Hostel (Female)	2421
13.	G+1	Proposed Type 6 (Dean Residence)	473
14.	G+1	Proposed Type 6 (MS Residence)	473
15.	G+6	Proposed Nurse Hostel	4790
16.	G+3	Proposed Guest Hostel	1768
17.	G+1	Proposed Student Recreational Block	650
18.	G+1	Proposed ESS	1773
19.	G	Proposed Guard room	14.4

20.	-	Proposed STP &ETP	383
21.	G	Bio Waste	250
22.	G+4	Existing Medical College	24794
23.	G+8	Existing Girls Hostel	8935.0
24.	G+8	Existing Boys Hostel	8935.0
25.	S+8	Existing Type – 4 (Block 1)	4952.0
26.	S+7	Existing Type – 4 (Block 2)	4952.0
27.	-	Proposed Stilt Parking area for Hospital	2268
28.	-	Total Built Up Area (BUA) for Hospital (7+18+19+20+21+27)	63096.40
29.	-	Open Area (Total Plot Area – Ground Coverage)	72096.0
30.	-	Proposed Landscape Area (22.08 % of Open Area)	15290.0
31.		Height of the Hospital Building (m) (G+6)	34.0

DETAILS OF THE HOSPITAL COMPONENT:

S. No.	Description	Particulars	Unit
GENERAL			
1.	Total Plot Area	98621.85	SQM
2.	Ground Coverage of Hospital	9297.0	SQM
3.	Proposed Built Up Area of Hospital component	63096.40	SQM
4.	Building Blocks	Hospital Building, ESS & UGT, Guard room, STP & ETP.	
5.	Max Height of Building up to terrace level	34	M
6.	Max No of Floors for hospital building only	G+6	NOS
WATER REQUIREMENT FOR HOSPITAL COMPONENT			
7.	Total fresh water requirement	195	KLD
8.	Total sewerage generation	241	KLD
9.	Proposed ETP Capacity	50	KLD
10.	Proposed STP Capacity (SBR Type)	300	KLD
PARKING FOR HOSPITAL COMPONENT			
11.	Required Parking for Hospital Building as per Jharkhand Bye Laws	34	ECS
12.	Total Proposed parking	136	ECS
GREEN AREA FOR TOTAL PROJECT SITE			
13.	Proposed Green Area 15.50 % of total plot area	15290.0	SQM
WASTE GENERATION FOR HOSPITAL COMPONENT			
14.	Total Solid waste generated	940.76	Kg/day

15.	Biomedical Waste	25 % of Total Waste=235.25	Kg/day
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POWER FOR HOSPITAL COMPONENT

16.	Total Power Requirement	2921.8	KW
17.	DG set backup	1500*2=3000	KVA

RAIN WATER HARVESTING FOR HOSPITAL COMPONENT

18.	Rain water Harvesting Pits (in total plot area)	21	NOS
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POPULATION DETAILS FOR HOSPITAL COMPONENT

S. No.	Particulars	No. of beds	PPU/no. of person/m ²	Total Population
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2.	Attendant	500	1-person per 1bed	500
3.	Out Patient Department (OPD)			2000
4.	Staff (Doctor+ Nurse + Helper)			500
5.	Visitors (20% of Hospital Population i.e. 500)			100
Total Population				3600

DAILY WATER DEMAND FOR HOSPITAL COMPONENT:

S. No	Description	Area (sq. mtr)	No. of Beds / Occupancy	Rate of water demand for domestic (@lpcd)	Water Requirement for Domestic (KLD)	Rate of water demand for Flushing (@lpcd)	Water Requirement for Flushing (KLD)	Total Water Requirement Domestic + Flushing (KLD)
A.	Hospital Building							
1	Patients + Attendant +Staff + visitors		500	300	150	150	75	225
2	Out Patient Department (OPD)		2000	10	20	5	10	30
3	Laundry + Kitchen		500	50	25	0	0	25
Total Domestic Water Requirement								280.0
B.	Horticulture	19403.330	3 liter for 1 sq. mtr					58.2 say 58
C.	DG Set	3000 KVA (2*1500)	0.9*KVA* 8 Hours					21.6

		KVA)		
D.	HVAC	430 (TR)	10*Capacity* 12 hours	51.6
Total Water Requirement				411.2
				Say 411 KLD

Waste Water Management:

- The STP proposed for the total project is of 550 KLD of SBR technology (developed module wise).
- The ETP proposed for treatment for the effluents will be of capacity 50 KLD.
- The requirement of STP capacity for the Hospital component only is 300 KLD out of 550 KLD.
- The wastewater estimated for the hospital component is 241 KLD which will be treated in STP.
- There will be a provision of separate and dedicated lines of plumbing from OT, Labs and other photogenic sources that are high in COD, which will be diverted to ETP of capacity 50 KLD designed to meet the discharge standards of landscaping and horticulture.

Brief description of Effluent Treatment Plant (ETP) for proposed Hospital (50 KLD) :

Effluent Treatment Plant: The effluent from different laboratories, OT and hospital will be treated in ETP having following units:

Primary unit

The primary unit consists of screening and equalization tank. The raw hospital/lab. effluent will pass through the bar screen chamber. The Bar Screen has narrow slits that capture the material and further the effluent pass into the equalization tank where prechlorination and aeration will be done.

Secondary treatment

In secondary treatment i.e. Physico-chemical treatment the effluent from equalisation tank will come into the Reaction tank where Fenton's reagent will be mixed at low pH which work as a high oxidizing chemical and oxidize all the possible bacteria and virus and infectious units. Deep oxidation of bacteria will take place for 10-15 min, after that Neutralization process will be carried out and followed by Polymer dosing for better flocculation and coagulation.

Tube settler-The effluent will be settled in the tube settler and sludge will be settled down here and supernatant will be collected from the top to intermediate storage tank

Disinfection unit- The oxyline dosing will be carried out in the intermediate storage tank to disinfect. Rare possible bacteria after deep oxidation in the reaction tank. The process does not generate any carcinogenic chloro-organic compounds.

Tertiary treatment-

MGF-Multi grade filter will remove the possible particle in the treated effluent which pass through UV system before using for horticulture purpose or public sewerage system (Treated effluent 50 KLD max.).

Sludge-The ETP sludge will be handled in the Filter press and dispose off as per the provision of Hazardous Solid waste management rules.

Solid Waste Management:

3/11/19

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BAT

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S. No.	Category	Kg per capita per day	Waste generated (kg/day)
1	Patient + Attendant	1000 @ 0.5 kg/day	500
2	Staff	500 @ 0.25 kg / day	125
3	Visitor +OPD	2100@ 0.15 kg /day	315
4	Landscape waste (15290.0 m ²)	3.8 @ 0.2 kg/acres	0.76
Total Solid Waste Generated			940.76 kg/day Say 941 kg/day

SOLID WASTE GENERATION (Component Wise breakup of total solid waste generated)

S. No	Waste	Quantity Kg/day	Percentage
1	Biomedical waste	235.25	25
Rest remaining MSW 705.75 kg/day			
2	Bio degradable waste -	352.875	50
3	Non-bio degradable	282.30	40
4	Other inert waste	63.51	9
5	E-waste	7.05	1

MANAGEMENT:

- Municipal Solid waste : Organic wastes shall be collected at site marked and disposed off through authorized recyclers
- Hazardous waste: Waste oil will be disposed off through authorized recyclers.
- Biomedical waste: Waste will be disposed off through BMW facility.

Construction Waste: will be used on site as filler material for covering open spaces such as internal roads and pavements remaining construction waste if any will be sent to an approved dumping site.

RAIN WATER HARVESTING FOR THE HOSPITAL COMPONENT :

S.NO.	DESCRIPTION	DETAILS	UNIT
A	Terraces areas - Volume of runoff		
1.	AREA	27890	SQM
		2.789	HECTARE
2.	RAINFALL (One Hour)	25	mm/Hr
3.	COEFFICIENT	0.8	
4.	DISCHARGE AS PER RAINFALL INTENSITY (Q)	557.80	CUM/Hr
B	Paved, Road, Parking, Private terrace areas - Volume of runoff		
1.	AREA	60172.54	SQM
		6.017254	HECTARE
2.	RAINFALL (One Hour)	25	mm/Hr
3.	COEFFICIENT	0.7	
4.	DISCHARGE AS PER RAINFALL	1053.02	CUM/Hr

	INTENSITY (Q)		
C	Landscaped & green areas - volume of runoff		
1.	AREA	15290	SQM
		1.529	HECTARE
2.	RAINFALL (One Hour)	25	mm/Hr
3.	COEFFICIENT	0.2	
4	DISCHARGE AS PER RAINFALL INTENSITY (Q)	76.45	CUM/Hr
D	Total for all areas - volume of runoff & Calculation for RWH		
1.	Total Volume of runoff generated from the proposed campus (A+B+C)	1687.27	m ³
2.	Percolation of Rain Water through harvesting pit 10% of total discharge	168.73	m ³
3.	Balance Volume of rainwater discharge capacity.	1518.54	m ³
4.	Size of the Rain Water Harvesting Pit Structure for 60 minute storage (Dia.of Pit-4.5m & effective depth-4.5m)	15018.54	m ³
5.	Volume of a single circular recharge pit	71.53	m ³
6.	Hence No. of pits required	21	Nos

Energy Saving Measures:

- Use of local building material to reduce pollution & transportation energy.
- All the pumps shall have minimum efficiency as per ECBC norms
- Energy efficient building envelope-use of fly ash bricks/AAC blocks for external walls
- Insulation to roof.
- Programmable switching arrangement for external lighting to prevent wastage of energy.
- Energy efficient lighting fixture LED lamps to be provided in common areas.
- Adequate solar panels will be installed to conserve energy.
- ECBC norms shall be complied.

DFO, Medininagar Division vide letter no. 3366 dated 31.08.19 certified that the minimum distance is 250 m.

Dy. Director, Palamau Tiger Project vide letter no. 2076 dated 23.09.2019 certified that Eco Sensitive Zone is within 10 km from proposed project site and National Park / Bio-Diversity is not within 10 km.

The CO, Sadar, Medininagar vide letter no. 643 dated 05.08.19 has mentioned the plot no. of the project is recorded as "Jangle Sakhu" in the R. S. Khatiyani & Register II.

PP and the consultant presented the project of the hospital to be setup at Palamau, Jharkhand only explained that the institutions & hostels of academic area has been constructed and academic activity is in place. This application for the EC of the hospital & allied activities which is as per the 8(a) category of EIA notification, 2006. SEAC discussed the whole presentation and identified a number of lacunae where in clarification requires to be submitted.

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Following documents/clarifications requires to be submitted –

- (i) The site comprises of the forest land – The PP needs to submit the Forest Clearance application status. As per information, DFO has not received the hard copy of uploaded application form – please explain.
- (ii) In the Form-I the competent PP should signature.
- (iii) Status of Building plan approval.
- (iv) A nalla flows very close to the site. To submit the rainfall. Catchment storm water evacuation system. HFL& other issues related to the site.
- (v) The movement pattern of the patients and corresponding ambulance & other facilities be provided.
- (vi) The traffic density and parking facilities – A detailed study report.
- (vii) The solid & liquid water system is for hospital only. Please provide the same for institution & hostels separately& cumulative effect of the same & management strategies.
- (viii) Air quality in the present case is high for PM_{10} $PM_{2.5}$ but low for SO_2 & NO_x . Please explain the reason & the management strategy on establishment of the hospital.
- (ix) The maps are not shown in proper co-ordinates – submit the corrected maps.
- (x) Key plan showing surrounding area of the proposed development.
- (xi) Co letter & DFO letter – Area of land differs in both for the same area as the same area at the same time should match the other documents application. Please clarify.
- (xii) Provision of infectious & hazardous waste disposal system.
- (xiii) Site section map is showing finish terrace level with the respect to natural ground level.
- (xiv) All area statement of land, road, other infrastructures etc, related to the Buildings for which EC has been sought, to be plotted on a drawing and the proposal be corrected to mention the related figures/features.
- (xv) All buildings & infrastructures for the project for which EC has been sought shall be superimposed on the contour plan (showing the finished terrace level) in A- 0 size & a few section (up to 1st Floor level of Buildings only) showing road, boundary wall, buildings, rain water pits, underground structures/foundation, gate etc. & Cut & fill section shall be provided.
- (xvi) Xerox copy of drawing submitted by PP to municipal corporation for approval to be provided to verify the details of plot area and built up areas etc of buildings for which EC has been sought.
- (xvii) All Water bodies/dams/embankments & other existing physical features, barriers to drainage like highways & roads available within 500 km all around the project with levels, contour & details to be provided.
- (xviii) A natural stream/nallah or spillway of Dam is understood to be flowing at about 500 m in NE direction. During monsoon, the submergence of ground beyond nallah / stream width due to flash flood taking place due to catchment area and wide variation of grounds levels (as could be seen from the contour plan) might take place. High flood levels of the natural stream/maximum water level in the stream or spillway to provided and substantiated with documentary proof of WRD, Govt. of Jharkhand / other recognised body to appraise the project area.
- (xix) Layout of Bore holes plotted on a drawing having co-ordinate system indicating the existing RL of BHs, their co-ordinates superimposed on Contour plan to be provided

to verify the geotechnical report. Highest water table as observed in Bore Holes to be provided.

- (xx) All drawings must bear proper coordinate system.
- (xxi) Road widths in respect of various functional requirements of Hospital OPDs, movement of vehicles, for parking etc. are not adequate.
- (xxii) Setbacks proposed for buildings are not adequate. Latest revision of Municipal byelaws in this regard to provided & revisions in the drawing as required as per the byelaws to be made.
- (xxiii) Quantification of Earth work & specific plan of disposal of excess excavated earth / procurement of borrowed earth as the case may be, indicating borrow area to be provided.
- (xxiv) Ground floor plan with disposition of various rooms / facilities to be provided.
- (xxv) For Rain Water harvesting pits – 60 minutes storage shall be considered.

SEAC's Observation and conclusion

The document showing inclusion of the project in approved master plan of the local authority is missing.

After examining all plans and documents of the proposed Govt. Hospital building complex including its infrastructures, facilities, existing site features, already constructed medical college adjoining the project site, it is concluded that the site visit to the project site is a must to verify the status of the project.

Gurusuti River shown in location plan (PLAN – 1000) revision -1 is located in north & eastern part in close vicinity of the site. HFL and co-ordinates with respect to location are missing due to which effect of area submergence occurring during high floods whether affecting the proposed site can not be ascertained.

Distance of the project site from existing water reservoir yet to be furnished.

Reply of the PP to SEACs observations & supporting drawings submitted can be better appraised after site visit.

At this stage, the proposal cannot be recommended for grant of EC.

3. Stone Deposit of Telo for M/s Kirty Enterprises at Vill : Telo, P.O. : Telo, P.S. : Chandrapura, Dist. : Bokaro (1.014 Ha).

(Proposal No. : SIA/JH/MIN/43360/2019)

This is a Stone Mining Project with an area of 1.014Ha [Khata no. 81, 50, 149, 159 & Plot no. 1316, 1317, 1322, 1324(P), 1319, 1320, 1321]. The latitude and longitude of the project site is 23°48'58.7"N To 23°49'01.2"N and 86°06'31.4"E To 86°06'31.2"E. The nearest railway station is Telo at a distance of 2.58 km and nearest airport is Ranchi at a distance of 100 km. Total water requirement is 6 KLD (Dust Suppression : 3 KLD, Afforestation / Green belt : 2 KLD, Drinking / Domestic : 1 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Telo tube well. As soon as mine void is formed, water for green belt and dust suppression will be met from water

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accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 1,98,072 tonne

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

1 st Year	:	19,899 tonne
2 nd Year	:	19,867 tonne
3 rd Year	:	19,796 tonne
4 th Year	:	19,780 tonne
5 th Year	:	19,829 tonne

The daily production as per Form-I is 66.33 tonne.

The indicated project cost is Rs 20 Lakh, a provision of Rs 2.3 Lakh has been indicated for Environment management and CSR is Rs. 2.0 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1816 dated 03.09.19 certified that National Park, Bio-Diversity & Sanctuary is not within 10 km from proposed site and proposed project is not situated in any ESZ.

The DFO, Bokaro Division vide letter no. 86 dated 09.01.18 certified that the distance of notified forest is more 3000 m from proposed project site.

The CO, Bokaro vide letter no. 697 dated 05.09.2019 has mentioned the plot no.- of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Bokaro vide letter no. 2632, dated 16.09.19 certified that no other lease is exists within 500 m radius from proposed project site.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Stone Deposit of Telo for M/s Kirty Enterprises at Vill : Telo, P.O. : Telo, P.S. : Chandrapura, Dist. : Bokaro (1.014 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

4. Sadhwadih Stone Mine of Sri Ashok Kumar & Partner Sri Rajat Kapoor at Vill : Sadhwadih, P.S. : Manika, Dist : Latehar (2.79 Ha).

(Proposal No. : SIA/JH/MIN/42650/2019)

This is a Stone Mining Project with an area of 2.79 Ha Khata no.17 & 39, Plot no. 1215 & 1239. The latitude and longitude of the project site is 23°53'11.4"N To 23°53'11.0"N and 84°21'05.4"E To 84°21'07.3 E. The nearest railway station is Bendi at a distance of 35 km and nearest airport is Ranchi at a distance of 120 km. Total water requirement is 6 KLD (Dust Suppression : 3 KLD, Afforestation / Green belt : 2 KLD, Drinking / Domestic : 1 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Sadhwadih tube well. As soon as mine void is formed water for green belt and

dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	12,96,792 tonne
Probable Mineable Reserve	:	20,580 tonne

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

1 st Year	:	1,29,500 tonne
2 nd Year	:	1,29,948 tonne
3 rd Year	:	1,29,184 tonne
4 th Year	:	1,29,704 tonne
5 th Year	:	1,29,730 tonne

The daily production as per Form-I is 432 tonne.

The indicated project cost is Rs 42.70 Lakh, a provision of Rs 4.2 Lakh has been indicated for Environment management and CSR is Rs. 2.13 Lakh.

Dy. Director, Palamau Tiger Project, North Division vide letter no. 2018 dated 04.09.19 certified that National Park, Bio-Diversity & Sanctuary is not within 10 km from proposed site and proposed project is not situated in any ESZ.

The DFO, Latehar Division vide letter no. 1315 dated 29.07.19 certified that the distance of notified forest is more 346 m from proposed project site.

The CO, Manika vide letter no. 211, dated 25.05.18 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Latehar vide memo no. 133, dated 14.03.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project site is not mentioned in District Survey Report (DSR) of Latehar District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Sadhwadih Stone Mine of Sri Ashok Kumar & Partner Sri Rajat Kapoor at Vill : Sadhwadih, P.S. : Manika, Dist : Latehar (2.79 Ha)** be conditionally (project site not mentioned in DSR) recommended for grant of EC, subject to submission of DSR from competent authority directly to SEIAA. The various conditions for grant of EC is enclosed as Annexure - II.

5. **Housing Complex, Construction (including structural design) of 2020 Dwelling units in 101 number of G+3 blocks at Kasidih, Adityapur under Pradhan Mantri Awas Yojana (urban) [Package B] of Adityapur Municipality Corporation at Plot No. : 324, 326, 334, 352, 358 & 354, Khata No. : 89, Village : Kashidih, Tehsil : Gamharia, District : Saraikella Kharswan**

(Proposal no. : SIA/JH/MIS/114543/2019)

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000sq m and development area is less than 50 ha. The latitude and longitude of the project site is 22°47'25.06"N to 22°47'39.41"N and 86° 6'44.79"E to 86° 6'51.48"E.


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Salient Features of the project

Total Land Area (as per physical measurement)	64579.74 sqm (15.96 Acres).
Total Built Up Area	73279 sqm
Ground Coverage (Above Basement)	18319.75 sqm (28.36%)
Total Green Area	26002.12 sqm (40.26%)
Total Paved Area	16080.04 sqm (24.90%)
Service Area	4177.83 sqm (6.47%)
No. of Block & Story	2020 Dwelling units in 101 number of G+3 blocks Storied.
No. of Dwelling units	2020 nos.
Source of Water	Adityapur Municipal Corporation
Total Quantum of Water required	1372 KLD
Quantity of Wastewater Generation	997 KLD
Quantity of treated wastewater Discharge	997 KLD
Quantum of Fresh Water required	1372 KLD
Quantity of Solid Waste Generation	4566 kg/day
Constructional Phase Water Demand	50 KLD (Construction work – 8 KLD, Workers – 42 KLD)
Total Population During Construction	595 persons
Total Population During Operation	8888 persons (permanent - 8080, temporary- 808)
Electricity Load	7635 KVA (6108 KW)
Electricity Supplied By	Jharkhand Bijili Vitran Nigam Ltd (JBVNL)
Car Parking provided	404 nos.(Four wheelers), 1616 nos. (Two Wheelers)
No. of trees provided	910 Nos.
Proposed Maximum Height of the Building	Max 12 m

Sewage Treatment and Reuse:

The wastewater generated from this project will be 997 KLD. This wastewater will be diverted to septic tank followed by soak pit will finally be discharged into the Adityapur Municipal Corporation combined sewer line.

Solid Waste Management

The garbage (solid waste) within the project site will be biodegradable, recyclables and inert material in nature. The total quantity of solid waste generated during operational phase will be 4566 kg/day. The solid waste will be segregated at source and collected in separate bins. The solid waste will be

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collected through containerized system and finally it will be transported, treated and disposed off by Adityapur Municipal Corporation as per MSW (M&H) Rules, 2016.

The DFO, Saraikela Division vide letter no. 1855, dated 13.08.19 certified that the distance of notified forest is more 0 (Zero) m from proposed project site.

The CO, Gamharia vide letter no. 1131, dated 29.08.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

SEAC's Observation on Proposal

Project site Contour indicates ground level variation upto 8 m(94m to 102 m)

But site is now flat, developed, no requirement of fill material, Cutting & filling required only for foundation as per Clause 2.1, 1.8 of Form I & 1.6 of Form 1A.

Violation of E(P) Act already caused by completing preparation of ground at project site without obtaining prior

Plot plan map outline of 6 numbers of identified plots shown in Executive Officer, MC, Adityapur and outline of plot plan in proposal is not matching.

Constricted part of the plot, connecting North and South could be a bottleneck because of only 4.5 metre width of connecting road in between for a colony's population of 8800. Entire width of constricted part to be made free from any obstructions by reorienting proposed Community centre to result in unobstructed availability of space for free passage of people.

Existing pond is in close proximity of site in the North Eastern part. Information of water body like dimensions, level, barricaded or unbarricaded etc to be provided.

PP to provide related documents as below:

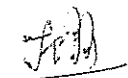
- I. Applicant : AMC, Adityapur
- II. Name of Executive Agency: M/S EPI India Limited
- III. Client: M/S JUIDCO Limited
- IV. Architect and consultant: Skematic Consultants, Kolkata

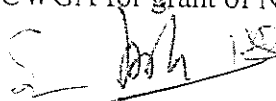
Contractual relationship between Government of Jharkhand, AMC, M/S JUIDCO Limited, M/S EPI Limited, and Skematic Consultants to be provided & letter of PP appointing M/S EPI, M/S JUIDCO Limited, and M/S Skematic Consultants in various roles to be provided.

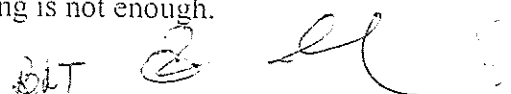
Anchal Adhikari, Ghamaria's letter no. 1131 dated 29/08/2019 addressed to M/S EPI Limited, Kolkata, refers to letter no. 780/012 dated 24/07/2019. Neither this referred letter is enclosed nor its content is known to establish that the NOC was for the 6 number of residential plots for which application has been made. Signature of CO is not visible clearly.

Letter of DFO, Saraikela mentions the name of applicant as Kumar Jivesh, Government. No other identity is mentioned.

NOC from CGWA not provided nor the acknowledgment from CGWA submitted. Municipal Commissioner AMC has instead submitted an undertaking mentioning that they have applied to CWGA for grant of NOC. Undertaking is not enough.


