

MINUTES OF THE 65TH MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 07TH 08TH & 09TH JANUARY, 2019

The 65th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 07th 08th & 09th January, 2019 under the Chairmanship of Sh. K.P. Bhawsinka in the Conference Room at SEAC, Ranchi.

1. Sri K.P. Bhawsinka - Chairman
2. Dr. B.K. Tewary - Member
3. Sri R.N. Singh - Member
4. Sri S.P. Srivastava - Member
5. Dr. V.P. Sinha - Member
6. Sri Y.K. Singh - Member
7. Sri Om Prakash - Member Secretary

Dr. R. V. Singh, Sri U.P. Singh & Sri Mohan Sriram Bhagwat, Member, SEAC could not attend the meeting due to personal reason.

Various projects as received by SEIAA after the previous SEAC meeting held on 04th & 05th December, 2018 and forwarded to SEAC for the technical appraisal, were put up for discussions. Besides, those Projects, which were already appraised in SEAC's earlier meetings, where in PPs were asked to provide requisite informations / clarifications, were also considered for examination / scrutiny. The Project proponents replied with required documents. Accordingly, the Project Proponents were 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:-

A. Discussion on matter related to :

i. Hon'ble NGT order dated 13.09.18 & 11.12.18 and MoEF & CC notification dated 25.07.18

The Hon'ble NGT, Principal Bench, New Delhi in its order 12.09.18 has inter-alia directed the Ministry of Environment, Forest & Climate change Govt. of India as follows :-

- I. Providing for EIA, EMP and therefore public consultation for all areas from 5 to 25 Ha falling under category B-2 at par with category B-1 by SEIAA/SEAC as well as for cluster situation wherever it is not provided;
- II. Form-1M be made More comprehensive for areas of 0 to 5 Ha by dispensing with the requirement for public consultation to be evaluated by SEAC for recommendation of grant of EC by SEIAA instead of DEIAA/DEAC;
- III. If a cluster or an individual lease size exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior Environmental Clearance.
- IV. EIA and /or EMP be prepared for the entire cluster in terms of recommendations 5 (supra) of the guidelines for the purpose of recommendations 6, 7 and 8 thereof;
- V. Revise the procedure to also incorporate procedure with respect to annual rate of replenishment and time frame for replenishment after mining closure in an area;
- VI. The MoEF & CC to prepare guidelines for calculation of the cost of restitution of damage caused to mined- out areas along with the Net present value of Ecological services forgone because of illegal or unscientific mining.

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Hon'ble NGT, Principal Bench in its order dated 11.12.2018 in EA 55/2018 in O.A.- 520/2016 has suspended the activity of issuing Environmental Clearance by DEIAA/DEAC for minor minerals as per Ministry of Environment, Forest & Climate change Govt. of India, Notification dated 15.01.2016, till a fresh notification is issued by the Ministry.

As per above order of Hon'ble NGT, Principal Bench the Ministry of Environment, Forest & Climate change, Govt. of India vide Office Memorandum F.No- L-11011/175/2018-IA-II (M) dated 12.12.2018, has directed to comply the above direction of Hon'ble NGT. Besides this,

Therefore, in compliance of Ministry of Environment, Forest & Climate change Govt. of India, OM dated 12.12.2018. SEIAA, Jharkhand vide its "Minutes" dated 07.01.2019 decided that E.C. for the project of minor minerals having 0-5 ha area would be appraised by SEIAA with application & documents submitted in FORM 1.

SEAC discussed all the issues and point - wise deliberation has been made as shown in tabular form :

Sl. No.	Directions	Proposed action by SEAC
a)	Providing for EIA, EMP and therefore public consultation for all areas from 5 to 25 Ha falling under category B-2 at par with category B-1 by SEIAA/SEAC as well as for cluster situation wherever it is not provided:	Issuance of ToR for each & every project & cluster situation and public hearing, EIA / EMP preparation & their appraisal.
b)	Form-I M be made more comprehensive for areas of 0 to 5 Ha by dispensing with the requirement for public consultation to be evaluated by SEAC for recommendation of grant of EC by SEIAA instead of DEIAA/DEAC;	Making the Form 1 M more comprehensive is not within the jurisdiction of SEAC, Jharkhand. Till the form 1M be revised by the competent authority, the Form-I as meant for B1 project, will be applicable for 0-5 ha projects.
c)	If a cluster or an individual lease size exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior Environmental Clearance.	Applicable process will be followed.
d)	EIA and /or EMP be prepared for the entire cluster in terms of recommendations 5 (supra) of the guidelines for the purpose of recommendations 6, 7 and 8 thereof;	As per applicable process.
e)	Revise the procedure to also incorporate procedure with respect to annual rate of replenishment and time frame for replenishment after mining closure in an area:	"Till revision of procedure with respect annual rate of replenishment & time frame is effected by Mo EF, specific ToR be given considering each site's specific situation"
f)	The MoEF&CC to prepare guidelines for calculation of the cost of restitution of damage caused to mined- out areas along with the Net present value of Ecological services forgone because of illegal or unscientific mining.	MoEF&CC will formulate & there will be incorporated in appraisal process.