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Location and various levels of septic tanks and soak pits to be provided in drawing in view of large variation of ground level & proximity of an existing water body to the site.

In clause 5.5 of Form 1, it is mentioned that sewage (construction phase) will be stored in a septic tank and finally discharged to Adityapur Municipal Drain. Needs clarification.

Geotechnical report with recommendation of foundation type with bore log, location and RL of bore holes, and layout drawing of bore holes to be provided. Piling is also proposed for foundation will reduce the earthwork in excavation quantity

The Housing Complex General Arrangement drawing indicating all the units, infrastructures like roads, storm-water drains, sewer line, rain water harvesting pits, underground sumps, boundary wall/fencing, gate complexes, superimposed on the contour plan in A0 size to be provided with a proper coordinate system. The Building plan and sections showing buildings upto First floor only, to be provided showing various levels like FINISHED TERRACE LEVEL ETC in a separate A1 size drawing.

Self-generated memo dated 22/07/2019 from AMC, Adityapur mentioning the holding number (griha sankhya - 0090000667000K1 ward 9) has been submitted. relevance of which is to be clarified. Relevance of Failed List Report wherein the **district name wrongly mentioned as East Singhbhum**, authority's name as AMC and owner's name as JUIDCO Limited is not understood.

"Individual AC will be used in each flat. Uses of air-conditioner will be CFC and HCFC free." - To be clarified (clause no. 9.7 of Form 1A)

Supporting document for calculating Colony's population @ 4 persons per DUs to be submitted.

The computational detail of 18320 cum of earth work in excavation to be provided.

Details of use of Flyash brick/Concrete blocks upto 20% of total BRICKWORK quantity to be furnished.

Retention time of 60 minutes shall be considered in design of RWH system.

PP and the consultant presented the project and replied to the queries raised therein. During the meeting it has been observed that the project boundry is adjoining the forest.

PP agreed to submit a realignment of the building plan so that a buffer zone of 10 m green area is created all along the boundary of the project.

The PP has submitted the required documents at the fagend of the meeting which could not be examined. Hence document submitted by the PP along with all the documents is being forwarded to SEIAA for needful.

Srirampur Stone Deposit of M/s Mandhan Minerals Corporation (Prop : Sri Anil Tanwani) at Vill.: Srirampur, P.S. : Malpahari, Dist.: Pakur (1.48 Ha).

(Proposal No. : SIA/JH/MIN/44851/2019)

This is a Stone Mining Project with an area of 1.48Ha. J.B. no.: 02. Plot no. : 689, 690 (P), 691, 692 & 695 (P). The latitude and longitude of the project site is 24°35'19.75"N To 24°35'25.96"N and 87°49'07.42"E To 87°49'13.15"E. The nearest railway station is

Nagarnabi at a distance of 4.97 km and nearest airport is Kolkata at a distance of 225 km. Total water requirement is about 8.5 KLD. Source of water is nearby villages (Dug Wells).

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	3,76,218 tonne
Probable Mineable Reserve	:	51,390 tonne

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

1 st Year	:	42,763 tonne
2 nd Year	:	42,768 tonne
3 rd Year	:	42,719 tonne
4 th Year	:	42,768 tonne
5 th Year	:	42,786 tonne

The daily production as per Form-I is 143 tonne.

The indicated project cost is Rs 70 Lakh and a provision of Rs 4.12 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1426 dated 25.07.19 certified that the Udhwa Lake Bird Sanctuary is 41300 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 945 dated 09.08.19 certified that the distance of notified forest is more 1000 m from proposed project site.

The CO, Pakur vide letter no. 1247 dated 10.08.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Pakur vide memo no. 1508 dated 06.09.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project site is not mentioned in District Survey Report (DSR) of Pakur District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Srirampur Stone Deposit of M/s Mandhan Minerals Corporation (Prop : Sri Anil Tanwani) at Vill.: Srirampur, P.S. : Malpahari, Dist.: Pakur (1.48 Ha) be recommended for grant of EC.** The various conditions for grant of EC is enclosed as **Annexure - II.**

6. **Brick Soil Mining for M/s Puja Bricks (Prop : Sri Uma Shankar Sahu) at Vill. : Dimba, P.S. : Lapung, Dist. : Ranchi (0.404 Ha).**

(Proposal No. : SIA/JH/MIN/44521/2019)

This is a Brick Earth Mining with an area of 0.404 Ha [Khata no. 76, Plot no. 973 (P)]. The latitude and longitude of the project site is N23°11'01.30" to N23°11'03.85" and E84°56'22.66" to E84°56'25.44". The nearest railway station is Narkopi at a distance of 21.66 km and the nearest airport is Ranchi at a distance of 41.88 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 720 cum of top soil will be generated during the 5 years plan period @ 144 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of 1200 cum / year has been envisaged for the brick earth

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which will be sufficient for manufacturing 6,00,000 bricks every year. Thus, a total of about 6000 cum quantity of brick earth will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3750 sq.m or 0.93 acres in the five year plan period.

Proved Mineral Reserve : 6165 cum

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

Year	Quantity of brick earth (m ³)	Nos of Bricks Proposed
1 st Year	1200	600000
2 nd Year	1200	600000
3 rd Year	1200	600000
4 th Year	1200	600000
5 th Year	1200	600000
Total	6000	3000000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 0.98 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1062, dated 24.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 2353, dated 18.07.2018 certified that the distance of notified forest is 442 m from proposed project site.

DMO, Ranchi vide memo no. 1122, dated, 30.11.2018 certified that no other lease is exists within 500 m radius from proposed project site.

The CO, Lapung vide letter no. 389, dated -15.10.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

The project site is not mentioned in District Survey Report (DSR) of Ranchi District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal ~~for Burka Brick Clay Deposit of M/s Bedal Bricks at Vill :- Burka, Thana :- Bhandra, Dist :- Lohardaga (0.996 Ha)]~~ be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

Day 3 : November 06, 2019 [Wednesday]

Consideration of Proposals

1. Chhota Singhpur Stone Mine of M/s Magistic Stone Works (Prop. : Shri Vikash Kumar) at Vill. : Chhota Singhpur , P.S. : Pakuria, Dist. : Pakur (2.82 Ha).

(Proposal No. : SIA/JH/MIN/44548/2019)

This is a Stone Mining Project with an area of 2.82 Ha [Plot No. - 06, 08, 09, 13, 14, 15, 16, 17, 18, 29, 30, 31, 32, 33, 34, 35, 37(P), 38, 39, 40, 41, 42. The latitude and longitude of the project site is 24°15'51.18"N To 24°15'57.74"N and 87°39'10.20"E To 87°39'21.26"E. The nearest railway station is Pinargaria Railway Station 6.24 Km and nearest airport is Birsa Munda Aiport, Ranchi, 260 km SW. Total water requirement is 6.22 KLD (Dust Suppression

: 3.77 KLD. Afforestation / Green belt : 1.01 KLD. Drinking / Domestic : 1.44 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 5,65,208 Tonne

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

1 st Year	:	1,11,088.8 tonne
2 nd Year	:	1,11,088.8 tonne
3 rd Year	:	1,12,730.4 tonne
4 th Year	:	1,12,878.9 tonne
5 th Year	:	1,12,806 tonne

The daily production as per Form-I is 376 TPD.

The indicated project cost is Rs 31 Lakh, a provision of Rs. 6.95 Lakh has been indicated for Environment management and CER is Rs. 2.09 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1393, dated 20.07.19 certified that the Udhwa Lake Bird Sanctuary is 79570 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 582, dated 24.05.19 certified that the distance of notified forest is 250 m from proposed project site.

The CO, Pakuria (Pakur) vide letter no. 644/R, dated 24.08.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatyan & Register II.

DMO, Pakur vide memo no. 567, dated 31.03.19 certified that no other lease is exists within 500 m radius from proposed project site.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Chhota Singhpur Stone Mine of M/s Magistic Stone Works (Prop. : Shri Vikash Kumar) at Vill. : Chhota Singhpur, P.S. : Pakuria, Dist. : Pakur (2.82 Ha)** be recommended for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II.**

Special Condition:

1. Peripheral plantation from beginning of the new.
2. Left over area of mine site be shade.
3. Fencing be done all along the periphery.
2. **Paharpur Stone Mine of Md. Abdus Salam Ansari at Vill – Paharpur, P.S. – Shikaripara, Dist – Dumka (1.39 Ha).**

(Proposal No. : SIA/JH/MIN/44554/2019)

This is a Stone Mining Project with an area of 1.39 Ha [Khata no. 19, 24, Plot No. – 1174, 1175, 1176, 1184, 1185 & 1187]. The latitude and longitude of the project site is 24°11'20.91"N To 24°11'14.30"N and 87°35'02.29"E To 87°34'58.15"E. The nearest

railway station is Pinargaria Railway Station 6.42 Km NE and nearest airport is Birsa Munda Aiport.Ranchi, 250 km SW. Total water requirement is 5.25 KLD (Dust Suppression : 3.51 KLD. Afforestation / Green belt : 0.57 KLD. Drinking / Domestic : 1.17 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Haripur tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,64,721 Tonne

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

1 st Year	:	76,480.2 tonne
2 nd Year	:	51,985.8 tonne
3 rd Year	:	1,41,150.6 tonne
4 th Year	:	1,05,381 tonne
5 th Year	:	74,277 tonne

The daily production as per Form-I is 470.50 TPD.

The indicated project cost is Rs 30 Lakh, a provision of Rs 6.49 Lakh has been indicated for Environment management and CER is Rs. 2.61 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 2101, dated 30.09.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter no. 2768, dated 10.08.19 certified that the distance of notified forest is 1420 m from proposed project site.

The CO, Shikaripara vide letter no. 867/R, dated 12.09.19 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. 1179, dated 30.09.19 certified that altogether total mining in the area is 9.11 Acre (3.69 Ha) in the radius of 500 m.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Paharpur Stone Mine of Md. Abdus Salam Ansari at Vill – Paharpur, P.S. – Shikaripara, Dist – Dumka (1.39 Ha)** be recommended for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II.**

Special Condition:

1. Fencing all along the periphery.
2. Plantation all along the periphery from the beigning.
3. **Amalgachi Stone Mine of M/s MaaDurga Stone Works (Prop: Sri Soumitra Ghosh) at Vill. : Amlagachi, Thana : Maheshpur, Dist. : Pakur (2.87 Ha).**

(Proposal No. : SIA/JH/MIN/44589/2019)

This is a Stone Mining Project with an area of 2.87 Ha [Plot No. -476, 477, 478]. The latitude and longitude of the project site is 24°33'20.69" N To 24°33'17.34" N and 87°43'22.77" E To 87°43'23.23" E. The nearest railway station is Nagar Nabi Railway Station 14.75 Km SE and nearest airport is Birsa Munda Airport, Ranchi, 280 km SW. Total water requirement is 4.94 KLD (Dust Suppression : 3.58 KLD, Afforestation / Green belt : 0.33 KLD, Drinking / Domestic : 1.13 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 19.97.254 Tonne

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

1 st Year	:	1,25,846 tonne
2 nd Year	:	1,26,028 tonne
3 rd Year	:	1,26,190 tonne
4 th Year	:	1,26,067 tonne
5 th Year	:	1,26,185 tonne
Total		630316 tonne

The daily production as per Form-I is 420.633 TPD.

The indicated project cost is Rs 30.50 Lakh, a provision of Rs 5.07 Lakh has been indicated for Environment management and CER is Rs. 2.33 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1435, dated 25.07.19 certified that the Udhwa Lake Bird Sanctuary is 45850 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 835, dated 24.07.19 certified that the distance of notified forest is 500 m from proposed project site.

The CO, Maheshpur vide letter no. 511, dated 17.07.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Pakur vide memo no. 1554, dated 16.09.19 certified that no other lease is exists within 500 m radius from proposed project site.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Amalgachi Stone Mine of M/s MaaDurga Stone Works (Prop: Sri Soumitra Ghosh) at Vill. : Amlagachi, Thana : Maheshpur, Dist. : Pakur (2.87 Ha) be recommended for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II**.

Special Condition:

1. Fencing
2. Plantation all along the periphery
3. area be planted & should not be left

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3/11/19

[Signatures] RKT

4. Hathigarh Stone Mine of Md. Tipu Ansari at Vill. : Hathigarh, P.S. : Litipara, Dist : Pakur (3.48 Ha).

(Proposal No. : SIA/JH/MIN/44746/2019)

This is a new Stone Mining Project with an area of 3.48 Ha [Khata no. : 56, 57, 99, Plot No. : 959, 945, 946, 956, 955(P), 957, 958]. The latitude and longitude of the project site is 24°43'42.20"N To 24°43'51.81"N and 87°42'49.76"E To 87°42'57.15"E. The nearest railway station is Pakur Railway Station 17.41 Km SE and nearest airport is Birsa Munda Aiport.Ranchi, 289 km SW. Total water requirement is 5.84 KLD (Dust Suppression : 3.84 KLD, Afforestation / Green belt : 0.47 KLD, Drinking / Domestic : 1.53 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Guakaola tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	18,09,854 Tonne
Probable Mineable Reserve	:	87,999 Tonne

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

1 st Year	:	1,88,561 tonne
2 nd Year	:	1,88,907 tonne
3 rd Year	:	1,89,620 tonne
4 th Year	:	1,89,115 tonne
5 th Year	:	1,90,282 tonne

The daily production as per Form-I is 612.73 TPD.

The indicated project cost is Rs 26.58 Lakh, a provision of Rs 5.45 Lakh has been indicated for Environment management and CER is Rs. 3.34 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 2184, dated 12.10.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and, proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 1366, dated 03.09.16 certified that the distance of notified forest is more than 250 m from proposed project site.

The CO, Littipara vide memo no. 152, dated 18.04.19 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. 1986, dated 08.06.17 certified that altogether total mining in the area is 4.69 ha in the radius of 500 m.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M

dated 12.12.18 decided that the proposal for Hathigarh Stone Mine of Md. Tipu Ansari at Vill. : Hathigarh, P.S. : Litipara, Dist : Pakur (3.48 Ha) be recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

Special Condition :

1. Fencing all along the periphery.
2. Plantation all along the periphery.

5. Pakaria Stone Deposit of M/s Om Sai Pathar Udyogat Vill. : Pakaria, P.O.+P.S. : Mirzachauki, Dist. : Sahebganj (3.64 Ha).

(Proposal No. : SIA/JH/MIN/44679/2019)

This is a new Stone Mining Project with an area of 3.64 Ha [Khata no. 12, 25, 27, Plot No.- 8(P), 9(P), 10, 13(P), 40(P)]. The application is in contiguous area & application for The latitude and longitude of the project site is 25°14'11.37"N to 25°14'21.93"N and 87°31'24.15"E to 87°31'37.45"E. The nearest railway station is Mirzachouki Railway Station 3.40 Km NW and nearest airport is Birsa Munda Airport, Ranchi, 308 km SW. Total water requirement is 6.03 KLD (Dust Suppression : 4.03 KLD, Afforestation / Green belt : 1.01 KLD, Drinking / Domestic : 0.99 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Lahurbera tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	17.59,356 Tonne
Probable Mineable Reserve	:	2.19,764 Tonne

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

1 st Year	:	1,87,426 tonne
2 nd Year	:	1,98,175 tonne
3 rd Year	:	1,94,897 tonne
4 th Year	:	2,15,001 tonne
5 th Year	:	1,86,019 tonne

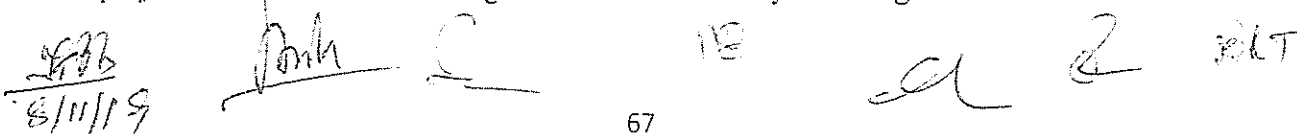
The daily production as per Form-I is 716.67 TPD.

The indicated project cost is Rs 34.54 Lakh, a provision of Rs 5.38 Lakh has been indicated for Environment management and CER is Rs. 3.98 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1546, dated 03.08.19 certified that the Udhwa Lake Bird Sanctuary is 37650 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Sahibganj Division vide memo no. 1857, dated 26.09.17 certified that the distance of notified forest is 440 m from proposed project site.

The CO, Littipara vide memo no. 152, dated 18.04.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

The bottom of the page features several handwritten signatures and initials. On the left, there is a signature that appears to be 'SJB' with the date '8/11/19' written below it. In the center, there is a signature that looks like 'Doh'. To the right of this, there are several other initials and signatures, including one that looks like 'C', 'IE', 'a', 'Z', and 'BLT'.

DMO, Sahibganj vide memo no. 1816, dated 27.11.17 certified that altogether total mining in the area is 8.097 ha in the radius of 500 m.

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

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 04-07.11.19, the Committee recommends 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 standard TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in air quality monitoring station be identified in commutation with SPCB Annexure IV.

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.

6. **Pakariya Stone Deposit of M/s Shiv Shakti Enterprises at Vill. : Pakariya, Banglow : Sakrogarh, Dist. : Sahibganj (4.74 Ha).**

(Proposal No. : SIA/JH/MIN/44637/2019)

This is a Stone Mining Project with an area of 4.74 Ha [Khata no. 13, 01, 25, 32, 16, 32, 45, Plot No. – 254, 255, 256, 258, 259, 260, 261, 262(P)]. The latitude and longitude of the project site is 25°14'35.60"N To 25°14'35.30" N and 87°31'34.50" E TO 87°31'36.10" E. The nearest railway station is Mirza chouki Railway Station 3.33 Km NW and nearest airport is Birsa Munda Aiport, Ranchi, 350 km SW. Total water requirement is 5.06 KLD (Dust Suppression : 2.40 KLD, Afforestation / Green belt : 1.71 KLD, Drinking / Domestic : 0.95 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Sundere tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	35,28,563 Tonne
Probable Mineable Reserve	:	1,04,574 Tonne

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

1 st Year	:	93.787 tonne
2 nd Year	:	93.779 tonne
3 rd Year	:	93.623 tonne
4 th Year	:	94.349 tonne
5 th Year	:	94.630 tonne

The daily production as per Form-I is 312.62 TPD.

The indicated project cost is Rs 38.25 Lakh, a provision of Rs 5.40 Lakh has been indicated for Environment management and CER is Rs. 1.73 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1584, dated 09.08.19 certified that the Udhwa Lake Bird Sanctuary is 37650 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Sahibganj Division vide memo no. 1389, dated 07.10.16 certified that the distance of notified forest is 320 m from proposed project site.

The CO, Mandro vide memo no. 757, dated 05.08.19 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. 1869, dated 30.11.17 19 certified that no other lease is exists within 500 m radius from proposed project site.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Pakariya Stone Deposit of M/s Shiv Shakti Enterprises at Vill. : Pakariya, Banglow : Sakrogarh, Dist. : Sahebganj (4.74 Ha) be recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

Special Condition

1. Plantation all along the periphery of teamed
2. Fencing of the Periphery
3. Local tree special be planted.

7. Rohare Stone Deposit of M/s R.K. Stone Works (Prop: Sri Ritosh Kumar Singh) at Vill. : Rohare, P.O.+P.S. : Mirzachauki, Dist. : Sahebganj (4.05 Ha).

(Proposal No. : SIA/JH/MIN/44670/2019)

This is a Stone Mining Project with an area of 4.05 Ha [Khata no. 15, 23, 27, Plot No.- 10, 12(P), 13(P).]. The application is for issuance of ToR only. The latitude and longitude of the project site is 25°14'25.92"N to 25°14'9.35"N and 87°31'16.46"E to 87°31'22.90"E. The nearest railway station is Mirzachouki Railway Station 3.50 Km NW and nearest airport is Birsa Munda Airport, Ranchi, 308 km SW. Total water requirement is 7.16 KLD (Dust Suppression : 4.55 KLD, Afforestation / Green belt : 1.17 KLD, Drinking / Domestic : 1.44 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Lahurbera tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	19.07.037 Tonne
Probable Mineable Reserve	:	2.63.488 Tonne

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

1 st Year	:	2.25.933 Tonne
2 nd Year	:	1.96.852 Tonne
3 rd Year	:	2.19.850 Tonne
4 th Year	:	208626 Tonne
5 th Year	:	221964 Tonne

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The daily production as per Form-I is 753.11 TPD.

The indicated project cost is Rs 31.05 Lakh, a provision of Rs 5.56 Lakh has been indicated for Environment management and CER is Rs. 4.18 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1779, dated 29.08.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and proposed project is not situated in any ESZ.

The DFO, Sahibganj Division vide letter no. 1831, dated 22.09.17 certified that the distance of notified forest is 310 m from proposed project site.

The CO, Mandro vide memo no. 852, dated 07.09.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for Rohare Stone Deposit of M/s R.K. Stone Works (Prop: Sri Ritosh Kumar Singh) at Vill. : Rohare, P.O.+P.S. : Mirzachauki, Dist. : Sahebganj (4.05 Ha) be recommended for issue of ToR. Conditions for ToR is enclosed in Annexure III

8. Chuwa Stone Deposit of Shri Suresh Kumar at Vill. : Chuwa, P.S. : Jirwabadi (OP), Dist. : Sahebganj (3.46 Ha).

(Proposal No. : SIA/JII/MIN/44665/2019)

This is a Stone Mining Project with an area of 3.46 Ha [Khata no. 12, 31, 05, 21, 02. Plot No.- 11(p), 12(P), 13(P), 14(P), 37(P), 38(P), 39(P), 40(P)]. The latitude and longitude of the project site is 25°12'45.91" N TO 25°12'56.11" N and 87°34'39.68"E TO 87°34'49.63"E. The nearest railway station is Sahibganj Railway Station 6 Km NE and nearest airport is Birsa Munda Airport, Ranchi, 310 km South. Total water requirement is 6.00 KLD (Dust Suppression : 4.03 KLD, Afforestation / Green belt : 0.84 KLD, Drinking / Domestic : 1.13 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Sewria tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Geological Reserve : 2583884 Tonne

Mineable Reserve : 2096010 Tonne

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

1 st Year	:	251189 MT
2 nd Year	:	289526 MT
3 rd Year	:	243116 MT
4 th Year	:	243386 MT
5 th Year	:	275597 MT

The daily production as per Form-I is 965.09 max. TPD.

The indicated project cost is Rs 27.09 Lakh, a provision of Rs 5.51 Lakh has been indicated for Environment management and CER is Rs. 5.36 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1672, dated 16.08.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and, proposed project is not situated in any ESZ.

The DFO, Sahibganj Division vide letter no. 1858, dated 26.09.17 certified that the distance of notified forest is 530 m from proposed project site and no National Park located within 10 km from project site.

The CO, Mandro vide letter no. 624/R, 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. 1708, dated 11.11.17 certified that altogether total mining in the area is 3.46 ha in the radius of 500 m.

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

Special Condition

1. Fencing in periphery
2. Plantation is the safety zone from the beigning.
3. Local plantation be planted.

Forwarded to SEIAA recommending for ~~planted~~ issuance of E.C. Condition as Annex II

9. Pokharia Stone Mine of Shri William Rituraj at Vill – Pokharia, P.O.- Benagaria, P.S. – Shikaripara, Dist – Dumka (2.96 Ha) (SIA/JH/MIN/44757/2019)

This is a Stone Mining Project with an area of 2.96 Ha [Plot No. – 523(P), 526(P), 527(P), 528(P), 529(P), 530(P)]. The latitude and longitude of the project site is 24°12'16.65"N To 24°12'04.72"N and 87°33'33.62"E To 87°33'27.13"E. The nearest railway station is Pinargaria Railway Station 8 Km NE and nearest airport is Birsa Munda Aiport, Ranchi, 250 km SW. Total water requirement is 7.13 KLD (Dust Suppression : 3.57 KLD, Afforestation / Green belt : 1.31 KLD, Drinking / Domestic : 2.25 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 647079.3 Tonne

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

1 st Year	:	111088.8 MT
2 nd Year	:	111088.8MT
3 rd Year	:	112730.4 MT
4 th Year	:	112878.9 MT
5 th Year	:	112806 MT

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The daily production as per Form-I is 930.36 max. TPD.

The indicated project cost is Rs 30 Lakh. a provision of Rs. 7.94 Lakh has been indicated for Environment management and CER is Rs. 2.09 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1640, dated 10.08.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter dated 17.03.17 certified that the distance of notified forest is 1228 m from proposed project site and no National Park located within 10km from project site.

The CO, Shikaripara vide letter dated 16.10.19 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. 1034, dated 06.06.17 certified that altogether total mining in the area is 8.87 Acre (3.59 Ha) in the radius of 500 m.

The project site is mentioned in District Survey Report (DSR) of Dumka District. *Project is forwarded with recommendation for grant of E.C. with condition - Annex - II*
Special Condition

1. Fencing in periphery.
2. Plantation all along the periphery
3. Local sps.

10. Kasila Stone Mine of M/s Bidhan Chandra Trigunait at Vill – Kasila, P.S. – Pakur (OP), Dist – Pakur (0.71 Ha) (SIA/JH/MIN/44871/2019)

This is a Stone Mining Project with an area of 0.71 Ha [Plot No. – 597, 598]. The latitude and longitude of the project site is 24°40'24.80"N To 24°40'26.72"N and 87°48'19.75"E To 87°48'26.57"E. The nearest railway station is Pakur Railway Station 6.33 Km SE and nearest airport is Birsa Munda Aiport, Ranchi, 294 km SW. Total water requirement is 5.05 KLD (Dust Suppression : 3.77 KLD, Afforestation / Green belt : 0.20 KLD, Drinking / Domestic : 1.08 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Geological Reserve: - 575395 Tonne

Mineable Reserve: - 177903 Tonne

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

1 st Year	:	42083 MT
2 nd Year	:	80701 MT
3 rd Year	:	46400 MT

The daily production as per Form-I is 269 max. TPD.

The indicated project cost is Rs 21 Lakh, a provision of Rs 5.12 Lakh has been indicated for Environment management and CER is Rs. 1.49 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 2170, dated 10.10.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 2132, dated 31.10.18 certified that the distance of notified forest is 280 m from proposed project site and no National Park located within 10km from project site.

The CO, Pakur vide letter no. 1878/R, dated 24.11.18 has mentioned the plot no. 597, 598 of the project is not recorded as "Jungle Jhari" in R.S Khatiyani & Register II.

DMO, Pakur vide memo no. 2538, dated 14.12.18 certified that altogether total mining in the area is 10.70 Acre (4.33 Ha) in the radius of 500 m.

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

Dust
Special Condition. Project is forwarded with recommendation for grant of
1. Local tress sps *EC - Annex - II (col. 1m)*

11. PoraBasuria Stone Mine of Sri Sobhamoy Rahut at Vill – PoraBasuria, P.O. – Benagaria, P.S. – Shikaripara, Dist – Dumka (1.17 Ha) (SIA/JH/MIN/44830/2019)

This is a Stone Mining Project with an area of 1.17 Ha [Plot No. – 772]. The latitude and longitude of the project site is 24°11'24.0" N To 24°11'20.1" N and 87° 35'27.0" E To 87° 35'20.6" E. The nearest railway station is Pinargaria Railway Station 9.5 Km SE and nearest airport is Birsa Munda Aiport, Ranchi, 250 km SW. Total water requirement is 4.9 KLD (Dust Suppression : 3.90 KLD, Afforestation / Green belt : 0.37 KLD, Drinking / Domestic : 0.63 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 242154.36 Tonne

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

1 st Year	:	34173.9 MT
2 nd Year	:	25587.9 MT
3 rd Year	:	23044.5 MT
4 th Year	:	39835.8 MT
5 th Year	:	5572.8 MT

The daily production as per Form-I is 132.786 max. TPD.

The indicated project cost is Rs 16.28 Lakh, a provision of Rs 6.15 Lakh has been indicated for Environment management and CER is Rs. 0.63 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 2102, dated 30.09.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and proposed project is not situated in any ESZ.

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The DFO, Dumka Division vide letter no. 1185, dated 04.04.17 certified that the distance of notified forest is 1020 m from proposed project site and no National Park located within 10km from project site.

The CO, Shikaripara vide letter no. 985/R, dated 14.10.19 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S Khatiyar & Register II.

DMO, Dumka vide memo no. 773, dated 28.04.17 certified that altogether total mining in the area is 2.90 Acre (1.17 Ha) in the radius of 500 m.

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

Project is forwarded with recommendation for grant of EC - Submittance - II
Special Condition

1. Fencing all along the periphery.
2. Plantation of local sps in the periphery & safety zone of the area.
3. Blank area be planted.

12. Common user POL Terminal of Indian Oil Tanking Ltd., Vill- Halnd pukur, Tehsil- Ghatshila, Circle- Potka, District- Singhbhum

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 04.11.2019 and 07.11.2019.

POL Terminal project of Tata Nagar of Indian Oil tanking Limited (Formerly IOT Infrastructure & Energy Services Ltd) was granted EC vide letter No- EC/SEIAA/2013-14/164/2013/503 dated 24/09/2014. Its EC has valid upto 23/09/2019. They requested for extension of Environmental Clearance for 3 years. There are no construction activities took place as on date.

In the SEAC meeting PP appeared himself and no consultant accompanied presentation realizing this PP requested to submit an application that the date of today's presentation be deferred for next meeting the said letter has been submitted PP has further submitted the Gazette notification SO 1960(E) dt. 13.06.2019 of MoEF&CC on page no. 09(6) item 6 (b) and that the entries relating there to shall be omitted.

SEAC discussed the matter and recommends to drop this proposal in view of above notification.

13. M/s Chhinnmastika Stone Minerals Project of Mr. Dihchand Mehta, Mr. Kailash Yadav & Mr. Prayag Mehto (Partnership), Village/Mouza- Amalkhori, P.S. - Hariharpur (Gomoh) District: Dhanbad, Jharkhand. 1.22 Ha (3.02 acres).

(Proposal No. : SIA/JH /MIN/44449/2019)

This is a stone Mining Project with an area of 1.22 Ha [Khata No.- 29, 58, 1 & Khasra No. 125, 126, 127, & 128 (Part)]. The latitude and longitude of the project site is 23°54'53.17"N to 23°54'50.80"N and 86°7'42.74"E to 86°7'42.04"E. The nearest railway station is Gomoh Railway Junction is at a distance of 4.58 km in South-East direction and nearest airport is Dhanbad Airport is at a distance of about 35.88 km in South-East direction. Total water requirement is 5.2 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 3,78,270 Tonnes

Year wise Production as per Approved Mining Plan Report

Year	Production of stone (Tonnes)
1 st	29,250
2 nd	29,178
3 rd	29,124
4 th	29,745
5 th	29,097
Total	1,46,394

The daily production is 290.97 tonne.

The indicated project cost is Rs 60 Lakh and a provision of Rs 1.7 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1780, dated 29.08.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and, proposed project is not situated in any ESZ.

DFO, Dhanbad vide letter no. 1661, dated 28.08.17 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

The CO, Topchanchi vide letter no. 560, dated 09.08.17 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Dhanbad vide memo no. 1404/M, dated 26.09.2019 certified that there is no other mining lease within 500m periphery of proposed mining lease. Total mining in the area is less than 5 ha in the radius of 500 m.

PP presented the details of the site plan, mining calendar plan, benchings environmental issues, budgetary estimates for environmental management & CSR.

SEAC discussed the matter and recommends to SEIAA for issuance of Environmental clearance with the conditions as in Annex. II

14. M/s Sone Baba Stone Minerals Project of Mr. Dihchand Mehta, Mr. Kailash Yadav & Mr. Prayag Mehto (Partnership), Village- Amalkhori, P.S. - Hariharpur (Gomoh) District: Dhanbad, Jharkhand. 1.07 Ha (2.645 acres).

(Proposal No. : SIA/JH /MIN/44408/2019)

This is a stone Mining Project with an area of 1.07 Ha [Khata No. 2 & 5 with Khasra No.- 92 (part) & 96]. The latitude and longitude of the project site is 23°54'55.5" N to 23°54'56.3" N and 86°7'41.3" E to 86°7'38.7" E. The nearest railway station is Gomoh Railway Junction is at a distance of 5.5 km in South-East direction and nearest airport is Dhanbad Airport is at a distance of about 35.0 km in South-East direction. Total water requirement is 6.7 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 47385 cum or 118463 tonnes

Proposed Production as per Approved Mining Plan :-

Year	Production of stone (Tonnes)
1 st	19012.5
2 nd	18562.5
3 rd	19552.5
4 th	19305
5 th	19642.5
Total	96075

The daily production is 91 tonne.

The indicated project cost is Rs 60 Lakh and a provision of Rs 2.4 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1781, dated 29.08.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and. proposed project is not situated in any ESZ.

DFO, Dhanbad vide letter no. 1662, dated 28.08.17 certified that the National Park, Bio-Diversity, Sanctuary& ESZ is not within 10 km from proposed project site.

The CO, Topchanchi vide letter no. 559, dated 09.08.17 has mentioned that the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani& Register II.

DMO, Dhanbad vide memo no. 1405/M, dated 26.09.2019 certified that there is no other mining lease within 500m periphery of proposed mining lease. Total mining in the area is less than 5 ha in the radius of 500 m.

DMO of LOI letter no. 1183 dated 06.08.19.

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 **Sone Baba Stone Mineral Project** of **Mr. Dalchand Mehta, Mr. Kailash Yadav and Mr. Prayag Mehto (Partnership)** Village : **Amlakhori, P.S. : Hariharpur (Gomoh), District : Dhanbad, Jharkhand 1.07 Ha (2.645 acres)** be recommended for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II.**

15. Latu Stone Mine of M/S Jagdhari Prasad at Village-Latu, P.S-Raidih, thana-No-10, Dist-Gumla, Jharkhand. (SIA/JH/MIN/38693/2019)

This is a Stone Mining Project with an area of 2.08 Ha [Khata NO-198.182.144 Plot No. – 3769,2174,2181, 2178, 3770, 2180,]. The latitude and longitude of the project site is 22°58'40.22"N To 22°48'47.93"N and 84°21'33.84"E To 84°21'34.46"E. The nearest railway station is Gumla Railway Station 95 Km South and nearest airport is Birsa Munda Airport, Ranchi, 130km SW. Total water requirement is 12 KLD (Dust Suppression : 3 KLD, Afforestation / Green belt : 05 KLD, Drinking / Domestic : 04 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Geological Reserve = 3071286.18 ton

Mineable Reserve = 875768.970 ton

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

1 st Year	:	44264.25 T
2 nd Year	:	44270.10 T
3 rd Year	:	44119.35 T
4 th Year	:	44118.20 T
5 th Year	:	44235.30 T

The daily production as per Form-I is 147.54 max. TPD.

The indicated project cost is Rs 28.40 Lakh, a provision of Rs 8.90 Lakh has been indicated for Environment management and CER is Rs. 2.15 Lakh

DFO, Wildlife Hazaribagh vide letter no. 656, dated 14.06.2019 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and, proposed project is not situated in any ESZ.

The DFO, Gumla Division vide letter no. 322, dated 31.01.2019 certified that the distance of notified forest is 1500 m from proposed project site and no National Park located within 10km from project site.

The CO, Raidih vide letter no. 72(ii), dated 14.02.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Gumla vide memo no. 662/M, dated 06.07.2019 certified that altogether total mining in the area is 5.16 Acre (2.08 Ha) in the radius of 500 m.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT. Principal Bench. New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for Latu Stone Mine of M/S Jagdhari Prasad at Village-Latu, P.S-Raidih, thana-No-10, Dist-Gumla, Jharkhand. (2.08 Ha), be

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recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

16. **Sadhu Bricks of M/S Sadhu Charan Sadhu at Village - Serka, Tehsil - Bishunpur, Dist- Gumla, Jharkhand.**

This project was appraised in the earlier meeting and EC recommendation was referred to non availability of DSR certificate.

The PP has submitted the undertaking that DMO report regarding DSR will be submitted.

Based on the above SEAC recommends for issuance of EC, alongwith the following conditions as in Annex I.

17. **Konbir Bricks Earth Mining of Shree Brindaban Construction at Khata no. 15 Plot no. 1663 (P) at Village - Kobir Tehsil - Basia, Dist-Gumla, Jharkhand.**

EC of this project was issued vide letter no. EC/SEIAA/2018-19/2179/2079/594 dated 26.10.19.

Later on it has been identified that there has been typographical error of the name and amount of production.

Now this is corrected as Shree Brindaban Construction and the production figure is 15.00 lakh Bricks per annum.

SEAC recommends the case to SEIAA for issuance of corrected EC as a corrigendum.

18. **Jyoti Pahari Open Cast Kynait Project of M/s. JSMDC Ltd, Vill. Jyoti Pahari. Tehsil : Ghatshila, Dist. Singhbhum East (20.331 Ha).**

(Proposal no. : SIA/JH/MIN/25091/2018)

SEIAA has returned the proposal with the observation that the PP will submit revised Form I, DFO & CO certificates and SEAC will re-examine the submitted certificates and send the fresh recommendation to SEIAA for grant of ToR.

PP has submitted the above corrected documents and SEAC has appraised accordingly.

SEAC recommends to SEIAA for grant of ToR with violation TOR as per MCEFC S.O. No-14th March, 2017

19. **Shri Bhole Minerals Vill. Chainpur P.S. Belidih, Dist. Bokaro, Jharkhand.**

The issuance of EC was recommended due to non availability of DSR for this project in earlier meeting of SEAC.

PP has submitted a letter dated 05.11.19 that the Bokaro district DSR has been uploaded in NIC portal wherein this project has recommended in DSR.

In view of the above SEAC request SEIAA for issuance of EC alongwith the following conditions Annex II

20. **Hathigarh Stone Mine of M/s. Darshana Stone Works, Vill. Hathigarh, P.O. Littipara Dist. Pakur Jharkhand.**

This project was appraised by SEAC in its 75th meetings held on 24-26 July, 2019.

Earlier this project was not included in the DSR and as such M/s SEAC was advised to get at a clarification regarding this DSR issue.

DC, Pakur vide its letter no. 1896/M dated 26.10.19 has forwarded the upgraded DSB of Pakur District wherein this project has been included.

In view of the above SEAC request SEIAA for sanction of FC alongwith the following conditions Annex II.

21. **Hathigarh Stone Mine of M/s. Natia Stone Works, Vill. Hathigarh, P.O. Laldipara Dist. Pakur Jharkhand.**

This project was appraised by SEAC in its 7th meeting, held on 21.06.2019.

Earlier this project was not included in the DSB and as such M/s. SEAC was advised to get a clarification regarding this DSB issue.

DC, Pakur vide its letter no. 1896/M dated 26.10.19 has forwarded the upgraded DSB of Pakur District wherein this project has been included.

In view of the above SEAC request SEIAA for sanction of FC alongwith the following conditions Annex II.

22. **Sarachi Greens Project, Tata Nagar, Jharkhand of Sarachi Realty Pvt. Ltd, Vill. Tamulia Dist.- Saraikela-Kharsawan, Jharkhand**

In the SEAC meeting held on 24.10.19, the above proposal was approved. During the appraisal certain observation were raised.

The PP has replied the observations on 01.11.2019.

The PP has submitted the required documents at the fagend of the meeting which could not be examined. Hence document submitted by the PP along with all the documents is being forwarded to SEIAA for needful.

23. **Construction (Inculding structural design) of 065 dwelling units by 19 number of G+2 blocks with 35 dwelling units each) at mohampur, Deoghar under Pradhan Mantri Awas Yojna (urban) (package-E).**

In the SEAC meeting held on 24.10.19, the above proposal was approved. During the appraisal certain observation were raised.

The PP has replied the observations on 01.11.2019.

The PP has submitted the required documents at the fagend of the meeting which could not be examined. Hence document submitted by the PP along with all the documents is being forwarded to SEIAA for needful.

Day 4 : November 07, 2019 [Thursday]

Any other matter with the permission of the Chair:-

Chairman SEAC opined that this 8th meeting of SEAC has been the last meeting which from 4th - 7th November, 2019. A number of project proposals of small units like bricks and stone mines were lying to be appraised for want of time. In the interest of infrastructure development, seasonal nature and employment consideration of weaker segment and rural economy on the initiation of the State Government, these projects were permitted by the Chairman to be taken up. Since it was not possible to exclude the brick mining from the list,

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the other proposals received in SEAC after 18th October, 2019 i.e. upto 24th October were taken up for appraisal with all due diligence and careful scrutiny.

Bricks: Excavation of earth considered is a manual activity. Soil is essential land component contributes in agriculture productivity depending upon type of agriculture the fertility, water innutrition requirement, irrigation climate. Conditions and many other climate factors. Value of agriculture land depends upon its yield and other revenue related regulation & norms. Environment impact includes soil erosion, salinity, nutrient deficiency & dust dispersed in air under varying climate conditions. On the other hand, supply side considerations for earth includes following considerations. Soil & Earth excavation comes under minor mineral activity. Mining of Earth is targeted to use mined out product for production of burnt clay & as such earth excavation is considered as a linked project. Traditionally earth mining & burnt clay bricks is a decentralized activity being practiced in a rural areas of country. Although operation of such burnt clay brick production utilizes local skills. Bricks is used for wall envelope of shelter & shelter construction sector. Yet it affects land environment and soil. So efficient use of resources becomes use of issue of prime concerned for optimized decisions. While considering recommendations for soil excavation, it becomes pertinent to examine issues for linked project. Presently, mostly the burnt clay bricks utilizes CBTkilns & as such utilizes huge quantity of local for burning on average ranging from 18-20 MT/ lac bricks.

Utilization of this technology results in production of poor quality of bricks beside poor productivity, low revenue surplus & so little attention for employment security & labor welfare. Migration of labor & loss of revenue under the prevailing situation, thus becomes a viscous circle.

Recent advancement in switch over to 10/ natural zig zag kiln is expected to reduce coal consumption by 6-8 MT/ Lac bricks besides better productivity & higher revenue generation which may lead to better attention for labor security and engagement for labor welfare activities. It is in this background Hon'ble NGT and Supreme Court directed to switch over to go Zig-Zag kiln. Hon'ble CM, Jharkhand now have extended time limit for installation of cleaner brick kilns (10/ natural draft zig- zag kilns) before the last date to obtain CTE from JSPCB. Considering all these proposals, the proposal for sustainable Earth mining has been considered by SEAC in its 82 th meeting. In addition to soil erosion, soil quality is affected by other aspects of agriculture. These impacts include compaction, loss of soil, structure, nutrient degradation & soil salinity & loss of agriculture produce. The effect of soil erosion go beyond the loss of fertile land.

Excavation hazards may include during earth collapse due to shallow pit excavation, falling into excavated pits contact with buried electrical, gas / oil pipe lines, collapse of soiling vicinity of building structure etc and may give rise to injury, shocks, suffocation due to soil heats & electrification in addition to leakage from underground waste.

Excavation of earth considered is a manual activity. Soil as vil fuce, of techs agriculture productivity depending upon type of agriculture the fertility, water nutrition requirement, irrigation and climate Conditions and many other climate factors. Value of agriculture land depends upon its yield and other revenue related regulation & norms. Environment impact includes soil erosion, salinity, nutrient deficiency & dust spread in air under varying climate conditions. On the other hand, supply side considerations for earth includes following

considerations. Soil & Earth excavation comes under minor mineral activity. Mining of Earth is targeted to use mined out product for production of burnt clay & as such earth excavation is considered as a linked project. Traditionally earth mining & burnt clay bricks is a decentralized activity being practiced in a rural areas of country. Although operation of such burnt clay brick production utilizes local skills. Bricks is used for wall envelope of shelter & shelter construction sector. Yet it affects land environment and soil. So efficient use of resources becomes use of issue of prime concern for optimized decisions.

While considering recommendations for soil excavation, it becomes pertinent to examine issues for linked project. Presently, mostly the burnt clay bricks utilizes FTCBT kilns & as such utilizes huge quantity of local for burning on average ranging from 18-20 MT/ lac bricks. Utilization of this technology results in production of poor quality of bricks beside poor productivity, low revenue surplus & so little attention for employment security & labour welfare. Migration of labor & loss of revenue under the prevailing situation, thus becomes a vicious circle. Recent advancement in switch over to 10/ natural zig zag kiln is expected to reduce coal consumption by 6-8 MT/ Lac bricks besides better productivity & higher revenue generation which may lead to better attention for labor security and engagement for labour welfare activities. It is in this background Hon'ble NGT and Supreme Court directed to switch over to go big-Tax kiln. Hon'ble CM, Jharkhand now have extended time limit for installation of cleaner brick kilns (10/ natural draft zig- zag kilns) before the last date to obtain CTE from JSPCB. Considering all these proposals, the proposal for sustainable Earth mining has been considered by SEAC in its 82 Th meeting. In addition to soil erosion, soil quality is affected by other aspects of agriculture. These impacts include compaction, loss of soil, structure, nutrient degradation & soil salinity & loss of agriculture produce. The effect of soil erosion go beyond the loss of fertile land. Excavation hazards may include during earth collapse due to shallow pit excavation, falling into excavated pits contact with buried electrical, gas / oil pipe lines, collapse of soil in vicinity of building structure etc. and may give rise to injury , shocks , suffocation due to soil heats & electrification in addition to leakage from underground waste.

Conditions:-

PP shall maintain first aid facility at mining site.

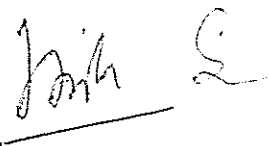
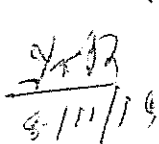
PP shall provide guard rails/ barricade with warning signals.

PP shall provide minimum two entries/ exits & install emergency escape from excavated areas.


Top soil up to 30 cm shall be preserved separately & used further in areas requiring improvement of agriculture productivity.

This EC is recommended subject to fulfillment of condition that PP shall install ID/natural draft Zig-Zag Kiln within the time frame allowed by state as per NGT order and gety CTE from JSPCB.

This is subject all due diligence as per regulatory bodies and Court directives.



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Consideration of Proposals

1. Pokharia Stone Mine Project of M/S K.K.Stone at Mouza- Pokharia , P.O-Benagaria, P.S- Shikaripara, Dist-Dumka Jharkhand (2.98 Ha)

This is a Stone Mining Project with an area of 2.98 Ha [Plot No. –538(P), 539(P), 540(P), 541, 542(P), 543(P), 1186(P), 1189, 1190(P), 1191(P), 1192, 1197(P), 1221, 1222, 1223, 1224(P), 1225(P), 1226, 1227, 1228(P), 1229(P), 1230(P), 1231(P), 1232(P), 1233, 1234, 1235(P)]. The latitude and longitude of the project site is 24°12'6.74"N To 24°11'54.45"N and 87°33'35.32"E To 87°33'38.64"E. The nearest railway station is Pinargaria Railway Station 8.5 Km East and nearest airport is Birsa Munda Airport, Ranchi, 250 km SW. Total water requirement is 5.76 KLD (Dust Suppression : 3.71 KLD, Afforestation / Green belt : 0.97 KLD, Drinking / Domestic : 1.08 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Geological Reserve = 261447 cum

Mineable Reserve = 209157.6 cum

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

1 st Year	:	68704.2 MT
2 nd Year	:	58587.3 MT
3 rd Year	:	198433.8 MT
4 th Year	:	120139.2 MT
5 th Year	:	67861.8 MT

The daily production as per Form-I is 661max. TPD.

The indicated project cost is Rs33.25Lakh, a provision of Rs6.15 Lakh has been indicated for Environment management and CER is Rs. 3.34 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 2196, dated 14.10.19 certified that there is no Wildlife Sanctuary. Bio-Diversity & Sanctuary located within 10km from project site and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter no. 844, dated 15.03.17 certified that the distance of notified forest is 1020 m from proposed project site and no National Park located within 10km from project site.