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ii. Shortcomings in existing DSR

The SEAC discussed the issue of shortcomings in existing DSR.

The District Survey Report (DSR) will form the basis for application for Environmental Clearance, preparation of report and appraisal of the project. Specific evaluation is needed for proper appraisal of projects for Environmental Clearance following informations details are essential in DSR as per MoEF&CC notification dated 25.07.2018 which are, in general, not provided in the District Survey Report (DSR).

- (i) Location of the sand / mineral Resource area with Co-ordinates.
- (ii) The Geological and Geo-morphological map of the area on 1:50, 000 scale, may be referred as basic data.
- (iii) Resource area should be shown on village map.
- (iv) The DSR should contain a comprehensive map so that resource of the lease area and its contiguous lease could easily be determined.
- (v) Classification of rocks should be done properly. Recent Reports and publications may be consulted for Regional Geology and Geology of the area.
- (vi) In case of Sand mining number of the sand lease areas in the upstream and replenishment of sand in the river basin be mentioned.
- (vii) Extent and quality of Riparian vegetation along with riparian vegetation map be provided.

B. Matter referred by SEIAA

- i. Residential Group Housing Project "Ashiana Sehar" of M/s Ashiana Housing Ltd. at Plot no. 122, 123 & 159, Village – Pardih, Jamshedpur, East Singhbhum.

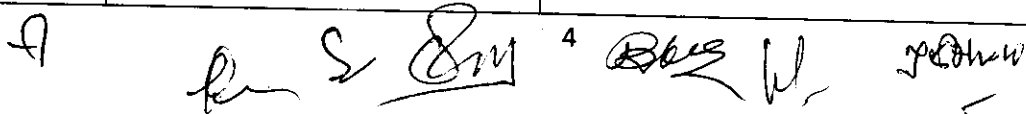
The salient feature of project is given in table below :

Name of the project	Residential Group Housing Project "Ashiana Sehar" at Village – Pardih, Block – Karndih, Tehsil – Golmuri Cum Jugsalai, Jamshedpur, Dist. - East Singhbhum.	
Name of applicant	Ashiana Housing Limited	
Category of the project	B2 8(a) Building & Construction Projects	
Latitude and Longitude	A	22°50'38.25"N; 86°12'1.34"E
	B	22°50'37.99"N; 86°12'1.68"E
	C	22°50'36.27"N; 86°12'0.98"E
	D	22°50'35.93"N; 86°12'1.80"E
	E	22°50'33.86"N; 86°12'0.69"E
	F	22°50'34.08"N; 86°11'59.78"E
	G	22°50'34.72"N; 86°11'59.27"E
	H	22°50'35.13"N; 86°11'58.93"E
	I	22°50'35.66"N; 86°11'56.68"E
	J	22°50'36.55"N; 86°11'56.66"E
	K	22°50'37.01"N; 86°11'56.86"E
	L	22°50'38.90"N; 86°11'58.72"E
Project location	Jamshedpur, East Singhbhum, Jharkhand	

	Plot No.- 122, 123 & 159	
Total land area	1.43 Ha / 3.54 Acres	
Total plot area	14304.80 Sq.m	
Total built up area	35,486.32 Sq.m.	
New / Expansion / Modernization	New project	
Nearest Airport	Sonari Airport, 4.18 km, SW	
Water requirement	Construction Phase	Operation Phase
	Total water requirement during construction phase is 5 KLD and the water requirement will be met through private tankers.	Total water requirement during operation phase is 211 KLD which includes 130 KLD fresh water and 81 KLD treated water met through municipal supply by Mango Notified Area Committee (MNAC)
Power requirement	Construction Phase	Operation Phase
	During construction phase estimated power requirement will be 75 KW which will be met by Jharkhand State Electricity Board.	During operation phase power requirement is 800 KVA and will be sourced from Jharkhand State Electricity Board.

Built up Area details :

Sl. No.	Description	Unit-wise area
		(m ²)
1.	FAR Permissible as per By-laws	35,762.01
2.	FAR Achieved	29,181.08
3.	Ground Coverage Permissible (35%)	5,006.86
4.	Ground Coverage Achieved	2,482.82
5.	Green Area	3,809.85
6.	Road Area / Paved Area	4,496.63
7.	Open Parking Area	3,515.50
8.	Total Car Parking	272
9.	Total Scooter Parking	239
10.	No. of Floors	Half Stilt + 13 Floors

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11.	Height of Building	41.75 m			
	Total Area of Units	2 BHK + 2 Toilet	3 BHK + 2 Toilet	3 BHK + 2 Toilet	239 Units
		80 Units	135 Units	24 Units	