The CO, Shikaripara vide letter no. 1004/R, dated 17.10.19 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. 1430, dated 28.07.17 certified that altogether total mining in the area is 12.03 Acre (4.87Ha) in the radius of 500 m.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Pokharia Stone Mine Project of M/S K.K.Stone at Mouza- Pokharia , P.O-Benagaria, P.S- Shikaripara, Dist-Dumka Jharkhand (2.98 Ha). be recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

2. Tharghat Bricks Clay Mine Project of M/s Prakash Bricks, Village- Tharghat, P.S. – Hariharganj, District: Palamau, Jharkhand 1.008 Ha, (2.49 acres). (Proposal No. : SIA/JH/MIN/44294/2019)

This is a Bick clay Mining Project with an area of 1.008 Ha [Plot No. 348, 350, 352, 353, 354, 355, 356 & 360]. The latitude and longitude of the project site is 24°30'44.60"N to 24°30'52.14"N and 84°15'49.60"E to 84°15'53.33"E. The nearest railway station is Kajrat Navadih Railway Station at a distance of 23.0 km towards NW direction and nearest airport is Daltonganj Airport at a distance of 57.0 km in SW direction. Total water requirement is 5.2 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 7090 cum

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

Year	Quantity of brick earth (m ³)	Nos of Bricks Proposed
1 st Year	1584.00	6,00,000
2 nd Year	1584.00	6,00,000
3 rd Year	1584.00	6,00,000
4 th Year	1584.00	6,00,000
5 th Year	754.00	6,00,000
Total	7090.00	30,00,000

The indicated project cost is Rs 12 Lakh and a provision of Rs 2.0 Lakh has been indicated for Environment management.

DFO, wildlife, Medninagar vide letter no. 2105, dated 25.09.2019 certified that the National Park, Bio-Diversity, Sanctuary& ESZ is not within 10 km from proposed project site.

DFO, Medinagar vide letter no. 4629, dated 06.10.18 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

The CO. Hariharganj vide letter no. 352 dated 15.10.18 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

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DMO, Palamau vide memo no. 1556/M. dated 17.10.19 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 **Tharghat Bricks Clay Mine Project of M/s Prakash Bricks, Village- Tharghat, P.S. – Hariharganj, District: Palamau, Jharkhand 1.008 Ha, (2.49 acres).** be conditionally (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure – I**

3. **Hathidari Stone Deposit of M/s M/s A.S.R. Stone Works (Partner: Sri Amrendra Kumar Singh), Mouza- Hathidari, Sub-Division: Rajmahal, District- Sahibganj, Jharkhand. (4.45 Ha). (Proposal No. : SIA/JH /MIN/45037/2019)**

This is a Stone Mining Project with an area of 4.45 Ha [Plot No. . 2(P), 3(P), 4, 5, 9(P), 19(P)]. The latitude and longitude of the project site is 25°13'19.20"N to 25°13'25.86"N and Longitude 87°34'45.94"E to 87°34'59.92"E. The nearest railway station is Karamtola Railway station is at approx.4.5 km toward NW direction and nearest airport is Malda Airport is at approx. 60 km towards SE direction. Total water requirement is 7.15 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 14.88,401.46 tonne

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

Year	Production of stone (Tonnes)
1 st	1,49,575.73
2 nd	1,49,459.31
3 rd	1,50,186.96
4 th	1,50,377.47
5 th	1,50,377.47
Total	7,49,976.94

The daily production is 501.25 tonne.

The indicated project cost is Rs 40 Lakh and a provision of Rs 5.0 Lakh has been indicated for Environment management.'

DFO, wildlife, Hazaribag vide letter no. 1544, dated 03.08.2019 certified that the National Park, Bio-Diversity, Sanctuary& ESZ is not within 10 km from proposed project site.

DFO, Sahibganj vide letter no. 2087, dated 16.11.17 certified that the National Park, Bio-Diversity, Sanctuary& ESZ is not within 10 km from proposed project site.

The CO, Mandro vide letter no. 210, dated 27.02.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S.Khatyan& Register II.

DMO, Sahibganj vide memo no. 581/M, dated 05.03.2018 certified that there is no other mining lease within 500m periphery of proposed mining lease. 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 **Hathidari Stone Deposit of M/s M/s A.S.R. Stone Works (Partner: Sri Amrendra Kumar Singh), Mouza- Hathidari, Sub-Division: Rajmahal, District- Sahibganj, Jharkhand. (4.45 Ha).** be recommended for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II.**

4. **Kutlu Stone Deposit of M/s Priya Stone Mines, Village- Kutlu, P.O. – Jairagi, P.S.- Dumri, District-Gumla, State-Jharkhand. (1.756 Ha). (Proposal No. : SIA/JH /MIN/45130/2019)**

This is a Stone Mining Project with an area of 1.756 Ha [Plot No.-931, Khata No.-114]. The latitude and longitude of the project site is 23°19'04.82"N to 23°19'12.37"N and Longitude 84°08'58.58"E – 84°09'04.77"E. The nearest railway station is Gumla Railway station, approx. 48 km toward North direction and nearest airport is Ranchi Airport, approx. 119 km in East Direction. Total water requirement is 4.0 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 5.10.000 Tonnes

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

Year	Production of stone (Tonnes)
1 st	51000.00
2 nd	51000.00
3 rd	51000.00
4 th	51000.00
5 th	51000.00
Total	255000.00

The daily production is 170 tonne.

The indicated project cost is Rs 30 Lakh and a provision of Rs 4.8 Lakh has been indicated for Environment management.

DFO, wildlife, Ranchi vide letter no. 1056, dated 24.09.2019 certified that the National Park, Bio-Diversity, Sanctuary& ESZ is not within 10 km from proposed project site.

DFO, Gumla vide letter no. 2290, dated 28-09-2019 certified that the National Park, Bio-Diversity, Sanctuary& ESZ is not within 10 km from proposed project site.

The CO, Dumri, vide letter no. 229 (ii), dated 14-10-2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan& Register II.

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DMO, Sahibganj vide memo no. 947/M. dated 18.10.2019 certified that there is no other mining lease within 500m periphery of proposed mining lease. 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 **Kutlu Stone Deposit of M/s Priya Stone Mines, Village- Kutlu, P.O. – Jairagi, P.S.-Dumri, District-Gumla, State-Jharkhand. (1.756 Ha).** be recommended for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II.**

5. **Kurse Brick Clay Deposit of M/s Hatim Clay Deposit, Village – Kurse, P.O.- Lohardagga, District Lohardaga, Jharkhand. (Area- 1.044 Ha.) (Proposal No. : SIA/JH/MIN/44294/2019)**

This is a Brick clay Mining Project with an area of 1.044 Ha [Plot No. 1384, 1399 PLOT 12 & 82]. The latitude and longitude of the project site is Latitude -23°31'17.67"N to 23°31'21.86"N and Longitude- 84° 42'01.48"E to 84°42'05.78"N. The nearest railway station is Barkichanpi Railway Station at a distance of 5.0 km towards NE direction from site and nearest airport is Birsa Munda Airport at a distance of 55.0 km in East direction. Total water requirement is 3.5 KLD. Water will be taken from nearby village.

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

Year	Quantity of brick earth (m ³)	Nos of Bricks Proposed
1 st Year	1714.40	6,00,000
2 nd Year	1714.40	6,00,000
3 rd Year	1714.40	6,00,000
4 th Year	1714.40	6,00,000
5 th Year	1714.40	6,00,000
Total	8572.00	30,00,000

The indicated project cost is Rs 12 Lakh and a provision of Rs 1.5 Lakh has been indicated for Environment management.

DFO, wildlife, Ranchi vide letter no. 1164, dated 21.10.2019 certified that the National Park, Bio-Diversity, Sanctuary& ESZ is not within 10 km from proposed project site.

DFO, Lohardaga vide letter no. 79, dated 09.01.19 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

The CO, Lohardaga vide letter no. 18 dated 08.01.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Lohardaga vide memo no. 613/M, dated 14.08.19 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 **Kurse Brick Clay Deposit of M/s Hatim Clay Deposit, Village – Kurse, P.O.-Lohardaga, District Lohardaga, Jharkhand. (Area-1.044 Ha.)** be **conditionally** (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure – I**

6. **Mahishmarwa Stone Mine of Shri Chhote Lal Mehta at vill-Mahishmarwa, Tehsil-Danwar, Dist- Giridih (1.61 Acre)**

This is a Stone Mining Project with an area of 1.61 Ha [Khata N0-50, Plot No. – 281(P)]. The latitude and longitude of the project site is 24°30'16.03"N To 24°30'20.8"N and 85°54'59.9"E To 85°55'05.4"E. The nearest railway station is Giridih Railway Station 24 Km South and nearest airport is Birsa Munda Aiport, Ranchi, 390 km SW. Total water requirement is 5. KLD (Dust Suppression, : Domestic, and plantation). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & a fforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Geological Reserve = 1542972 ton

Mineable Reserve = 976170 ton

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

1 st Year	:	97556 T
2 nd Year	:	97614 T
3 rd Year	:	97616 T
4 th Year	:	97612 T
5 th Year	— :	97544 T

The daily production as per Form-I is 325.38 max. TPD.

The indicated project cost is Rs 32.00 Lakh. a provision of Rs 2.00 Lakh has been indicated for Environment management and CER is Rs. 50.000 Thousand.

DFO, Wildlife Hazaribagh vide letter no. 1938, dated 14.09.2019 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and, proposed project is not situated in any ESZ.

The DFO, Giridih Division vide letter no. 2396, dated 04.10.2019 certified that the distance of notified forest is 250 m from proposed project site and no National Park located within 10km from project site.

The CO, Dhanwar vide letter no. 1008, dated 07.09.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

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DMO, Giridih vide memo no. 3027/M, dated 27.06.2015 certified that altogether total mining in the area is 4 Acre (1.61 Ha) in the radius of 500 m.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Mahishmarwa Stone Mine of Shri Chhote Lal Mehta at vill-Mahishmarwa, Tehsil-Danwar, Dist- Giridih (1.61 Acre)**, be recommended for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II**.

7. Olmunda Sand Mine (KeondChanwraGhat) Project of Samim Khan, Vill. : Olmunda, Taluka :Sisai, Dist.: Gumla(5.873 Ha). (Proposal No.: SIA/JH/MIN/44138/2018)

This is a Sand Mining Project with an area of 5.873 Ha [Khata no. 142, Plot No.-1738 (P) & 1739 (P)]. The latitude and longitude of the project site is 23° 02' 13.90" N to 23° 02' 27.40" N and 84° 43' 42.20" E to 84° 43' 55.58" E. The nearest railway station is Pokla at a distance of 36.0 km and nearest airport is Ranchi at a distance of about 100 km. Total water requirement is 7.50 KLD. Water will be taken from dug well located nearby project location.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	93,800 m ³
Gross Reserve	:	1,88,818 m ³

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

1 st Year	:	93,375 m ³
2 nd Year	:	93,375 m ³
3 rd Year	:	93,375 m ³

The daily production as per Form-I is 415m³.

The indicated project cost is Rs. 51.85 Lakh and a provision of Rs. 3.50 Lakh has been indicated for Environment management.

DFO, Wildlife Ranchi vide memo no. 1166, dated 21.10.19 certified that the National Park, Bio-Diversity and Sanctuary are not within 10 km from proposed project site. Project location is outside the ESZ. The distance of project boundary from ESZ is 2.07 km.

The DFO, Gumla Division vide letter no. 1854 dated 05.07.18 certified that the distance of notified forest is 260 m from proposed project site.

The CO, Sisai (Gumla) vide letter no. 43, dated 17.01.17 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Gumla vide memo no. 1349/M, dated 23.08.17 certified that no other sand mining in the radius of 1000 m and no bridge, intake well within radius of 500m.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M

dated 12.12.18 decided that the proposal for **Olmunda Sand Mine (KeondChanwraGhat) Project of Samim Khan, Vill. : Olmunda, Taluka :Sisai, Dist.: Gumla(5.873 Ha).** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - ~~III~~ (IV)

8. **Olmunda Sand Mine (Pat SarnaGhat) Project of Samim Khan, Vill. : Olmunda, Taluka :Sisai, Dist.: Gumla(6.075 Ha).** (Proposal No. : SIA/JH/MIN/44229/2018)

This is a Sand Mining Project with an area of 6.075 Ha [Khata no. 142, Plot No.-1739 (P) & 2729 (P)]. The latitude and longitude of the project site is 23° 01' 56.53" N to 23° 02' 03.36" N and 84° 44' 20.79" E to 84° 44' 39.76" E. The nearest railway station is Pokla at a distance of 35.0 km and nearest airport is Ranchi at a distance of about 100 km. Total water requirement is 8.00 KLD. Water will be taken from dug well located nearby the project location.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	1,10,403 m ³
Gross Reserve	:	2,22,371 m ³

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

1 st Year	:	1.08,000 m ³
2 nd Year	:	1.08,000 m ³
3 rd Year	:	1.08,000 m ³

The daily production as per Form-I is 480 m³.

The indicated project cost is Rs. 64.50 Lakh and a provision of Rs. 3.50 Lakh has been indicated for Environment management.

DFO, Wildlife Ranchi vide memo no. 1168, dated 21.10.19 certified that the National Park, Bio-Diversity and Sanctuary are not within 10 km from proposed project site. Project location is outside the ESZ. The distance of project boundary from ESZ is 2.29 km.

The DFO, Gumla Division vide letter no. 1855 dated 05.07.18 certified that the distance of notified forest is 280 m from proposed project site.

The CO, Sisai (Gumla) vide letter no. 44, dated 17.01.17 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Gumla vide memo no. 1348/M, dated 23.08.17 certified that no other sand mining in the radius of 1000 m and no bridge, intake well within radius of 500m.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Olmunda Sand Mine (Pat SarnaGhat) Project of Samim Khan, Vill. : Olmunda, Taluka :Sisai, Dist.: Gumla(6.075 Ha).** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - ~~III~~ IV

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9. Vibgyor Estates Pvt. Ltd. & High Street Enterprises Pvt. Ltd. of Vibgyor Estates Pvt. Ltd. & High Street Enterprises Pvt. Ltd. at Plot Khata No. - 360 & Plot No. - 1133, Vill. : Misirgonda, Tehsil : Hehal, Dist. : Ranchi, State : Jharkhand.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000sq m and development area is less than 50 ha. The latitude and longitude of the project site is 23°24'2.23"N to 23°24'4.25"N and 85°18'52.60"N to 85°18'52.15"N.

Salient Features of the project :

Item	Details																														
Project Name	Vibgyor Estates Pvt. Ltd. & High Street Enterprises Pvt. Ltd.																														
Location	Plot No. - 1133 Khata No. - 360 Village - Misirgonda Tehsil - Hehal District - Ranchi State - Jharkhand																														
Type of Project	This Building Construction Project consists of two Blocks. Block A is Commercial Complex (High Street Enterprises). Block B is Residential (Vibgyor Estates)																														
Total Plot Area	7025.66 Sq. m.																														
Building Configuration.																															
Block A (Commercial Complex)	Block B (Residential)																														
Built-up Area: 3880.08 Sq.mt.	Built-up Area: 28341.79 Sq.mt.																														
<table border="1"> <thead> <tr> <th>Floor Name</th><th>Built up Area Sq. mt.</th></tr> </thead> <tbody> <tr> <td>Ground Floor</td><td>1088.52</td></tr> <tr> <td>First Floor</td><td>896.77</td></tr> <tr> <td>Second Floor</td><td>896.77</td></tr> <tr> <td>Third Floor</td><td>765.68</td></tr> <tr> <td>Fourth Floor</td><td>232.34</td></tr> <tr> <td>Total</td><td>3880.08</td></tr> </tbody> </table>	Floor Name	Built up Area Sq. mt.	Ground Floor	1088.52	First Floor	896.77	Second Floor	896.77	Third Floor	765.68	Fourth Floor	232.34	Total	3880.08	<table border="1"> <thead> <tr> <th>Floor Name</th><th>Built up Area Sq. mt.</th></tr> </thead> <tbody> <tr> <td>Lower Basement</td><td>4899.52</td></tr> <tr> <td>Upper Basement</td><td>4899.52</td></tr> <tr> <td>Ground Floor</td><td>1147.34</td></tr> <tr> <td>First to Thirteenth Floor</td><td>1168.07</td></tr> <tr> <td>Fourteenth Floor</td><td>1164.84</td></tr> <tr> <td>Fifteenth Floor</td><td>1045.66</td></tr> <tr> <td>Total</td><td>28341.79</td></tr> </tbody> </table>	Floor Name	Built up Area Sq. mt.	Lower Basement	4899.52	Upper Basement	4899.52	Ground Floor	1147.34	First to Thirteenth Floor	1168.07	Fourteenth Floor	1164.84	Fifteenth Floor	1045.66	Total	28341.79
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Carpet Area: 3578.69 Sq.mt.																															

<table><tr><th>Floor Name</th><th>Carpet Area Sq. mt.</th></tr><tr><td>Ground Floor</td><td>1016.09</td></tr><tr><td>First Floor</td><td>828.18</td></tr><tr><td>Second Floor</td><td>828.22</td></tr><tr><td>Third Floor</td><td>706.14</td></tr><tr><td>Fourth Floor</td><td>200.05</td></tr><tr><td>Total</td><td>3578.69</td></tr></table>	Floor Name	Carpet Area Sq. mt.	Ground Floor	1016.09	First Floor	828.18	Second Floor	828.22	Third Floor	706.14	Fourth Floor	200.05	Total	3578.69	<table><tr><th>Floor Name</th><th>Carpet Area Sq. mt.</th></tr><tr><td>Ground Floor</td><td>900.85</td></tr><tr><td>First to Thirteenth Floor</td><td>930.91</td></tr><tr><td>Fourteenth Floor</td><td>936.58</td></tr><tr><td>Fifteenth Floor</td><td>853.63</td></tr><tr><td>Total</td><td>14792.94</td></tr></table>	Floor Name	Carpet Area Sq. mt.	Ground Floor	900.85	First to Thirteenth Floor	930.91	Fourteenth Floor	936.58	Fifteenth Floor	853.63	Total	14792.94
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Total	14792.94																										
Carpet Area: 14792.94 Sq.mt.																											

Water Consumption:	
Block A (Commercial Complex)	Block B (Residential)
Total Water Demand is 24 KLD. Which is further bifurcated below. Potable water demand is 6 KLD. Flushing water demand is 18KLD.	Total water requirement is 91 KLD which includes potable, flushing, horticulture, floor cleaning & dust suppression.

Parking Area Details:	
Block A (Commercial Complex)	Block B (Residential)
As per Annex A (Clause A-1) of National Building Code of India 2016, In case of permitted mixed residential-commercial or mixed residential-industrial areas the parking requirements shall be double the number for residential use. Therefore, the parking area indicated in Block B is double of the residential requirement.	Lower Basement: 4000 Sq.mt. Upper Basement: 4000 Sq.mt.

Power requirement:	450 KVA
Source of Power	JSEB
Project Cost	Rs. 50,00,00,000.00 /-
Connectivity	Approach road to be constructed to connect to exiting road.

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Fire Fighting System

Fire Fighting System will be designed in such a way to be efficient and cost effective in such a way to minimize the energy requirement. A centralized under-ground Water tank for one day water storage will be provided.

Adequate Fire Fighting System is proposed Wet Riser & Hydrant system to the building with the extra provision of sprinkler protection at each floor as per the NBC part IV.

Rain Water Harvesting

Rain water from roof tops will be drained through rain water vertical down take pipes. These vertical down take pipes shall be located at suitable locations inside the shafts or periphery of the building. The terrace will be sloped. The down take pipes will be connected to the storm water network and then to Rainwater Harvesting Pits.

Runoff Calculation of the Area

Type of Surface	Catchment Area(m ²) PP	Runoff Coefficient	Intensity of Rainfall (mm/hr)	Intensity of Rainfall (m/hr)	Runoff (m ³ /hr) PP
Total Roof/Terrace Area Block - A	1016.09	0.85	90	0.09	77.75
Total Roof/Terrace Area Block - B	900.85	0.85	90	0.09	68.91
Total runoff water					146.64

Numbers of Pits Calculation

Volume of desilting tank	Volume of recharge pit	Total Volume	Runoff in 60 minutes	No. of pits required	No. of pits proposed
12 m ³	3.5 m ³	17.5 m ³	146.64	8.37	8 pits

Waste Water Management

Estimated quantity of wastewater to be generated is 70% of the water used.

Block A (Commercial Complex)

Source of Waste water will be from potable and flushing use of 24 KLD. Therefore, waste water to be generated is 17 KLD.

Quantity of treated water will be 80% of waste water to be generated. Therefore, quantity of treated water will be 13.5 KLD.

Block B (Residential)

Source of waste water will be from Potable and flushing use, that is 56 KLD. Therefore waste water to be generated will be 39 KLD.

Quantity of treated water will be 80% of waste water to be generated. Therefore, quantity of treated water will be 31 KLD.

Therefore, total quantity of treated water from both the blocks will be 44.5 KLD. Treated water will be reused in both the blocks, in uses like horticulture, floor cleaning, flushing.

Sewage Treatment Plant

STP is proposed to be installed within premises for waste water treatment. Therefore, there will be no incremental pollution load from wastewater generated. The waste water generated will be treated and will be reused.

Solid Waste

Solid wastes generated from operation phase are given in Table below. About 339 Kg / day of solid wastes are likely to be generated due to the proposed project.

Waste	Quantity (Kg / Day)	Treatment Method
Organic	135.6 Kg	Sent to local body
In-organic	203.4 Kg	Sent to local body

Municipal solid waste will be collected in 3 colored bins namely, green, yellow and red bins. Green is for collection of biodegradable waste. Yellow is for non-biodegradable & recyclable waste, red colored bin is for non-biodegradable & non-recyclable waste.

This way all the waste will be segregated at the source of generation, Municipal corporation vehicle will collect the waste from these 3 bins.

DFO Territorial issued a certificate vide letter no. – 4794, dated – 15/10/2019 & stating that there is no Forest within 250 m radius of proposed project site & No-Mining Zone is moreover 10 Km from proposed project site.

DFO Wildlife issued a certificate vide letter no. – 1146, dated – 11/10/2019 & stating that there is no National Parks & Wildlife Sanctuary situated within 10 Km radius of proposed project site.

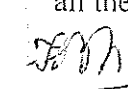
CO in its certificate (Letter No. – 647 (ii) , dated – 09/10/2019) has stated that the land is not recorded in revenue record as Jungle – Jhari.

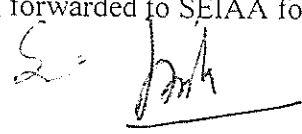
The project proposal is having included in master plan and approved building plan

PP and the consultant presented the project. Following observation have been identified. These are:

1. The project proposal, drawing & documents are signed separately by authorised signatory of two private Ltd. Co. In fact, it should be signed in the name of construction of it letter head. Signature of consortium leader or both directors.
2. Earth work quantity is high needs to be rechecked in view of adoption of pile foundation. Computational detail to be provided.
3. Earth work quantity mentioned enclose 1.6 appendix II appears to be inconsistent to be checked.
4. Project proposal and drawing need to be signed by consortium on its letter head.
5. Rain water harvesting pit retention time needs to be 60 minutes.

The PP has submitted the some documents at the sag end of the meeting, which along with the proposal itself could not be examined. Hence document submitted by the PP along with all the documents is being forwarded to SEIAA for needful.


8/11/19







10. Siyarkatia Stone Mine of M/S Bom baski Stone Works at Village-Siyarkatia, P.S- Devpur, Dist- Godda, Jharkhand. (1.62 Ha).

This is a Stone Mining Project with an area of 1.62 Ha [Khata No-54, Plot No. -1057(P)]. The latitude and longitude of the project site is 24°38'15.4"N To 24°38'08.5"N and 87°19'29.2"E To 87°19'25.8"E. The nearest railway station is Dumka Railway Station 40 Km South and nearest airport is Birsa Munda Aiport, Ranchi, 250 km SW. Total water requirement is 5.51 KLD (Dust Suppression : 3.58 KLD, Afforestation / Green belt : 0.53 KLD, Drinking / Domestic : 1.40 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Geological Reserve = 185250 cum

Mineable Reserve = 129675 cum

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

1 st Year	:	36153 MT
2 nd Year	:	28809 MT
3 rd Year	:	24570 MT
4 th Year	:	20655 MT
5 th Year	:	19197 MT

The daily production as per Form-I is 120.51 max. TPD.

The indicated project cost is Rs 25.75 Lakh, a provision of Rs 6.31 Lakh has been indicated for Environment management and CER is Rs. 0.66 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 2195, dated 14.10.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and proposed project is not situated in any ESZ.

The DFO, Godda Division vide letter no. 1920, dated 12.10.19 certified that the distance of notified forest is 1020 m from proposed project site and no National Park located within 10km from project site.

The CO, Mandro vide letter no. 1690/R, dated 10.10.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Godda vide memo no. 1098, dated 19.09.16 certified that altogether total mining in the area is 4 Acre (1.62 Ha) in the radius of 500 m.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT. Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for Siyarkatia Stone Mine of M/S Bom baski Stone Works at Village-Siyarkatia, P.S- Devpur, Dist- Godda, Jharkhand. (1.62 Ha).

be recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

11. **Brick Soil Mining For M/s J.K.B. Bricks, Proprietor: Sri Ram Das Sahu, at Mouza – Kurum, Thana -Ormanjhi, District - Ranchi, Jharkhand, over an area of 1.29 Acres (0.522 Ha.). (Proposal No. : SIA/JH/MIN/43956/2019)**

This is a Brick Earth Mining with an area of 0.522 Ha [Khata No.: 16, Plot no. 420]. The latitude and longitude of the project site is N23°30'32.28" to N23°30'35.03" and E85°31'11.60" to E85°31'15.07". The nearest railway station is Ramgarh Cantt at a distance of 12 km and the nearest airport is Ranchi at a distance of 29.29 km. Excavation will be carried out in barren land / waste land. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3395 sq.m or 0.8391 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

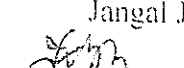
The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.37 Lakh has been indicated for Environment management.

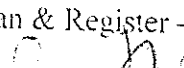
The DFO, Wildlife Ranchi vide memo no. 992, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.


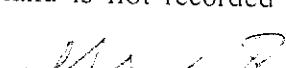
The DFO, Ranchi Division vide letter no. 4795, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1261, dated, 21-11-2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Ormanjhi vide letter no. 447(ii), dated 18.08.2017 for statutory clearance & vide letter no. 493(ii), dated -16.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.


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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 Brick Soil Mining For M/s J.K.B. Bricks, Proprietor: Sri Ram Das Sahu, at Mouza – Kurum, Thana -Ormanjhi, District - Ranchi, Jharkhand, over an area of 1.29 Acres (0.522 Ha.). be conditionally (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

12. **Brick Soil Mining For M/s M.B.C. Bricks, Proprietor: Miraj Ansari, at Mouza – Barwe, Thana – Ormanjhi, Thana No. – 25, District – Ranchi, Jharkhand, over an area of 1.98 Acres (0.80 Ha.). (Proposal No. : SIA/JH/MIN/45251/2019)**

This is a Brick Earth Mining with an area of 0.80 Ha [Khata No. 73. 17. Plot no. 149. 242. 243]. The latitude and longitude of the project site is N23°29'33.79" to N23°29'36.59" and E85°26'02.12" to E85°26'09.33". The nearest railway station is Tatisilwai at a distance of 13.70 km and the nearest airport is Ranchi at a distance of 20.87 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3600 sq.m or 0.89 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.82 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1024, dated 16.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4801, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO. Ranchi vide memo no. 1260, dated, 21.11.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO. Ormanjhi vide letter no. 395(ii), dated 27.07.2017 for statutory clearance & vide letter no. 495(ii), dated -16.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s M.B.C. Bricks, Proprietor: Miraj Ansari, at Mouza - Barwe, Thana - Ormanjhi, Thana No. - 25, District - Ranchi, Jharkhand, over an area of 1.98 Acres (0.80 Ha.).** be conditionally (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I.**

13. **Brick Soil Mining For M/s Nova Bricks, Proprietor: Jawed Akhtar, at Mouza - Lem, Thana - Sadar, Thana No. - 162, District - Ranchi, Jharkhand, over an area of 2.40 Acres (0.97 Ha.) (Proposal No. : SIA/JH/MIN/45168/2019)**

This is a Brick Earth Mining with an area of 0.97 Ha [Khata No.: 160, Plot no. 218(P)]. The latitude and longitude of the project site is N23°25'41.71" to N23°25'44.91" and E85°22'01.41" to E85°22'06.22". The nearest railway station is Tatisilwai at a distance of 8.65 km and the nearest airport is Ranchi at a distance of 13.24 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3600 sq.m or 0.89 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.75 Lakh has been indicated for Environment management.

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The DFO, Wildlife Ranchi vide memo no. 987, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4799, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1364, dated, 04.12.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Bargain vide letter no. 950(ii), dated 06.09.2017 for statutory clearance & vide letter no. 742(ii), dated -01.10.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining For M/s Nova Bricks, Proprietor: Jawed Akhtar, at Mouza - Lem, Thana - Sadar, Thana No. - 162, District - Ranchi, Jharkhand, over an area of 2.40 Acres (0.97 Ha.). be ~~conditionally~~ (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I

14. Brick Soil Mining For M/s RBC Bricks, Proprietor: Sri Sanjeet Prasad, at Mouza - Bundu, P.S. - Ormanjhi, District - Ranchi, Jharkhand, over an area of 1.89 Acres (0.76 Ha.).
(Proposal No. : SIA/JH/MIN/45161/2019)

This is a Brick Earth Mining with an area of 0.76 Ha [Khata No. 13, Plot no. 276 & 277]. The latitude and longitude of the project site is N23°29'48.00" to N23°29'51.76" and E85°22'22.24" to E85°22'26.04". The nearest railway station is Tatisilwai at a distance of 15.44 km and the nearest airport is Ranchi at a distance of 20.58 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 650 cum of top soil will be generated during the 5 years plan period @ 130 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3600 sq.m or 0.89 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000

4 th Year	1140	6.00.000
5 th Year	1140	6.00.000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.52 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1028, dated 16.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4803, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1273, dated, 21.11.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Ormanjhi vide letter no. 420(ii), dated 07.08.2017 for statutory clearance & vide letter no. 494(ii), dated -16.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining For M/s RBC Bricks, Proprietor: Sri Sanjeet Prasad, at Mouza - Bundu, P.S. - Ormanjhi, District - Ranchi, Jharkhand, over an area of 1.89 Acres (0.76 Ha.). be conditionally (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I

15. **Brick Soil Mining For M/s Naaj Bricks, Partner: Md. Afroj Ansari, at Mouza - Dubliya, Thana - Pithoria, Thana No. - 48, District - Ranchi, Jharkhand, over an area of 2.69 Acres (1.09 Ha.). (Proposal No. : SIA/JH/MIN/45138/2019)**

This is a Brick Earth Mining with an area of 1.09 Ha [Khata No. 236, Plot no. 1390]. The latitude and longitude of the project site is N23°27'12.28" to N23°27'17.13" and E85°22'39.48" to E85°22'43.75". The nearest railway station is Tatisilwai at a distance of 11.06 km and the nearest airport is Ranchi at a distance of 16.17 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3500 sq.m or 0.86 acres in the five year plan period.

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Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6.00.000
2 nd Year	1140	6.00.000
3 rd Year	1140	6.00.000
4 th Year	1140	6.00.000
5 th Year	1140	6.00.000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.76 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1023, dated 16.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4603, dated 02.11.2017 certified that the distance of project location from Reserved Forest / Protected Forest is 05 K.M

DMO, Ranchi vide memo no. 1263, dated, 21.11.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Ormanjhi vide letter no. 869(ii), dated -21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyan & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s Naaj Bricks, Partner: Md. Afroj Ansari, at Mouza - Dubliya, Thana - Pithoria, Thana No. - 48, District - Ranchi, Jharkhand, over an area of 2.69 Acres (1.09 Ha.).** be ~~conditionally (project site not mention in DSR)~~ recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**

16. **Brick Soil Mining For M/s JRB Bricks (Unit - I), Proprietor: Sri Johnson Runda, at Mouza - Santi, Thana - Ormanjhi, Thana No. - 07, District - Ranchi, Jharkhand, over an area of 1.30 Acres (0.53 Ha.). (Proposal No. : SIA/JH/MIN/45132/2019)**

This is a Brick Earth Mining with an area of 0.53 Ha [Khata No. 18, Plot no. 564 (P)]. The latitude and longitude of the project site is N23°29'53.92" to N23°29'56.50" and E85°22'51.53" to E85°22'55.20". The nearest railway station is Tatisilwai at a distance of 15.42 km and the nearest airport is Ranchi at a distance of 21.02 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3200 sq.m or 0.78 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.18 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 982, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4807 dated 17.11.2017 certified that the distance of project location from Reserved Forest / Protected Forest is 1600 m.

DMO, Ranchi vide memo no. 1265, dated, 21.11.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Ormanjhi vide letter no. 446(ii), dated 18.08.2017 for statutory clearance & vide letter no. 497(ii), dated 16.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s JRB Bricks (Unit - I), Proprietor: Sri Johnson Runda, at Mouza - Santi, Thana - Ormanjhi, Thana No. - 07, District - Ranchi, Jharkhand, over an area of 1.30 Acres (0.53 Ha.)** be conditionally ~~(project site not mention in DSR)~~ recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

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17. Brick Soil Mining For M/s SMB Bricks, Proprietor: Sri Shankar Sahu, at Mouza – Hochar, Thana – Kanke, Thana No. – 158, District – Ranchi, Jharkhand, over an area of 2.80 Acres (1.133 Ha) (Proposal No. : SIA/JH/MIN/45131/2019)

This is a Brick Earth Mining with an area of 1.133 Ha [Khata No.: 288, Plot no. 290,291,292,293 & 294]. The latitude and longitude of the project site is N23°27'46.57" to N23°27'52.45" and E85°21'16.10" to E85°21'20.98". The nearest railway station is Ranchi at a distance of 12.81 km and the nearest airport is Ranchi at a distance of 16.60 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 650 cum of top soil will be generated during the 5 years plan period @ 130 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3570 sq.m or 0.882 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 2.11 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1030, dated 16.09.19 the National Park. Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 3482, dated 26.07.2017 certified that the distance of project location from Reserved Forest / Protected Forest is 3800 m.

DMO, Ranchi vide memo no. 1133, dated, 20.10.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Kanke vide letter no. 878(ii), dated 21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatian & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining For M/s SMB Bricks, Proprietor: Sri Shankar Sahu, at Mouza – Hochar, Thana – Kanke, Thana No. – 158, District – Ranchi, Jharkhand, over an area of 2.80 Acres (1.133 Ha). be ~~conditionally (project site not mention in DSR)~~ recommended for ~~subject to submission of DSR from competent authority directly to SEIAA~~ consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I

18. Brick Soil Mining For M/s Sars Bricks, Proprietor: Sri Mahabir Kumar, at Mouza – Jirawar, P.O.- Kuchu, P.S. – Ormanjhi, District – Ranchi, Jharkhand, over an area of 2.58 Acres (1.04 Ha.). (Proposal No. : SIA/JH/MIN/45125/2019)

This is a Brick Earth Mining with an area of 1.04 Ha [Khata No. 104, Plot no. 321]. The latitude and longitude of the project site is N23°29'39.91" to N23°29'44.49" and E85°23'41.48" to E85°23'46.67". The nearest railway station is Tatisilwai at a distance of 14.47 km and the nearest airport is Ranchi at a distance of 21.03 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 650 cum of top soil will be generated during the 5 years plan period @ 130 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3440 sq.m or 0.84 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.81 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 985, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

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The DFO, Ranchi Division vide letter no. 4802, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1272, dated, 21.11.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Ormanjhi vide letter no. 419(ii), dated 07.08.2017 for statutory clearance & vide letter no. 500(ii), dated -16.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyan & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining For M/s Sars Bricks, Proprietor: Sri Mahabir Kumar, at Mouza - Jirawar, P.O.- Kuchu, P.S. - Ormanjhi, District - Ranchi, Jharkhand, over an area of 2.58 Acres (1.04 Ha.). be conditionally (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I

19. Brick Soil Mining For M/s Mina Bricks, Proprietor: Sri Raj Kumar Gupta, at Mouza - Santi, Thana - Ormanjhi, Thana No. - 07, District - Ranchi, Jharkhand, over an area of 1.97 Acres (0.797 Ha.). (Proposal No. : SIA/JH/MIN/45122/2019)

This is a Brick Earth Mining with an area of 0.797 Ha [Khata No.: 14, Plot no. 32, 33, 37 & 38]. The latitude and longitude of the project site is N23°30'25.98" to N23°30'30.21" and E85°22'41.86" to E85°22'46.27". The nearest railway station is Tatisilwai at a distance of 16.35 km and the nearest airport is Ranchi at a distance of 21.86 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3520 sq.m or 0.87 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000

Total	5700	30,00,000
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The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.43 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 995, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4797, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1368, dated, 04.12.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Ormanjhi vide letter no. 445(ii), dated 18.08.2017 for statutory clearance & vide letter no. 496(ii), dated -16.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s Mina Bricks, Proprietor: Sri Raj Kumar Gupta, at Mouza - Santi, Thana - Ormanjhi, Thana No. - 07, District - Ranchi, Jharkhand, over an area of 1.97 Acres (0.797 Ha.).** be ~~conditionally~~ (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I

20. **Brick Soil Mining For M/s J.K.B. Bricks, Proprietor: Sri Sanjay Kumar Gupta, at Mouza - Dubliya, Thana -Pithoria, Thana no. 48 District - Ranchi, Jharkhand, over an area of 1.80 Acres (0.73 Ha.).**
(Proposal No. : SIA/JH/MIN/45121/2019)

This is a Brick Earth Mining with an area of 0.73 Ha [Khata No.: 20, Plot no. 1007 & 1008]. The latitude and longitude of the project site is N23°27'48.58" to N23°27'52.30" and E85°22'32.05" to E85°22'36.73". The nearest railway station is Ramgarh Cantt at a distance of 12.10 km and the nearest airport is Ranchi at a distance of 17.23 km. Excavation will be carried out in barren land / waste land. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3500 sq.m or 0.86 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

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Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.37 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 992, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4795, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1261, dated, 21-11-2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Ormanjhi vide letter no. 447(ii), dated 18.08.2017 for statutory clearance & vide letter no. 493(ii), dated -16.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyon & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s J.K.B. Bricks, Proprietor: Sri Ram Das Sahu, at Mouza – Kurum, Thana -Ormanjhi, District - Ranchi, Jharkhand, over an area of 1.29 Acres (0.522 Ha.).** ~~be conditionally (project site not mention in DSR)~~ recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I.**

21. **Brick Soil Mining For M/s Roma Bricks, Proprietor: Abdul Kuddus Ansari., at Mouza – Chauhi, Thana – Pithoria, Thana No. – 36, District – Ranchi, Jharkhand, over an area of 2.90 Acres (1.174 Ha). (Proposal No. : SIA/JH/MIN/45110/2019)**

This is a Brick Earth Mining with an area of 1.174 Ha [Khata No. 01, Plot no. 459]. The latitude and longitude of the project site is N23°28'59.89" to N23°29'05.27" and E85°23'12.26" to E85°23'14.23". The nearest railway station is Ranchi at a distance of 15.89 km and the nearest airport is Ranchi at a distance of 19.68 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 650 cum of top soil will be generated during the 5 years plan period @ 130 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3550 sq.m or 0.877 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.89 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 996, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4621, dated 02.11.2017 certified that the distance of project location from Reserved Forest / Protected Forest is 2000 m.

DMO, Ranchi vide memo no. 1259, dated. 21.11.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Kanke vide letter no. 896(ii), dated 21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s Roma Bricks, Proprietor: Abdul Kuddus Ansari., at Mouza – Chauhi, Thana – Pithoria, Thana No. – 36, District – Ranchi, Jharkhand, over an area of 2.90 Acres (1.174 Ha).** be ~~conditionally (project site not mention in DSR)~~ recommended for subject to submission of ~~DSR from competent authority directly to SEIAA~~ consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I

22. Brick Soil Mining For M/s Nain Bricks, Proprietor: Md. Masud Ansari, at Mouza – Irba, Thana – Ormanjhi, Thana No. – 27, District – Ranchi, Jharkhand, over an area of 2.14 Acres (0.866 Ha). (Proposal No. : SIA/JH/MIN/45102/2019)

This is a Brick Earth Mining with an area of 0.866 Ha [Khata No. 44, 101, Plot no. 224, 225, 217, 218, 219, 220]. The latitude and longitude of the project site is N23°27'56.41" to N23°28'00.25" and E85°25'54.56" to E85°25'58.70". The nearest railway station is Tatisilwai at a distance of 10.73 km and the nearest airport is Ranchi at a distance of 20.0 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3560 sq.m or 0.88 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6.00.000
2 nd Year	1140	6.00.000
3 rd Year	1140	6.00.000
4 th Year	1140	6.00.000
5 th Year	1140	6.00.000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 2.00 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1063, dated 24.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4800, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1366, dated, 04.12.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Ormanjhi vide letter no. 514(ii), dated 25.09.2017 for statutory clearance & vide letter no. 520(ii), dated -24.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatian & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining For M/s Nain Bricks, Proprietor:

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Md. Masud Ansari, at Mouza – Irba, Thana – Ormanjhi, Thana No. – 27, District – Ranchi, Jharkhand, over an area of 2.14 Acres (0.866 Ha).be conditionally (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I

23. Brick Soil Mining For M/s Guru Bricks, Proprietor: Arun Singh, at Mouza – Murum, Thana – Kanke, Thana No. – 50, District – Ranchi, Jharkhand, over an area of 1.54 Acres (0.62 Ha.)
(Proposal No. : SIA/JH/MIN/43099/2019)

This is a Brick Earth Mining with an area of 0.62 Ha [Khata No. 58, Plot no. 784]. The latitude and longitude of the project site is N23°28'12.05" to N23°28'18.08" and E85°20'52.94" to E85°20'55.84". The nearest railway station is Ranchi at a distance of 13.60 km and the nearest airport is Ranchi at a distance of 17.36 km. Excavation will be carried out in barren land / waste land. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3100 sq.m or 0.766 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.98 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1061, dated 24.09.19 the National Park, Bio-Diversity. & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4611, dated 02.11.2017 certified that the distance of project location from Reserved Forest/ Protected Forest is 2400 m.

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DMO, Ranchi vide memo no. 1262, dated, 21-11-2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Kanke vide letter no. 873(ii), dated -21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s Guru Bricks, Proprietor: Arun Singh, at Mouza - Murum, Thana - Kanke, Thana No. - 50, District - Ranchi, Jharkhand, over an area of 1.54 Acres (0.62 Ha.)** be ~~conditionally (project site not mention in DSR)~~ recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

24. **Brick Soil Mining For M/s Hind Bricks, Proprietor: Syed Emamul Huque, at Mouza - Haldama, Thana - Pithoria, Thana No. - 43, District - Ranchi, Jharkhand, over an area of 2.49 Acres (1.008 Ha.) (Proposal No. : SIA/JH/MIN/45104/2019)**

This is a Brick Earth Mining with an area of 1.008 Ha [Khata No.: 32, Plot no. 560]. The latitude and longitude of the project site is N23°27'52.96" to N23°27'57.45" and E85°25'28.73" to E85°25'37.37". The nearest railway station is Tatisilwai at a distance of 10.6 km and the nearest airport is Ranchi at a distance of 19.50 km. Excavation will be carried out in field / waste land. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3530 sq.m or 0.872 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 2.13 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 983, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4590, dated 02.11.2017 certified that the distance of project location from Reserved Forest / Protected Forest is 900 m.

DMO, Ranchi vide memo no. 1264, dated, 21-11-2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Kanke vide letter no. 863(ii), dated -21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Gramsabha held on 26.08.2017

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 Brick Soil Mining For M/s Hind Bricks, Proprietor: Syed Emamul Huque, at Mouza - Haldama, Thana - Pithoria, Thana No. - 43, District - Ranchi, Jharkhand, over an area of 2.49 Acres (1.008 Ha.) be ~~conditionally (project site not mention in DSR)~~ recommended for ~~subject to submission of DSR from competent authority directly to SEIAA~~ consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

25. Brick Soil Mining For M/s Azad Bricks (A.B.C.), Proprietor: Abdul Rub Ansari, at Mouza - Oyna, Thana - Pithoria, Thana No. - 46, District - Ranchi, Jharkhand, over an area of 1.34 Acres (0.542 Ha.)

(Proposal No. : SIA/JH/MIN/45083/2019)

This is a Brick Earth Mining with an area of 0.542 Ha [Khata No. 109, Plot no. 663 & 664]. The latitude and longitude of the project site is N23°27'15.40" to N23°27'19.05" and E85°24'50.70" to E85°24'53.07". The nearest railway station is Tatisilwai at a distance of 9.72 km and the nearest airport is Ranchi at a distance of 17.95 km. Excavation will be carried out in barren land / waste land. Approx. 650 cum of top soil will be generated during the 5 years plan period @ 130 cum every year. 90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1104 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 5.81.053 numbers of bricks every year. Thus, a total of about 5520 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3280 sq.m or 0.811 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1104	581053
2 nd Year	1104	581053
3 rd Year	1104	581053

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4 th Year	1104	581053
5 th Year	1104	581053
Total	5520	2905265

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.29 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1059, dated 24.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4625, dated 02.11.2017 certified that the distance of project location from Reserved Forest / Protected Forest is 2100 m.

DMO, Ranchi vide memo no. 1277, dated, 21-11-2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Kanke vide letter no. 877(ii), dated -21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyon & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s Azad Bricks (A.B.C.), Proprietor: Abdul Rub Ansari, at Mouza - Oyna, Thana - Pithoria, Thana No. - 46, District - Ranchi, Jharkhand, over an area of 1.34 Acres (0.542 Ha.)** be ~~conditionally (project site not mention in DSR)~~ recommended for subject to submission of ~~DSR from competent authority directly to SEIAA~~ consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

26. **Brick Soil Mining For M/s JRB Bricks (Unit - II), Proprietor: Sri Johnson Runda, at Mouza - Dubliya, Thana - Pithoria, Thana No. - 48, District - Ranchi, Jharkhand, over an area of 1.82 Acres (0.737 Ha.). (Proposal No. : SIA/JH/MIN/45081/2019)**

This is a Brick Earth Mining with an area of 0.737 Ha [Khata No. 89, Plot no. 1273]. The latitude and longitude of the project site is N23°27'26.63" to N23°27'30.27" and E85°22'25.38" to E85°22'28.90". The nearest railway station is Ranchi at a distance of 12.61 km and the nearest airport is Ranchi at a distance of 16.44 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3510 sq.m or 0.67 acres in the five year plan period

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.46 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 990, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4619, dated 02.11.2017 certified that the distance of project location from Reserved Forest / Protected Forest is 4400 m.

DMO, Ranchi vide memo no. 1266, dated, 21.11.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Kanke vide letter no. 871(ii), dated 21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s JRB Bricks (Unit - II), Proprietor: Sri Johnson Runda, at Mouza - Dubliya, Thana - Pithoria, Thana No. - 48, District - Ranchi, Jharkhand, over an area of 1.82 Acres (0.737 Ha.)** be **conditionally** ~~(project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA~~ consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

27. **Brick Soil Mining For M/s Johar Bricks, Proprietor: Mahmad Ansari, at Mouza - Lem, Thana - Sadar, Thana No. - 162, District - Ranchi, Jharkhand, over an area of 2.38 Acres (0.963 Ha.). (Proposal No. : SIA/JH/MIN/45073/2019)**

This is a Brick Earth Mining with an area of 0.963 Ha [Khata No. 22 & 10, Plot no. 789.793,790 & 791.792]. The latitude and longitude of the project site is N23°25'55.58" to N23°25'59.56" and E85°22'40.28" to E85°22'46.12". The nearest railway station is Namkum at a distance of 9.06 km and the nearest airport is Ranchi at a distance of 14.08 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

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90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3560 sq.m or 0.88 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.91 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 986, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4813, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1468, dated, 19.12.2017 certified that no other lease is exists within 500 m radius from proposed project site.

LOI of DMO letter no. 1468 date 01.10.19

The CO, Bargain vide letter no. 951(ii), dated 06.09.2017 for statutory clearance & vide letter no. 74(ii), dated 01.10.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register –II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s Johar Bricks, Proprietor: Mahmad Ansari, at Mouza – Lem, Thana – Sadar, Thana No. – 162, District – Ranchi, Jharkhand, over an area of 2.38 Acres (0.963 Ha.).** be ~~conditionally (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA~~ consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I.**

28. **Brick Soil Mining For M/s Karan Bricks, Proprietor: Sri Dharmbir Singh, at Mouza – Chari, Thana – Pithoria, Thana No. – 42, District – Ranchi, Jharkhand, over an area of 1.77 Acres (0.716 Ha.). (Proposal No. : SIA/JH/MIN/45031/2019)**

This is a Brick Earth Mining with an area of 0.716 Ha [Khata No. 19, Plot no. 165]. The latitude and longitude of the project site is N23°28'27.60" to N23°28'31.29" and E85°24'40.70" to E85°24'45.66". The nearest railway station is Ranchi at a distance of 11.94 km and the nearest airport is Ranchi at a distance of 19.78 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3560 sq.m or 0.88 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.43 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1026, dated 16.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4815, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1267, dated, 21.11.2017 certified that no other lease exists within 500 m radius from proposed project site.

LOI from DMO no. 1141 dated 20.10.2017

The CO, Kanke vide letter no. 870(ii), dated 21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

8/11/19

[Signature]

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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 **Brick Soil Mining For M/s Karan Bricks, Proprietor: Sri Dharmbir Singh, at Mouza – Chari, Thana – Pithoria, Thana No. – 42, District – Ranchi, Jharkhand, over an area of 1.77 Acres (0.716 Ha.)** be ~~conditionally (project site not mention in DSR)~~ recommended for ~~subject to submission of DSR from competent authority directly to SEIAA~~ consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

29. **Brick Soil Mining For M/s Fine Bricks, Proprietor: Mumtaz Ansari, at Mouza – Ulatu, P.S. – Pithoria, Thana No. – 37, District – Ranchi, Jharkhand, over an area of 2.06 Acres (0.83 Ha.)**
(Proposal No. : SIA/JH/MIN/43951/2019)

This is a Brick Earth Mining with an area of 0.83 Ha [Khata No.: 04, Plot no. 573]. The latitude and longitude of the project site is N23°28'45.24" to N23°28'48.60" and E85°23'06.92" to E85°23'17.12". The nearest railway station is Tatisilwai at a distance of 13.10 km and the nearest airport is Ranchi at a distance of 19.20 km. Excavation will be carried out in barren land / waste land. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3663 sq.m or 0.914 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 2.02 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1022, dated 16.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4616, dated 02.11.2017 certified that the distance of project location from Reserved Forest / Protected Forest is 2600 m.

DMO, Ranchi vide memo no. 1270, dated. 21-11-2017 certified that no other lease is exists within 500 m radius from proposed project site.

LOI from DMO no. 746 dated 05.08.17

The CO, Kanke vide letter no. 875(ii), dated -21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Gram sabha was held on 26.09.19.

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 **Brick Soil Mining For M/s Fine Bricks, Proprietor: Mumtaz Ansari, at Mouza - Ulatu, P.S. - Pithoria, Thana No. - 37, District - Ranchi, Jharkhand, over an area of 2.06 Acres (0.83 Ha.)** be ~~conditionally~~ (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

30. **Brick Soil Mining For M/s Amma Bricks, Proprietor: Ayaj Khan, at Mouza - Ulatu, P.O.- Kumhariya, P.S.- Pithoriya, District - Ranchi, Jharkhand, over an area of 1.28 Acres (0.517 Ha.) (Proposal No. : SIA/JH/MIN/43940/2019)**

This proposal is for a new Brick Earth Mining with an area of 0.517 Ha [Khata No. 94, Plot no. 760, 761]. The latitude and longitude of the project site is N23°29'17.03" to N23°29'20.04" and E85°23'31.04" to E85°23'35.00". The nearest railway station is Tatisilwai at a distance of 13.83 km and the nearest airport is Ranchi at a distance of 20.24 km. Excavation will be carried out in barren land / waste land. Approx. 665 cum of top soil will be generated during the 5 years plan period @ 133 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 bricks every year. Thus, a total of about 5700 cum quantity of brick earth will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3470 sq.m or 0.860 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	600000
2 nd Year	1140	600000
3 rd Year	1140	600000
4 th Year	1140	600000

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5 th Year	1140	600000
Total	5700	3000000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 1.26 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 997, dated 06.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4811, dated 15.10.2019 certified that the distance of project location from Reserved Forest / Protected Forest is more than 250m.

DMO, Ranchi vide memo no. 1258, dated, 21-11-2017 certified that no other lease is existing within 500 m radius from proposed project site.

The CO, Kanke vide letter no. 865(ii), dated -21.09.2019 has mentioned that the class of land is not recorded as Jangal Jhari in Khatiyani & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Brick Soil Mining For M/s Amma Bricks, Proprietor: Ayaj Khan, at Mouza - Ulatu, P.O.- Kumhariya, P.S.- Pithoriya, District - Ranchi, Jharkhand, over an area of 1.28 Acres (0.517 Ha.)** be ~~conditionally (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA~~ consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

31. **Brick Soil Mining For M/s Puja Bricks, Proprietor: Sri Anil Kumar Keshri, at Mouza - Pithoriya, P.S. - Pithoriya, Thana No. - 09, District - Ranchi, Jharkhand, over an area of 2.35 Acres (0.951 Ha.). (Proposal No. : SIA/JH/MIN/44645/2019)**

This is a Brick Earth Mining with an area of 0.915 Ha [Khata No.: 135, 281, 282, 259, Plot no. 403, 404, 405, 406, 407, 408, 409]. The latitude and longitude of the project site is N23°31'13.06" to N23°31'18.10" and E85°17'33.75" to E85°17'37.08". The nearest railway station is Bhurkunda at a distance of 15.09 km and the nearest airport is Ranchi at a distance of 22.84 km. Excavation will be carried out in field otherwise barren but suitable for agriculture purpose. Approx. 650 cum of top soil will be generated during the 5 years plan period @ 130 cum every year.

90% of geological reserve is considered mineable due to blockages in slopes / benches and other losses. A production plan of Sub Soil is 1140 cum / year has been envisaged for the brick earth which will be sufficient for manufacturing 6,00,000 numbers of bricks every year. Thus, a total of about 5700 cum quantity of brick earth Sub Soil will be excavated during the plan period of 5 years. This amounts to a broken surface area of 3250 sq.m or 0.803 acres in the five year plan period.

Year-wise Production of brick earth as per PFR for five years is as follows

Year	Quantity of Sub Soil (m ³)	Nos of Bricks Proposed
1 st Year	1140	6,00,000
2 nd Year	1140	6,00,000
3 rd Year	1140	6,00,000
4 th Year	1140	6,00,000
5 th Year	1140	6,00,000
Total	5700	30,00,000

The indicated project cost is Rs 6.00 Lakh and a provision of Rs 2.04 Lakh has been indicated for Environment management.

The DFO, Wildlife Ranchi vide memo no. 1064, dated 24.09.19 the National Park, Bio-Diversity, & Sanctuary is not within 10 km and ESZ is also not within 10 km from proposed project site.

The DFO, Ranchi Division vide letter no. 4798, dated 17.11.2017 certified that the distance of project location from Reserved Forest / Protected Forest is 325m.

DMO, Ranchi vide memo no. 1480, dated, 20.12.2017 certified that no other lease exists within 500 m radius from proposed project site.

The CO, Kanke vide letter no. 868(ii), dated -21.09.2019 has mentioned the class of land is not recorded as Jangal Jhari in Khatian & Register -II.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining For M/s Puja Bricks, Proprietor: Sri Anil Kumar Keshri, at Mouza - Pithoriya, P.S. - Pithoriya, Thana No. - 09, District - Ranchi, Jharkhand, over an area of 2.35 Acres (0.951 Ha.). be ~~conditionally~~ (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I

32. **Kurkutta Stone Deposit of M/s Bhole Shankar Stone Works (Partner: Subhash Kumar Verma & Others), Mauza- Kurkutta, Thana- Giddi, District- Hazaribagh, Jharkhand. (0.49 Ha). (Proposal No. : SIA/JH /MIN/45227/2019)**

This is a Stone Mining Project with an area of 0.49 Ha [Khata no- 35, Plot No. 198 & 199]. The latitude and longitude of the project site is 23°42'30.79"N to 23°42'27.83"N and Longitude 85°20'45.62"E to 85°20'49.28"E. The nearest railway station is Patraru Railway station, approx. 6.5 km toward SW direction and nearest airport is Ranchi Airport, approx. 43.5 km in South Direction. Total water requirement is 4.5 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 175707.63 Tonnes

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

Year	Production of stone (Tonnes)
1 st	17,344.53
2 nd	17,344.53
3 rd	17,344.53
4 th	17,344.53
5 th	17,344.53
Total	86,722.65

The daily production is 57.81 tonne.

The indicated project cost is Rs 12 Lakh and a provision of Rs 5.0 Lakh has been indicated for Environment management.

DFO, wildlife, Hazaribag vide letter no. 1675, dated 06.09.19 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

DFO, Ramgarh vide letter no. 1965, dated 03.08.2018 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

The CO, Dadi (Hazaribag) vide letter no. 633, dated 28.07.18 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Hazaribag vide memo no. 977/M, dated 10.10.2019 certified that total mining in the area is less than 5 ha in the radius of 500 m.

PP was not present & hence deferred for next meetings.
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 Kurkutta Stone Deposit of M/s Bhole Shankar Stone Works (Partner: Subhash Kumar Verma & Others), Mauza- Kurkutta, Thana- Giddi, District- Hazaribagh, Jharkhand. (0.49 Ha). be recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

33. Sulidanga Stone Mine of M/S NJP Stone Works at Village- Sulidanga, P.O + P.S- Hiranpur, Dist-Pakur Jharkhand. (2.53 Ha)

This is a Stone Mining Project with an area of 2.53 Ha [Plot No. -73P, 74, 75, 76/P, 80/303]. The latitude and longitude of the project site is 24°41'42.61"N To 24°41'36.44"N and 87°45'14.60"E To 87°45'6.91"E. The nearest railway station is Tilbhita Railway Station 9.25 Km East and nearest airport is Birsa Munda Airport, Ranchi, 292 km SW. Total water requirement is 6.55 KLD (Dust Suppression : 3.77 KLD, Afforestation / Green belt : 0.80 KLD, Drinking / Domestic : 1.98 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in

mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve = 779625 cum

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

1 st Year	:	194400 MT
2 nd Year	:	185700.6 MT
3 rd Year	:	194302.8 MT
4 th Year	:	195129 MT
5 th Year	:	194594.4 MT

The daily production as per Form-I is 650 max. TPD.

The indicated project cost is Rs 32.83Lakh, a provision of Rs 7.30 Lakh has been indicated for Environment management and CER is Rs. 3.61 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1446, dated 26.07.19 certified that there is no Wildlife Sanctuary, Bio-Diversity & Sanctuary located within 10km from project site and, proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 808, dated 18.07.19 certified that the distance of notified forest is 1020 m from proposed project site and no National Park located within 10km from project site.

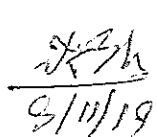
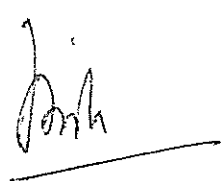
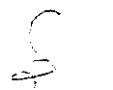



The CO, Hiranpurvide letter no. 369/R, dated 20.07.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Pakurvide memo no. 1776, dated 14.10.19 certified that altogether total mining in the area is 6.25 Acre (2.53Ha) in the radius of 500 m.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Sulidanga Stone Mine of M/S NJP Stone Works at Village- Sulidanga, P.O + P.S-Hiranpur, Dist-Pakur Jharkhand. (2.53 Ha)** . be recommended for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II.**

The meeting concluded with thanks to all present.

 9/11/19     

B.K. Tewary
(Dr. B.K. Tewary) 07/11/2019
Member

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

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

M.S. Bhagwat
(M.S. Bhagwat)
Member

Om Prakash
(Om Prakash)
Member Secretary

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

S.P. Srivastava
(S.P. Srivastava) 11/11/19
Member

R.V. Singh
(R.V. Singh)
Member

U.P. Singh
(U.P. Singh) 07/11/2019
Member

K.P. Bhawsinka
(K.P. Bhawsinka) 8.11.19
Chairman

This copy of the minutes, as put by MS, SEAR
duly signed by all members at this
time is now being signed keeping in view the
last date of present SEAR ending is
today.

The amount mentioned against
ecological damage is only a
provision figure, as mentioned
in RER project under section 5 of
first day.

As has been communicated earlier
to SEIAA, it was difficult for
me to sign on cut, erroneous
from the meeting & this forced
crisis & presented facts details not
only in MS, SEAR & member endorsing
the minutes 11/11/19

K.P. Bhawsinka
(Chairman, SEAR)
8.11.19

Annexure VIII

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

A. Standard Conditions :

1. Examine baseline environmental quality along with projected incremental load due to the project.
2. Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
3. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project.
4. Submit the details of the trees to be felled for the project.
5. Submit the present land use and permission required for any conversion such as forest, agriculture etc.
6. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of E (P) Act.
7. Ground water classification as per the Central Ground Water Authority.
8. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
9. Rain water harvesting proposals should be made with due safeguards for ground water quality Maximize recycling of water and utilization of rain water. Examine details.
10. Examine soil characteristics and depth of ground water table for rainwater harvesting.
11. Examine details of solid waste generation treatment and its disposal.
12. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
13. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
14. Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
15. A detailed traffic and transportation study should be made for existing and projected gatherings in different time & period.
16. Examine the details of transport of materials for construction which should include source and availability.

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17. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
18. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
19. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
20. The cost of the Project (capital cost and recurring cost) the damage cost of already opened land as well as the cost towards implementation of EMP should be clearly spelt out.
21. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".

B. Specific Conditions :

1. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
2. Examine the nala / river flowing on northern side of both the sites and management plan to maintain the flow of ecology of the system.
3. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority.
4. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
5. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
6. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
7. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
8. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
9. 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.



Annexure - I

A. Specific Conditions

- i. The environmental clearance is subject to grant / renewal of mining permit by the Department of Mines, Government of Jharkhand to PP Latest Minor Mineral Concession Rules of Govt. of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
- ii. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
- iii. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals / Brick Earth Mining.
- iv. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs / is found in the Project area). No damage is to be done to fauna if found in ML area (as mentioned in various schedules). In case found they should be given protection, collected alive with the help of the expert and transferred them or handing over them to the concerned authorities.
- v. The activity associated with borrowing / excavation of 'brick earth' and 'ordinary earth' for purpose of brick manufacturing, construction of roads, embankments etc. shall not involve blasting.
- vi. The borrowing / excavation activity shall be restricted to a maximum depth of 2 m below general ground level at the site. However – excavation shall not intercept with ground water level at site.
- vii. The borrowing / excavation activity shall not alter the natural drainage pattern of the area.
- viii. The borrowing / excavated pit shall be restored by the project proponent for useful purpose (s).
- ix. Appropriate fencing all around the borrowed / excavated pit shall be made to prevent any mishap.
- x. Measures shall be taken to prevent dust emission by covering of borrowed / excavated earth during transportation.
- xi. Safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing / excavation of earth.
- xii. Workers / labours shall be provided with facilities for drinking water and sanitation.
- xiii. A considerable space from mine pit shall be left from the boundary of adjoining field, having, minimum width of 5M.
- xiv. A minimum distance of 15 m from any civil structure shall be kept from the periphery of any excavation area.
- xv. The project proponent shall ensure that no natural watercourse and / or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for

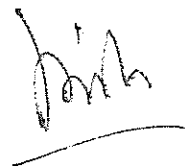
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conservation and protection of the first order and the second order streams, if any emanating / passing through the mine lease area during the course of mining operation.

- xvi. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- xvii. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
- xviii. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- xix. The project proponent should implement suitable conservation measures to augment ground water resources in the area as per guidelines of Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
- xx. The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
- xxi. Suitable rainwater harvesting scheme shall be planned and implemented as per guidelines of Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
- xxii. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.
- xxiii. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
- xxiv. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- xxv. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
- xxvi. Provision shall be made for the housing of labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- xxvii. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.



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- xxviii. A final mine closure scheme plan of mine pit shall be submitted to concerned DMO in advance of final mine closure for approval.
- xxix. The excavated earth – by such Brick mining pit owner – shall be supplied only to owners of manufacturing of bricks –having “Consent to Operate” under the provision of section 25 and 26 of The water (prevention and control of pollution) Act, 1974 and under section 21 of The Air (prevention and control of pollution) Act, 1981.
- xxx. All haul roads connection to mining pit head to concerned Brick kilns – shall have muram / Brick paved road to avoid fugitive emission during transportation activities. In addition to this there shall be tree plantation in both side along the haul road.
- xxxi. Prime agricultural land shall not be used for earth mining – until and unless – permission of conversion of land has been obtained by component authority.

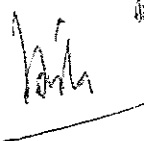
B. General conditions

- i. No change in mining methodology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
- ii. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- iii. The Project proponent shall make internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
- iv. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
- v. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
- vi. 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.
- vii. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- viii. Dispensary facilities for First Aid shall be provided at site.
- ix. 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).
- x. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should

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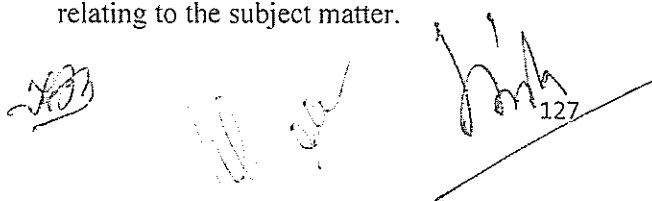
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extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.

- xi. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi its concerned Regional Office and to SEIAA.
- xii. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO₂ ,NO_x (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
- xiii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
- xiv. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
- xv. All statutory clearances shall be obtained before start of mining operations.



C. Other points

- i. 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.
- ii. 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.
- iii. 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.
- iv. 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.



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- v. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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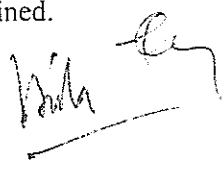
Annexure -II

A. Specific Conditions


- i. 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.
- ii. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance.
- iii. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / National Green Tribunal / MOEF Guidelines applicable to Minor Minerals.
- iv. 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.
- v. 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.
- vi. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
- vii. 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.
- viii. 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.
- ix. 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.
- x. 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.

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- xi. 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.
- xii. 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.
- xiii. 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.
- xiv. 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.
- xv. 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.
- xvi. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
- xvii. 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.
- xviii. 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.
- xix. Drilling shall either be operated with the dust extractors or equipped with water injection system.
- xx. 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.
- xxi. 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.



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- xxii. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
- xxiii. 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.
- xxiv. Proper Safety measures as per statutory requirement shall be implemented around the mined out Pit prior to closure of site.
- xxv. 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.
- xxvi. 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.
- xxvii. The Project Proponent shall submit six monthly report on the expenditure incurred on environmental management plan submitted by them.
- xxviii. 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.
- xxix. Approved devices for dust suppression shall be installed.

B. General conditions

- i. 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.
- ii. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- iii. 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.
- iv. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
- v. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
- vi. 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.
- vii. 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.

- viii. 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.
- ix. Dispensary facilities for First Aid shall be provided at site.
- x. 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.
- xi. 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.
- xii. 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.
- xiii. 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.
- xiv. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO₂ ,NO_x (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
- xv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
- xvi. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently .shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
- xvii. All statutory clearances shall be obtained before start of mining operations.

C. Other points

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- i. 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.
- ii. 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.
- iii. 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.
- iv. 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.
- v. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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Annexure III

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

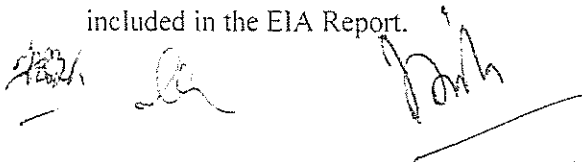
other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

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

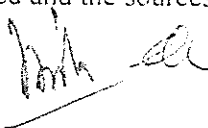
Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.

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.

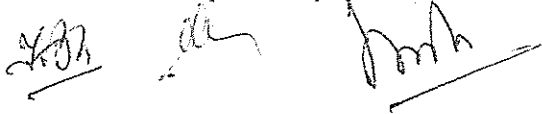
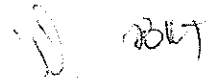
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34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the 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.

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- 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 and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
45. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III 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

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A. Specific Conditions

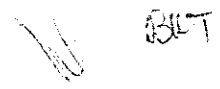
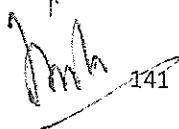

- i. The Environmental clearance is subject to grant of Mining Lease and will be co-terminus with the mining lease period.
- ii. As per EIA notification, 2006 Gram Sabha is a major component of EC for this category of project. In all these projects Gram Sabha report has not been submitted. The EC of these cases is being recommended subject to **submission of the Gram Sabha consent.**
- iii. The **mining work** will be open-cast and only **manual method.**
- iv. The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed. Also PP shall ensure that stipulations mentioned in MoEF OM No.- J-13012/12/2013-IA-II(I), dated- 24th December, 2013 and SEIAA, Jharkhand guideline dated 07.05.2013 are adhered to.
- v. For the green belt development in the mining area / transport road sides / other land area saplings available in the forest nursery / private nursery should also be considered for the mentioned purpose instead of the Trees / Plants mentioned in the PFR / Presentation copies of the proposed mine.
- vi. No sand mining activities will be carried out in upstream or downstream within 500 m of railways, road, bridge, water intake, wires & notified aquarium or breeding places.
- vii. Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc and shall submit report to SEIAA, JSPCB and DMO after every monsoon i.e. by end of November (30th) of that year. Also after receding of flood / water (after monsoon) a study has to be conducted in mining lease area and list of flora & fauna is to be prepared and submit report to SEIAA, JSPCB and DMO.
- viii. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs / is found in the Project area).
- ix. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
- x. The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left un-worked (Non mining area), distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season. Due consideration will be given to points raised in Supreme Court judgement and SEIAA guidelines.
- xi. The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected.
- xii. The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety

and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.

- xiii. Solid waste material viz., gutkha pouches, plastic bags, glasses etc. to be generated during project activity will be separately stored in bins and managed as per Solid Waste Management rules.
- xiv. Natural /customary paths used by villagers should not be obstructed at any time by the activities proposed under the project. Transportation of sand is to be carried out with consent of Villagers and Trucks are to be covered with Tarpaulin.
- xv. Local flora may be planted in the Core Zone of the Mining Lease area.
- xvi. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xvii. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
- xviii. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
- xix. 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.
- xx. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
- xxi. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
- xxii. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- xxiii. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
- xxiv. 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.
- xxv. 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
- xxvi. At least 1.5 meter from the river bed sand should be kept intact and mining can be done above this cushion of sand considering the geological condition of Chhotanagpur plateau.

B. General conditions:

As per the latest guidelines of MoEF & CC regarding Sustainable Sand Mining Management Guidelines 2016 –



- i. EC is subject to having valid lease and all statutory clearance as applicable.
- ii. Monitoring Committee including Local Panchayat to check on traffic due to transportation and submit an annual report on the same.
- iii. To maintain safety and stability of Riverbanks i.e. 3 meter or 10% of the width of the River whichever is more will be left intact as no mining zone.
- iv. Ultimate working depth shall be up to 3.0 m from Riverbed level and not less than one meter from the water level of the River channel whichever is reached earlier.
- v. The directions given by the Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLP(C) Nos.19628-19629 of 2009] and order dated 05.08.2013 of the Hon'ble National Green Tribunal in application No.171/2013 may be strictly followed.
- vi. All the provisions made and restrictions imposed as covered in the Minor Mineral Rule, shall be complied with, particularly regarding Environment Management Practices and its fund management and Payment of compensation to the land owners.
- vii. District level Survey Report should be prepared and area suitable for mining and area prohibited for mining be identified.
- viii. No River sand mining be allowed in rainy season.
- ix. To submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity/ production levels shall be decreased / stopped accordingly till the replenishment is completed.
- x. In River flood plain mining a buffer of 3 meter to be left from the River bank for mining.
- xi. In mining from agricultural field a buffer of 3 meter to be left from the adjacent field.
- xii. Mining shall be done in layers of 1 meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
- xiii. No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.
- xiv. No blasting shall be resorted to in River mining and without permission at any other place.
- xv. Depending upon the location, thickness of sand, deposition, agricultural land/Riverbed, the method of mining may be manual, semi-mechanized or mechanized; however, manual method of mining shall be preferred over any other method.
- xvi. Mining should be done only in area / stretch identified in the District Level Survey Report suitable for mining and so certified by the Sub- Divisional Level Committee after site visit.
- xvii. Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.
- xviii. The top soil in case of surface land mining shall be stored temporarily in an earmarked site and concurrently used for land reclamation.

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- xix. The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.
- xx. For each mining lease site the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.
- xxi. The State / District Level Environment Committee should use technology like Bar Coding, Information and Communications Technology (ICT), Web based and ICT enabled services, mobile SMS App etc. to account for weight of mineral being taken out of the lease area and the number of trucks moving out with the mineral.
- xxii. There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.
- xxiii. Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit.
- xxiv. Restricted working hours Sand mining operation has to be carried out between sun rise to sun set.
- xxv. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly.
- xxvi. Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.
- xxvii. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and used.
- xxviii. The mining operations are to be done in a systematic manner so that the operations shall create a major visual impact on the site.
- xxix. Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder should plant and maintain for lease period at least 50 gabion plantation in area near lease and road connecting lease area.
- xxx. No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made thereunder.
- xxxi. Protection of turtle and bird habitats shall be ensured.
- xxxii. No felling of tree near quarry shall be allowed. For mining lease within 10 km of the National Park / Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wild Life (NBWL) have to be obtained as per the Hon'ble Supreme Court order in I.A. No. 460 of 2004.
- xxxiii. Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.

- xxxiv. Removal, stacking and utilization of top soil in mining are should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.
- xxxv. The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures.
- xxxvi. Use of oversize material to control erosion and movement of sediments.
- xxxvii. No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope.
- xxxviii. No extraction of sand in land slide prone areas shall be carried out.
- xxxix. Controlled clearance of riparian vegetation to be undertaken
- xl. Site clearance and tidiness is very much needed to have less visual impact of mining.
- xli. Dumping of waste shall be done in earmarked places as approved in Mining Plan.
- xlii. Rubbish burial shall not be done in the Rivers.
- xlili. The EC holder shall take all possible precautions for the protection of environment and control of pollution.
- xliv. Effluent discharge should be kept to the minimum and it should meet the standards prescribed.
- xlv. Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical, and archaeological importance.
- xlvi. Vehicles used for transportation of sand are to be permitted only with of fitness and PUCCertificates.
- xlvii. Junction at take-off point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.
- xlviii. Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- xlix. No stacking allowed on road side along National Highways.
- l. The Project Proponent shall undertake phased restoration, reclamation and rehabilitation of land affected by mining and completes this work before abandonment of mine.
- li. Site specific plan with eco-restoration should be in place and implemented.
- lii. Health and safety of workers should be taken care of.
- liii. The Project Proponent shall make arrangement for drinking water, first aid facility (along with species specific anti-venom provisioning) in case of emergency for the workers.
- liv. The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.

- iv. Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained: also. Occupational health check ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for labour for ensuring good occupational environmental for mine workers would also be adopted.

C. Other points

- i. 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.
- ii. The Environmental Clearance accorded shall be valid for the period of lease of the mine, the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.
- iii. 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.
- iv. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
- v. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010

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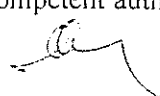
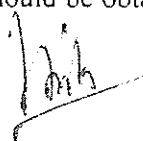


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PART A – GENERAL CONDITIONS

I. Pre- Construction Phase

- i. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.
- ii. Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.
- iii. Adequate safety measures shall be adopted for the construction workers.
- iv. All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.
- v. Fencing of the project boundary before start of construction activities.
- vi. Use of energy efficient construction materials shall be ensured to achieve the desired thermal comfort.
- vii. Use of fly ash based bricks/blocks/tiles/products shall be explored to the maximum extent possible.
- viii. Lay out of proposed buildings and roads within premises etc. shall be made in such a way that it shall cause minimum disturbance to existing flora and fauna. Appropriate green belt shall developed to compensate the habitat loss of tree cutting (if any) from competent authority as per prevailing Act/Rules. The exotic species existing within the existing premises, if any, shall be protected. The greening programme shall include plantation of both exotic and indigenous species.
- ix. Dedicated pedestrian paths shall be provided along the proposed Buildings. Appropriate access shall be provided for physically challenged people in the Pedestrian Paths.
- x. The design of service roads and the entry and exit from the buildings shall conform to the norms & standards prescribed by the State Public Works Department.
- xi. The road system shall have the road cross sections for general traffic, exclusive ways for public mass transport (bus) system, pedestrian paths and ways, utility corridors and green strip.
- xii. Topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site. Balance top soil should be disposed at in planned manner for use elsewhere adequate erosion and sediment control measures to be adopted before ensuing construction activities.
- xiii. Prior permission should be obtained from the competent authority for demolition of the



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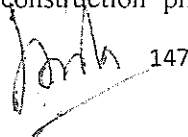
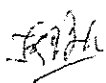
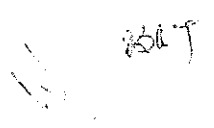
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existing structure, if any. Waste recycling plans including top soil should be developed prior to beginning of demolition and construction activity. The plans should identify wastes to be generated and designate handling, recycling and disposal method to be followed.

- xiv. Disposal of muck including excavated material during construction phase should not create any adverse effects in the neighbourhood and the same shall be disposed of taking the necessary precautions for general safety and health aspects.
- xv. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which should be in the vernacular language, informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority, Jharkhand and the same matter also be sent to Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Ranchi.
- xvi. Risk assessment study along with Disaster Management Plan (DMP) shall be prepared. The mitigative measures for disaster prevention and control shall be prepared and get approval from competent authority. All other statutory clearances/licenses/permissions from concerned State Governments Departments, Boards and Corporations shall be obtained for directions issued by Central Government/State Government, Central Pollution Control Board/Jharkhand State Pollution Control Board.
- xvii. Baseline Environmental Condition of Project area i.e. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples should be conducted and report should be submitted to State Environment Impact Assessment Authority (SEIAA), Jharkhand and Jharkhand State Pollution Control Board (JSPCB), Ranchi prior to start of construction activities.

II. Construction Phase

- i. It shall be ensured that the construction debris is properly stored on the site prior to disposal. Such requirements shall be made part of the contractor agreement.
- ii. All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site. Proper erosion control and sediment control measures shall be adopted.
- iii. Earth material generated from excavation shall be reused to the maximum possible extent as filling material during site development. The construction debris and surplus excavated material shall be disposed off by mechanical transport through the Saraikela Municipal Corporation.
- iv. Disposal of muck, including excavated material during construction phase, shall not create any adverse effects on the neighbouring communities and shall be disposed off taking the necessary precautions for general safety and health aspects.
- v. Low Sulphur diesel generator sets should be used during construction phase. Diesel generator sets during construction phase shall have acoustic enclosures and shall

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- conform to Environment (Protection) Rules, 1986 prescribed for noise emission standards.
- vi. All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peak hours.
 - vii. Ambient noise levels shall conform to the standards prescribed by MoEF & CC, Govt. of India.
 - viii. The protective equipment such as nose mask, earplugs etc. shall be provided to construction personnel exposed to high noise levels.
 - ix. Construction spoils, including bituminous material and other hazardous materials including oil from construction equipment must not be allowed to contaminate soil/ground water. The dumpsites for such material must be secured so that they shall not leach into the ground water.
 - x. Proper and prior planning, sequencing and scheduling of all major construction activities shall be done. Construction material shall be stored in covered sheds. Truck carrying soil, sand and other construction materials shall be duly covered to prevent spilling and dust emission. Adequate dust suppression measures shall be undertaken to control fugitive dust emission. Regular water sprinkling for dust suppression shall be ensured.
 - xi. Use of Ready-Mix concrete is recommended for the project.
 - xii. Accumulation/stagnation of water shall be avoided ensuring vector control.
 - xiii. Regular supervision of the above and other measures shall be in place all through the construction phase so as to avoid disturbance to the surroundings.
 - xiv. Water during construction phase should be preferred from Municipal supply.
 - xv. All directions of the Airport Authority, Director of Explosives and Fire Department etc. shall be complied.
 - xvi. Unskilled construction labourers shall be recruited from the local areas.
 - xvii. Provisions shall be made for the integration of solar water heating system.
 - xviii. Provision of vermin-composting for the biodegradable solid wastes generated from the proposed extension buildings as well as the large amount of biomass that shall be available from the tree plantation shall be made.
 - xix. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
 - xx. Permeable (porous) paving in the parking areas, and walkways should be used to control surface runoff by allowing storm water to infiltrate the soil and return to ground water.
 - xxi. All intersections shall be designed and developed as roundabouts.
 - xxii. All utility lines (electricity, telephone, cable, water supply, sewage, drainage, etc. shall be laid below ground level. Ducts shall be provided along and across the roads to lay

the utility lines. Major trunk (water/sewerage) lines are to be laid along the utility corridor.

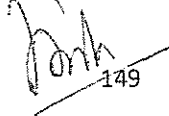
- xxiii. The road drainage shall be designed to enable quick runoff of surface water and prevent water logging.
- xxiv. Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forests, Government of India shall be adopted.
- xxv. Rest room facilities shall be provided for service population.
- xxvi. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, should be conducted and report should be submitted on monthly basis to SEIAA, Jharkhand & Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi.

Water Body Conservation :-

- i. Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.
- ii. Improvement or rehabilitation of existing nallas (if any) shall be carried out without disturbing the ecological habitat.

III. Post Construction/Operation Phase

- i. The environmental safeguards and mitigation measures contained in the application shall be implemented in letter and spirit.
- ii. All the conditions, liabilities and legal provisions contained in the Environmental Clearance shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity. Ground water shall not be abstracted without prior permission from the competent authority.
- iii. The storm water management plan shall be implemented in such a manner that the storm water is discharged through an existing dedicated Storm Water Outfall only.
- iv. The height of the stack of the DG sets should be as per norms of Central Pollution Control Board (C.P.C.B.), New Delhi.
- v. Medical (First-Aid) facility must be provided for visitors & employees. Para-medical staff should be attached as Medical facility provider.
- vi. Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs and herbs. Preferential plantation of flowering trees with less timber and fruits value shall be carried out.


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- vii. Two chambered container or two separate containers (one for recyclable wastes and other for all organic and compostable wastes) shall be placed at appropriate distance on the roadsides and inside the building. Covered dustbins/garbage collector in convenient places to collect the Municipal solid wastes shall be provided.
- viii. Proper composting / vermi-composting of municipal solid wastes shall be carried out. All municipal solid wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Municipal Solid Wastes (Management and Handling) Rules, 2000 (As amended).
- ix. The use of hand gloves, shoes and safety dress for all waste collectors and sorters shall be enforced.

IV. Entire Life of the Project

- i. The project proponent should implement Environmental Monitoring Programme as per details submitted in EMP.
- ii. No expansion/modification activity should be carried out obtaining prior Environmental Clearance as per EIA Notification 2006.
- iii. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stock Emissions & Testing of emission from DG sets should be conducted and report should be submitted on monthly basis to SEIAA, Jharkhand & JSPCB, Ranchi.

PART B- SPECIFIC CONDITIONS

I. Pre-Construction Phase

- i. Project Proponent should obtain prior consent to establish (NOC) under Section 25 & 26 of the Water (Prevention & Control of Pollution) Act' 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act' 1981 from State Pollution Control Board before start of construction activities.
- ii. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost). The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities.
- iii. Project Proponent should obtain prior permission for ground water withdrawal from CCWA/CGWB if applicable.
- iv. Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.
- v. Use of energy efficient construction materials to achieve the desired thermal comfort shall be incorporated. The desired level of roof assembling "U" factor and insulation

“R” value must be achieved. Roof assembling “U” factor for the top roof shall not exceed 0.4 watt/sq.m./degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 shall be strictly followed.

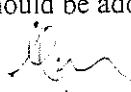
- vi. Street/Corridor lighting shall be energy efficient. The High Pressure Sodium Vapour (HPSV) Lamps & Compact Fluorescent Lamps (CFL) along Building premises shall be provided. High intensity, high mast lights to be installed at few strategic points. Solar energy may be used for outdoor lighting.
- vii. Reduction of hard paving-on-site (Open area surrounding all buildings) and/or provision of shades on hard paved surfaces to minimize heat island effect and imperviousness of the site should be undertaken.
- viii. All proposed air/conditioned buildings should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency.
- ix. Monitoring of AAQ as per NAAQs 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets should be conducted, and reports should be submitted on monthly basis to State Pollution Control Board (SPCB).
- x. Project proponent shall install Wind Augmentation and Air Purifying Unit (4 Units at one location in Ranchi) on Pilot basis to deal with particulate matter pollution.

II. Construction Phase

- i. All the conditions laid down in NOC issued by SPCB should be strictly complied with during entire construction cycle of the Project.
- ii. The water treatment plant shall be provided for treatment of water. The treatment shall include screening, sedimentation, filtration and disinfections. Appropriate arrangement shall be made for treatment and reuse of backwash water of filtration plant.
- iii. Project proponent shall provide adequate measuring arrangement at the inlet point of water uptake and at the discharge point for the measurement of water utilized in different categories and monitoring daily water consumption.
- iv. Regular water sprinkling shall be done all around the site to minimize fugitive dust emission during construction activities.
- v. Rain water harvesting structures should be provided as per submitted Plan.

III. Post Construction / Operation Phase

- i. Project Proponent should obtain prior consent to operate under Air Act, 1981 & Water Act, 1974 from State Pollution Control Board before commissioning of the project.
- ii. Water saving practices such as usage of water saving devices/fixtures, low flushing systems, sensor based fixtures, auto control walls, pressure reducing devices etc. should be adopted.

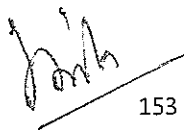
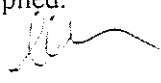



- iii. Water budget should be adopted as per the plan submitted in the supplementary Form I A & EMP.
- iv. All the generated domestic effluent should be sent to ETP/STP for treatment & further recycling & reuse.
- v. Treated water recovered from STP would be used for flushing the toilets, gardening purpose, make up water in air conditioning systems, etc. As proposed, Fluidized Bed Reactor (FBR) type sewage treatment plant should be installed. The Sewage Treatment Plant shall be ensured before the completion of Building Complex.
- vi. Rainwater from open spaces shall be collected and reused for landscaping and other purposes. Rooftop rainwater harvesting shall be adopted for the proposed Buildings. Every building of proposed extension project shall have rainwater-harvesting facilities. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter and oil and grease.
- vii. Municipal solid wastes generated in the proposed extension buildings shall be managed and handled in accordance with the compliance criteria and procedure laid down in Schedule- II of the Municipal Wastes (Management and handling) Rules, 2000 (As amended).
- viii. The standard for composting & treated leachates as mentioned in Schedule-IV of the Municipal Wastes (Management and handling) Rules, 2000 (As amended) shall be followed.
- ix. All hazardous wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Hazardous Wastes (Management and Handling) Rules, 1989 (As amended).
- x. Recycling of all recyclable wastes such as newspaper, aluminium cans, glass bottles, iron scrap and plastics etc. shall be encouraged through private participation. Project proponent shall take appropriate action to ensure minimum utilization of plastic carry bags and plastic small containers etc. within the proposed buildings shall be ensured.
- xi. Project proponent shall operate and maintain the sewage collection/conveyance system, sewage pumping system and sewage treatment system regularly to ensure the treated water quality within the standards prescribed by Ministry of Environment and Forests, Government of India.
- xii. Properly treated and disinfected (Ultra Violet Treatment) sewage shall be utilized in flushing the toilets, gardening purpose, make up water in air conditioning systems etc.
- xiii. Non-mixing of faecal matter with the municipal solid wastes shall be strictly ensured.
- xiv. Non-mixing of sewage/sludge with rainwater shall be strictly ensured.
- xv. Noise barriers shall be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards. D.G. sets shall be provided with necessary acoustic enclosures as per Central Pollution Control Board norms.
- xvi. Back up supply shall be based on natural Gas/cleaner fuel subject to their availability.
- xvii. The project proponent shall resort to solar energy at least for street lighting and water heating for Proposed Building Complex, gardens/park areas.

- xviii. During maintenance, energy efficient electric light fittings & lamps- low power ballasts, low consumption high power luminaries, lux level limiters & timers for street lighting shall be provided.
- xix. A report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, "R" and "U" factors etc.
- xx. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets & Testing of Untreated & treated effluent samples of STPs should be conducted and report should be submitted on monthly basis to SPCB.

IV. Entire Life of the Project

- i. All the conditions laid down in NOC & consent to operate issued by SPCB should be strictly complied with during entire life cycle of the project.
- ii. Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG Sets & Testing of Untreated & treated effluent samples of STPs should be conducted and reports should be submitted on monthly basis to SPCB.
- iii. The project authorities shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPC rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- iv. The overall noise levels in and around the project area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules 1989 viz. 75 DBA (day time) and 70 DBA (night time).
- v. The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by SEIAA, Jharkhand with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- vi. Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs. 15% of the total plot area shall be used for plantations.
- vii. Whenever developer will hand over building to the society, the developer must mention in the agreement or sale deed that 15% green belt area of total plot area should mentioned & Environmental Conditions given by SEIAA, Jharkhand has to be complied.



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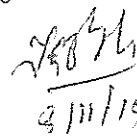
- viii. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
- ix. The funds earmarked for the environmental protection measures shall not be diverted for other purposes.
- x. In case of any changes in the scope of the project, the project shall require a fresh appraisal by the SEAC/SEIAA.
- xi. The SEAC/SEIAA, Jharkhand will have the right to amend the above conditions and add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- xii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi.
- xiii. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal (NGT), if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010

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A. Specific Conditions

1. As proposed, only propane gas will be used as fuel to reduce particulate emissions.
2. Efforts shall be made to reduce PM levels in the ambient air. Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration of PM are anticipated in consultation with the State Pollution Control Board (SPCB). Data on ambient air, stack and fugitive emissions shall be submitted to the SEIAA Office JSPCB and CPCB.
3. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided. The emissions of particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time.
4. The company shall monitor the raw and treated wastewater quality for trace metals and air quality at sources and ambient including routine parameters and the reports shall be submitted regularly with six monthly compliance report.
5. The company shall connect the pollution control equipment to DG set to ensure operation of these equipments during power failure. The company shall also provide interlocking system with the process equipment so that the plant automatically stops in case the pollution load exceeds the guaranteed limits.
6. The industry shall ensure that the treated effluent and stack emissions in the unit are within the norms stipulated under the EP Rules or JSPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipments adopted in the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
7. In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust suppression and dust extraction systems shall be provided to control fugitive emissions at material handling points. Fugitive emissions shall be controlled by providing closed storages, water sprinkling system, etc. to arrest the suspended particles.
8. Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 shall be followed.
9. Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.
10. Total water requirement from ground water source shall not exceed 495 m³/day. All the wastewater generated from the process shall be treated in the effluent treatment plant (ETP) and recycled and reused in the process and/or used for dust suppression, green belt development and for various activities at the project site. No effluent shall be discharged outside the premises. 'Zero' discharge shall be strictly adopted.
11. Prior permission for the drawl of 150 m³/day water from ground water source shall be obtained from the concerned department and a copy of the letter shall be submitted to this office within 6 months of issue of the environment clearance.
12. As proposed, all the metal scrap, iron oxide and dust shall be disposed for recycle / reuse in furnaces. The domestic waste including sewage sludge shall be treated biologically and used

as manure for green belt. Used/spent oil shall be sold to authorized recyclers as per the Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2016 and subsequent amendments.

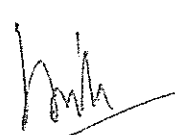
13. A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
14. Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding end use of solid/hazardous waste shall be submitted to the SEIAA, JSPCB and CPCB.
15. Plantation should be done over an area equal to 33% of plant area including Green Belt inside and Plantation outside the premises. Local species trees should be planted as per the CPCB guidelines.
16. Proper care shall be taken in structural design to protect against earthquake if the site falls under earthquake zone and implemented during construction phase.
17. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP/Soak Pit, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

A. General Conditions

1. The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board (JSPCB) and the State Government.
2. No further expansion or modifications in the plant shall be carried out without prior approval of the concerned authority/ SEIAA, Jharkhand.
3. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The Jharkhand State Pollution Control Board (JSPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
4. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM, SO₂ and NO_x are anticipated in consultation with the State Pollution Control Board. Data on ambient air quality and stack emission shall be regularly submitted to this office and JSPCB / CPCB once in six months.
5. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

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6. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
7. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
8. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
9. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. Copy of same should be submitted to this office for record.
10. The company shall undertake rainwater harvesting measures by collecting the rainwater through drains. The water collected shall be connected to raw water pipeline for reuse in the plant. The company shall provide proper drainage system for rainwater to prevent water logging within and in the vicinity of the plant.
11. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act. OHSAS certification should be obtained within two years.
12. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report and during the public hearing meeting. Further, the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
13. A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior Executive, who will report directly to the Head of the organization.
14. Adequate funds shall be earmarked towards capital cost and recurring cost/annum for the environmental pollution control to implement the conditions stipulated by the SEIAA as well as the State Government. An implementation schedule for complying with all the conditions stipulated herein shall be submitted to the JSPCB. The funds so provided shall not be diverted for any other purposes.
15. 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.

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16. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
17. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the SEIAA Office, CPCB and the JSPCB. The criteria pollutant levels namely; PM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
18. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA, the respective Zonal Office of CPCB and the JSPCB. The Zonal Office of CPCB / JSPCB shall monitor the stipulated conditions.
19. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Offices.
20. Project authorities shall inform the SEIAA Office, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
21. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



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Industry ToR

Annexure VII

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.

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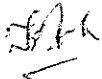
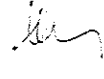
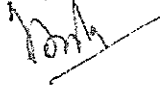
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- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, 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 NAQPM 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.

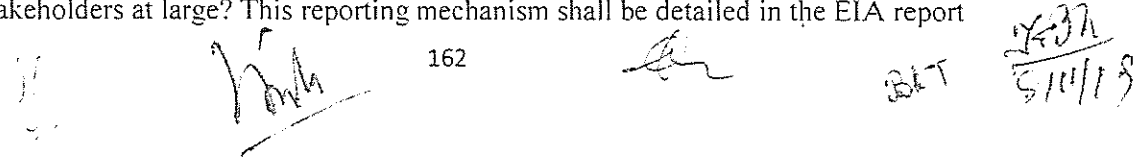
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning 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

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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



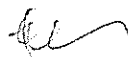

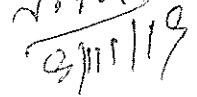
C. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT

BLT

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. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III 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.
3. 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.

    
B&T 23/4/19
23/11/19

In the SEAC meeting held on 24.10.19, the above proposal was appraised. During the appraisal certain observation were raised.

The PP has replied the observations on 01.11.2019.

The PP has submitted the required documents at the fagend of the meeting which could not be examined. Hence document submitted by the PP along with all the documents is being forwarded to SEIAA for needful.

Day 4 : November 07, 2019 [Thursday]

Any other matter with the permission of the Chair:-

Earliar list of pending proposal in SEAC was sought by Chairman SEAC, so that proposals possible to be disposed off may be considered. After being provided the list, it was observed that large number of small brick clay mining and other projects have been transferred by SEIAA after the cut off date. Large number of Representatives of Brick Kiln manufacturing association made their representation to provide them an opportunity to be heard considering the last meeting of the present SEAC and SEIAA. They are very small and facing unemployment as also the extended period for installing to new Brick Kiln Green Technology, otherwise they will miss the opportunity provide by State and large scale possible labour migration and revenue loss to State might take place.

Consequent to this, Chairman SEAC advised all members to explore working 3-4 hours each day beyond the normal working hours of the meeting, if possible considering the possible impact of not permitting their representation,

It was observerd further that number of project proposals of small units like bricks and stone mines were lying to be appraised for want of time. In the interest of infrastructure development, seasonal nature and employment consideration of weaker segment and rural economy on the initiation of the State Government, these projects were permitted by the Chairman to be taken up. Since it was not possible to isolate the brick mining from the list, the other proposals received in SEAC after 18th October, 2019 i.e. upto 24th October, all were taken up for appraisal with all due diligence and careful scrutiny.

Consideration of Proposals

1. **Pokharia Stone Mine Project of M/S K.K.Stone at Mouza- Pokharia , P.O-Benagaria, P.S- Shikaripara, Dist-Dumka Jharkhand (2.98 Ha)**

This is a Stone Mining Project with an area of 2.98 Ha [Plot No. -538(P), 539(P), 540(P), 541, 542(P), 543(P), 1186(P), 1189, 1190(P), 1191(P), 1192, 1197(P), 1221, 1222, 1223, 1224(P), 1225(P), 1226, 1227, 1228(P), 1229(P), 1230(P), 1231(P), 1232(P), 1233, 1234, 1235(P)]. The latitude and longitude of the project site is 24°12'6.74"N To 24°11'54.45"N and 87°33'35.32"E To 87°33'38.64"E. The nearest railway station is Pinargaria Railway Station 8.5 Km East and nearest airport is Birsa Munda Aiport, Ranchi. 250 km SW. Total water requirement is 5.76 KLD (Dust Suppression : 3.71 KLD, Afforestation / Green belt : 0.97 KLD, Drinking / Domestic : 1.08 KLD). The drinking & domestic water need will be

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8.11.19

MINUTES OF THE 82ND MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 04TH, 05TH, 06TH & 07TH NOVEMBER, 2019

The 82nd meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 04th, 05th, 06th & 07th November, 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. Dr. R. V. Singh | - Member |
| 8. M.S. Bhagwat | - Member |
| 9. Sri U.P. Singh | - Member |
| 10. Sri Om Prakash | - Member Secretary |

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 23rd, 24th & 25th October, 2019. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite information's / 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 : November 04, 2019 [Monday]

Consideration of Proposals

Chairman observed following aspects for appraisal in all such brick earth mining projects discussed:

Soil is essential land component which contributes to agriculture productivity depending upon type of agriculture the fertility, water innutrition requirement, irrigation climate. Conditions and many other climate factors. Value of agriculture land depends upon its yield and other revenue related regulation & norms. Environment impact includes soil erosion, salinity, nutrient deficiency & dust dispersed in air under varying climate conditions. On the other hand, supply side considerations for earth includes following considerations.

Soil & Earth excavation comes under minor mineral activity. Mining of Earth is targeted to use mined out product for production of burnt clay & as such earth excavation is considered as a linked project. Traditionally earth mining & burnt clay bricks is a decentralized activity being practiced in a rural areas of country. Although operation of such burnt clay brick production utilizes local skills. Bricks is used for wall envelope making in shelter & construction works. Yet it affects land environment and land use.


9.11.19

So efficient use of resources becomes issue of prime concern for optimized decisions making. While considering recommendations for soil excavation, it becomes pertinent to examine issues for linked project. Presently, mostly the burnt clay bricks utilizes CBT kilns & as such utilizes huge quantity of local fuel for burning on average ranging from 18-20 MT/ lac bricks.

Utilization of this technology results in high Carbon foot print and poor air quality, production of low quality bricks beside low productivity / lower revenue surplus leaving little surplus and attention for employment security & welfare. Migration of labor & loss of revenue under the prevailing situation, thus, becomes a vicious circle.

Recent advancement in switch over to ID/Natural Zig- Zag Kiln is expected to reduce coal consumption by 6-8 MT/ Lac bricks besides better productivity & higher revenue generation which may lead to better attention for labor security and engagement for labor welfare activities. It is in this background Hon'ble NGT and Supreme Court directed to switch over to go Zig-Zag kiln. Hon'ble CM, Jharkhand now have extended time limit for installation of cleaner brick kilns - ID/Natural Zig- Zag Kiln before the last date to obtain CTE from JSPCB. Considering all these proposals, the proposal for sustainable

Earth mining has been considered by SEAC in its 82th meeting.

In addition to soil erosion, soil quality is affected by other aspects of agriculture. These impacts include compaction, loss of soil, structure, nutrient degradation & soil salinity & loss of agriculture produce. The effect of soil erosion goes beyond the loss of fertile land.

Excavation hazards may include during earth collapse due to shallow pit excavation, falling into excavated pits contact with buried electrical, gas / oil pipe lines, collapse of soiling vicinity of building structure etc and may give rise to injury, shocks, suffocation due to soil heats & electrification in addition to leakage from underground waste.

Excavation of earth considered is a manual activity. Soil as vital face of techs agriculture productivity depending upon type of agriculture the fertility, water nutrition requirement, irrigation and climate Conditions and many other climate factors. Value of agriculture land depends upon its yield and other revenue related regulation & norms. Environment impact includes soil erosion, salinity, nutrient deficiency & dust spread in air under varying climate conditions. On the other hand, supply side considerations for earth includes following considerations. Soil & Earth excavation comes under minor mineral activity. Mining of Earth is targeted to use mined out product for production of burnt clay & as such earth excavation is considered as a linked project. Traditionally earth mining & burnt clay bricks is a decentralized activity being practiced in a rural areas of country. Although operation of such burnt clay brick production utilizes local skills. Bricks is used for wall envelope of shelter & shelter construction sector. Yet it affects land environment and soil. So efficient use of resources becomes use of issue of prime concern for optimized decisions.

While considering recommendations for soil excavation, it becomes pertinent to examine issues for linked project. Presently, mostly the burnt clay bricks utilizes FTCBT kilns & as such utilizes huge quantity of local fuel for burning on average ranging from 18-20 MT/ lac bricks. Utilization of this technology results in production of poor quality of bricks beside poor productivity, low revenue surplus & so little attention for employment security & labor welfare. Migration of labor & loss of revenue under the prevailing situation, thus becomes a vicious circle. Recent advancement in switch over to 10/ natural zig zag kiln is expected to reduce coal consumption by 6-8 MT/ Lac

bricks besides better productivity & higher revenue generation which may lead to better attention for labor security and engagement for our welfare activities. It is in this background Hon'ble NGT and Supreme Court directed to switch over to go big-Tax kiln. Hon'ble CM, Jharkhand now have extended time limit for installation of cleaner brick Kilns ID / Natural Zig- Zag Kiln before the last date to obtain CTE from JSPCB. Considering all these proposals, the proposal for sustainable Earth mining has been considered by SEAC in its 82 Th meeting. In addition to soil erosion, soil quality is affected by other aspects of agriculture. These impacts include compaction, loss of soil, structure, nutrient degradation & soil salinity & loss of agriculture produce. The effect of soil erosion go beyond the loss of fertile land. Excavation hazards may include during earth collapse due to shallow pit excavation, falling into excavated pits contact with buried electrical, gas / oil pipe lines, collapse of soil in vicinity of building structure etc. and may give rise to injury , shocks , suffocation due to soil heats & electrification in addition to leakage from underground waste.

Following Conditions in addition to conditions of annexure 1, shall be applicable in all considered Brick Clay mining projects:-

1. PP shall link the work force with maximum coverage under PM shramyogi scheme to provide them better health facilities.
- 2 PP shall provide guard rails/ barricade with warning signals.
- 3 PP shall provide minimum two entries/ exits & install emergency escape from excavated areas.
- 4 Top soil up to 30 cm shall be preserved separately & used further in areas requiring improvement of agriculture productivity.
- 5 This EC is recommended subject to fulfillment of condition that PP shall install ID/natural draft Zig-Zag Kiln within the time frame allowed by state as per NGT order and gety CTE from JSPCB.
- 6 This is subject to all due diligence as per regulatory bodies and Court directives.
- 7 PP shall seek advise/instruction by informing concern departments as to the location of buried electrical lines/gas pipe lines, so that no event of electrocution/pipe line damage takes place to avoid injury and other health hazards.

1. **Burka Brick Clay Deposit of M/s Bedal Bricks at Vill : Burka, Thana : Bhandra, Dist : Lohardaga (0.996 Ha).**

(Proposal no. : SIA/JH/MIN/44309/2019)

This is Brick clay Mining Project with an area of 0.992 Ha [Plot No. 38 & 46, Khata No. 05. The latitude and longitude of the project site is 23°20'19.52"N to 23°20'23.95"N and 84°45'00.11"E to 84°45'03.95"E. The nearest railway station is Irgaon at a distance of 10.0 km and nearest airport is Ranchi airport at a distance of 58 km. Total water requirement is 3.5 KLD. Water will be taken from private tanker.

The indicated project cost is Rs 12.0 Lakh and a provision of Rs 2.00 Lakh has been indicated for Environment management.

Total minor mineral reserve of the applied area is about 12916 cum. As per estimation of requirement of 1715.30 cum for casting the granted number of Six Lakhs bricks / Season, the life of proposed area comes to be 7.50 seasons.

DFO, Wildlife Ranchi vide memo no. 1037, dated 16.09.19 certified that the not within of 10 km is under ESZ National Park, Bio-Diversity, Sanctuary.

DFO, Lohardaga Division vide letter no. 36, dated 04.01.19 certified that the distance of notified forest is 3000 m from proposed project site.

The CO, Bhandra (Lohardaga) vide letter no. 731, dated 23.09.19 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyani.

DMO, Lohardaga vide memo no. 643, dated 28.08.2019 certified that no other lease is exists within 500 m radius from proposed project site.

Besides, the DSR of the district has not incorporated the said brick earth mining site. The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Burka Brick Clay Deposit of M/s Bedal Bricks at Vill : Burka, Thana : Bhandra, Dist : Lohardaga (0.996 Ha)** be conditionally (project site not mention in DSR) recommended for subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

2. **Chakla Brick Clay Deposit of M/s Ravi Bricks at Vill : Chakla, Thana : Ormanjhi, Dist : Ranchi (1.003 Ha).**

(Proposal no. : SIA/JH/MIN/44294/2019)

This is Brick clay Mining Project with an area of 1.003 Ha [Plot No. 1032 (P), 1033 & 1034 (P), Khata No. 97]. The latitude and longitude of the project site is 23°27'52.82"N to 23°27'56.99"N and 85°28'31.79"E to 85°28'37.07"E. The nearest railway station is Mersa at a distance of 8.0 km and nearest airport is Ranchi airport at a distance of 23.0 km. Total water requirement is 2.0 KLD. Water will be taken from private tanker.

The indicated project cost is Rs 15.0 Lakh and a provision of Rs 6.6 Lakh has been indicated for Environment management.

Total minor mineral reserve of the applied area is about 14372 cum. As per estimation of requirement of 1715.30 cum for casting the granted number of Six Lakhs bricks / Season, the life of proposed area comes to be 8.38 or 8.50 seasons.

DFO, Wildlife Ranchi vide memo no. 1055, dated 24.09.19 certified that the National Park, Bio-Diversity, Sanctuary not within 10 km and proposed site is under ESZ.

CF / DFO, Ranchi Division vide letter no. 4804, dated 17.11.17 certified that the distance of forest is 1100 m from proposed project site.

The CO, Ormanjhi (Ranchi) vide letter no. 522, dated 26.09.19 has mentioned the plots of the project are not recorded as "Jangle Jhari" in R.S Khatiyani.

DMO, Ranchi vide memo no. 02, dated 01.01.2018 certified that no other lease is exists within 500 m radius from proposed project site.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Chakla Brick Clay Deposit of M/s Ravi Bricks at Vill :Chakla, Thana : Ormanjhi, Dist : Ranchi (1.003 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

3. **Sakrauli Brick Clay Deposit of M/s Sahu Brick (Prop: Sri Pankaj Kumar Sahu) at Vill – Sakrauli, Thana : Sakrauli, Dist. : Gumla (0.894 Ha).**

(Proposal no. : SLA/JH/MIN/44511/2019)

This is Brick clay Mining Project with an area of 0.894 Ha [Khata no. 26, Plot no. 1022 (P), 1041 (P), 1042 (P)]. The latitude and longitude of the project site is 23°09'34.77"N to 23°09'39.37"N and 84°47'44.13"E to 84°47'48.52"E. The nearest railway station is Nagjua at a distance of 26.5 km and nearest airport is Ranchi airport at a distance of 55 km. Total water requirement is 3.1 KLD. Water will be taken from private tanker.

The indicated project cost is Rs 10.0 Lakh and a provision of Rs 2.00 Lakh has been indicated for Environment management.

Total minor mineral reserve of the applied area is about 10082 cum. As per estimation of requirement of 1714.60 cum for casting the granted number of Six Lakhs bricks / Season, the life of proposed area comes to be 5.80 or 6.00 seasons.

DFO, Wildlife Ranchi vide memo no. 1149, dated 11.10.19 certified that the proposed site is National Park, Bio-Diversity, Sanctuary and not within 10 km under ESZ.

DFO, Gumla Division vide letter no. 387, dated 29.01.18 certified that the distance of notified forest is 1000 m from proposed project site.

The CO, Sisai vide letter no. 780, dated 04.10.19 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Gumla vide memo no. 921, dated 11.10.2019 certified that no other lease exists within 500 m radius from proposed project site.

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

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

SEAC recommends the proposal for EC to SEIAA subject to submission of certificate from competent authority of Jharkhand regarding inclusion in the DSR. An undertaking in this regard has been submitted by the proponent.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Sakrauli Brick Clay Deposit of M/s Sahu Brick (Prop: Sri Pankaj Kumar Sahu) at Vill – Sakrauli, Thana : Sakrauli, Dist. : Gumla (0.894 Ha)** be conditionally (project site not mention in DSR) recommended for

subject to submission of DSR from competent authority directly to SEIAA consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

4. Kulbhanga Stone Deposit of M/s Maa Durga Stone Works (Prop. : Shri Bishnu Prasad Yadav) at Vill : Kulbhanga, Block + Taluka: Jirwabadi (OP), Dist. : Sahebganj (4.70 Ha).

(Proposal no. : SLA/JH/MIN/44723/2019)

This is a Stone Mining Project with an area of 4.70 Ha [Khata no. 79, 55, 48, 58, 14, 72, 84, Plot No.- 51, 53, 54, 55, 56, 58 & 59 (P)]. The latitude and longitude of the project site is 25° 12' 24.88" N to 25° 12' 33.92" N and 87° 34' 37.62" E to 87° 34' 49.45" E. The nearest railway station is Sahibganj at a distance of 8.0 km and nearest airport is Ranchi at a distance of 450 km . Total water requirement is 2.5 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 details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	34,75,475 tonne
Probable Mineable Reserve	:	1,88,222 tonne

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

1 st Year	:	2,10,200 tonne
2 nd Year	:	2,41,294 tonne
3 rd Year	:	2,04,404 tonne
4 th Year	:	2,31,852 tonne
5 th Year	:	2,56,592 tonne

The daily production as per Form-I is 156 tonne.

The indicated project cost is Rs 75.00 Lakh, a provision of Rs 8.5 Lakh has been indicated for Environment management and CER is 5.00 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1583, dated 09.08.19 certified that the Udhwa Lake Bird Sanctuary is 31115 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. 2316, dated 22.12.17 certified that the distance of notified forest is 370 m from proposed project site.

DMO, Sahebganj vide memo no. 1041, dated 31.07.19 certified that no other lease are exists within 500 m radius from proposed project site.

The CO, Mandro vide memo no. 258, dated 13.03.19 has mentioned the plots of the project are not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Kulbhanga Stone Deposit of M/s Maa Durga**

Stone Works (Prop. : Shri Bishnu Prasad Yadav) at Vill : Kulbhanga, Block + Taluka: Jirwabadi (OP), Dist. : Sahebganj (4.70 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

5. **Proposed Rehabilitation & Resettlement Package (R & R) for HEC Displaced Persons of M/s Greater Ranchi Development Agency Ltd. at Site 1, HEC area, Vill. : Aani, Dhurwa, Ranchi.**

(Proposal No. : SLA/JH/NCP/22997/2018)

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 th November, 2011
2.	Construction Work Started	15 th December, 2016
3.	Proposal submitted to MoEF & CC in violation category	11 th September, 2017
4.	Transferred proposal to SEIAA Jharkhand	28 th March, 2018
5.	EDS Letter	15 th May, 2018
6.	TOR Proposal (Resubmission) EDS reply	20 th June, 2019
7.	Acceptance of ToR proposal	20 th 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 Latitude : 23°19'22.9"N to 23°19'35.8"N Longitude : 85°17'03.8"E to 85°17'02.4"E
5.	Total Plot Area	236835.4 sq.m.
6.	Permissible Ground Coverage @ 50% of plot area	118417.719 sq.m.
7.	Proposed Ground Coverage @ 20.505 % of plot area	48563.107 sq.m.
8.	Permissible FAR @ 2 of plot area	473670.877 sq.m.
9	Proposed FAR @0.2 of plot area	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.
	Total Built-up Area	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

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

Parking 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 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 ground water by providing treated water to the nearby building construction activities No discharge will be

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			made to any water body.
Waste resource	Waste generation of 357 Kg per day . Excavated soil	Littering of waste 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 Loose construction material Storage Use of DG sets	Particulate matter 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. Noise from DG sets	Disturbance to vulnerable groups Disturbance to nearby residents	There will be acoustic enclosure for DG sets; construction activity will be during day time only. Only properly maintained and PUC vehicle will be used. Honking will be discouraged.
Water Environment	Water withdrawal Generation of waste water	Stress on water resources. 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 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. 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 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 quantity 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

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notification S.O. 1030 (E), dated 08.03.18 as construction work 90% completed without prior EC.

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).

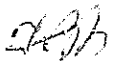
On scrutiny of the document eg :

- 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


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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.

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.*

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 be 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. , Sri S.P. Srivastava, Member SEAC observed that:

The quantities of earth work appear to be too low for a project of this magnitude and needs quantification of soil at indicated depth of excavation.

These figures have not been substantiated with the BOQ for foundation, site preparation, terracing backfilling site levelling to achieve the finished terrace level drains, boundary wall etc.

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

[A] Documents required / corrections needed


Appropriate layout drawing with proper co-ordinate system, Contour plan was requested which PP could not provide at the time. Layout plans without any coordinate system & legible levels of contour has so far been furnished. PP was asked to submit following other documents as detailed as below:

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 $236835.4m^2$ 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 53500m², Earthwork Excavation Quantity for entire site leveling , any other major units(not identified above) with Excavation quantity of more than 100 m³.


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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.

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 lightening 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.

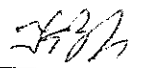
There has to be a clarity whether the project has been designed with Underground Pipe Drainage network or open drains with concrete covers along all roads & cross-roads, Extract of BOQ is required to substantiate the correct statement.
3. On page no 21, there is a statement that “For basement parking, the rainwater from ramps will be collected in the basement storm water storage tank. This water will be

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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.”
7. Shri Shrivastava and few others have observed serious inconsistencies in the statements provided in in 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 83under 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.


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- 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 Page44,

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. The revised estimate of cost as furnished by the PP now is reproduced below to assess Ecological Damage:

Sr. No	Major Environment	Details	Cost , Rs Crores
	Air Environment	Treatment of Respiratory Diseases due to uncontrolled emissions of Particulate Matter PM10 and PM2.5 Total Population =127779, persons affected@0.11% (CPCB Report-Study of Respiratory Diseases, WHO Report, Lancet Journal and Indian Researchers) due to incremental load of 0.1µg/m ³ ,and for every 10 µg/m ³ ,13% population develops Respiratory problems. Cost of Treatment involved =Rs.42000/= per person, no. of persons affected due to project =141 Total cost of Treatment =(141*42000)=Rs0.59 Cr	0.59
	Land Environment	Loss of Water Shed Area as direct component of ecology.(WORT Report) .The cost of constituent micro watershed is not available readily, hence the indirect cost of GDP price of the land involved has	1.77

		<p>been considered. It is derived by dividing Total GDP (GSDP) value of Jharkhand State (Economic Survey 2017-18) and Total geographic area of Jharkhand State and it comes to Rs.189.0 m2. Applying correction of - 20 % to the value the net value of water shed to get the approximate value(in absence of details of natural resources such as crop/vegetable/ oil seeds/milk/fodder/forest etc production), comes to Rs.75 m2. The total area of VS 1.77 Plot = 236835.4 m2 * 75 = Rs.1.77 Cr</p>	
	Water Environment	<p>Direct Recharge Loss due to catchment area and as component to natural recharge to ground water regime of the ecology and most importantly to the 'ecological flow' of the ecosystem being a part of larger Subarnarekha Basin reducing its life sustaining capacity. Plot Area = 236835.4 m2, Average Rainfall = 1100 mm (Ranchi District-IMD Data), Recharge factor as infiltration to ground water from surface runoff over the area = 0.2 (CGWB Guidelines ,GEC 1997), Therefore total natural Recharge loss = $236835.4 * 1.1 * 0.2 = 52103.78 \text{ m}^3$, Vol of Recharge as envisaged in EIA Report = 1554.02 m3, Net Recharge Loss = 50549.76 m3,</p> <p>Now one tanker load = 4 m3, No. of Tankers = $(50549.76/4) = 12637 \text{ nos.}$, Cost of 1 Tanker load of water = Rs. 264 (assumption at current bulk cost) , = 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 = say Rs. 0.05 Cr</p>	<p>0.33</p> <p>0.05</p>
	Soil Environment	Direct loss to soil environment as natural resource of ecosystem. Total	0.09

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		vol. of soil excavated , hauled and stored at certain place = 6543.0 m ³ , fines generated during excavation and loading into dumpers and loss as water erosion during rains/monsoon at storage site = 10 % = 654.3m ³ , balance soil as material balance = 6543.0 – 654.3 = 5888.7 m ³ , Fines generated during restoration/backfilling =10% =588.87 m ³ . Total soil fines lost =(654.3+588.87) =1243.17 m ³ . No of dumper loads @ 4 m ³ = 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	0.5
		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 ² 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
Total			3.83 Cr.

SEAC discussed the replies of queries raised in the earlier meetings and finds the revised remediation cost Rs. 3.83 crores provisionally seems likely value, as agreed by PP considering that construction started much before the Application for prior EC could be considered and many other possible damages might not have been possible to assess.

Finally SEAC recommends this proposal to SEIAA for issuance of EC subject to confirmation of submission of **bank guarantee** to the tune of Rs. **3.83 crore** provisionally in favour of Jharkhand State Pollution Control Board, Ranchi with the conditions as provided in **Annexure – V** attached with this MOM.

[Handwritten signature]
6-11-19