That the Divisional Forest Officer, Jamshedpur vide its letter no. 3042 dated 12.09.18 reported the distance of the proposed sites as 200 mtrs, whereas vide its letter no. 3342 dated 12.10.18, the said distance was reported as 775 mtrs - which is quite contradictory. Thus the DFO, Jamshedpur was requested vide SEAC letter no. 05 dated 04.01.19 to clarify the contradictory distance, with a copy to RCCF / CF, Jamshedpur / CCF, Wildlife, Jharkhand and DFO, Saraikela / Dalma Sanctuary. The report from the DFO, Saraikela vide its letter no. 41 dated 07.01.19 stating distance as 450 mtr was received. However, report from DFO, Jamshedpur and Dalma has not been so far received. The PP has been asked to submit the said requisite report from DFO, Jamshedpur and Dalma.

Once the PP provides the information, SEAC will examine the case.

ii. **Stone Mine Project of M/s Radha Krishna Jaiswal at Vill.- Leungdih, Chandil, Saraikela-Kharsawan (23.50 Acre)**

The coordinator of the consultant was not present though the PP appeared. As such this proposal was deliberated in the next meeting.

C. Projects considered for recommendation to SEIAA for consideration of grant of ToR for Building Projects.

1. **Proposed Convention Centre Building Construction Project of Jharkhand Urban Infrastructure Development Company Ltd (JUIDCO) at Ranchi Smart City, HEC Campus, Ranchi.**

The salient feature of project is given in table given below :

Name of the project	Proposed Convention Centre Building Construction Project of Jharkhand Urban Infrastructure Development Company Ltd (JUIDCO) at Ranchi Smart City, HEC Campus, Ranchi		
Name of applicant	Sri S.K. Sahu (Project Director)		
Category of the project	8 (a)		
Project location	Mauza – Latma, Block – Namkum, Dist.- Ranchi, Khata no. – 141 & 31, Plot no. – 1185 (P), 1187 (P), 1188 (P), 1190 (P), 1191 (P), 1193 (F), 1194 (F), 1195 (P), 1200 (F), 1292 (P), 1293 (P), 1294 (P), 1295 (P), 1297 (P), 1298 (P), 1299 (P) & 1300 (P)		
Total land area	6.91 Acres		
Total plot area	27,310 Sq.m.		
Total built up area	72,523.5 Sq.m.		
	No. of floors	Built up area (Sq. m)	No. of users
	Basement 2	23,307.5	Parking and

Block wise built up area			services
	Basement 1	23,307.5	Parking and services
	Ground floor	12,444	Convention Hall, Cafeteria, Meeting Room and Office
	1 st Floor	7285.50	Meeting Room and Auditorium
	2 nd Floor	6179	Meeting Room, Office and Food Court
	Total	72,523.5	As above
New / Expansion / Modernization	New project		
Nearest Airport	Birsamunda Airport – 3.0 KM		
Maximum Height of the Building	23 m above ground level.		
Water requirement	Construction Phase	During Operation Phase	
	Drinking water for labour & staff = 6-7 KLD by water tankers. By water tankers : 90-95 KLD (Depending upon the activity)	Source : Ground water & Treated Waste Water Fresh Water (Domestic) : 200 KLD Recycle water (Flushing) : 73 KLD	
	Total water demand at operation stage will be 273 KLD.		
Power requirement	Source : JSEB Construction Phase : 40 KVA Operation Phase : 2765 KVA For D.G. Sets : 2x1500 KVA		

The representative of the project proponent and their consultant M/s Pollution & Ecology Control Services have participated in the meeting.

The proponent has initiated the project work without prior approval of environmental clearance and as such the committee after detailed deliberation the proposal in the terms of the provisions of the MoEF&CC notification S.O no. 804 (E), dated 14.03.2017, confirmed the case to be violation of the Environment (Protection) Act, 1986 and recommended for the issue of specific & standard terms of reference and to conduct the public hearing for undertaking EIA and Assessment of environment Quality damage cost & prepare EMP.

The PP in the light of violation of E (P) Act, will submit an "Undertaking" for complete suspension of project work (prohibited activity) till EC be granted by SEIAA.

The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted EC.

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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 07th 08th and 09th January, 2019 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study.

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.
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.

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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, ~~and further no consent to operate to be issued till the project is granted EC.~~
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. 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.
10. 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.

2. Proposed Civic Tower Building Construction Project of Jharkhand Urban Infrastructure Development Company Ltd (JUIDCO) at Ranchi Smart City, HEC Campus, Ranchi.

The salient feature of project is given in table given below :

Name of the project	Proposed Civic Tower Building Construction Project of Jharkhand Urban Infrastructure Development Company Ltd (JUIDCO) at Ranchi Smart City, HEC Campus, Ranchi.
Name of applicant	Sri S.K. Sahu (Project Director)
Category of the project	8 (a)
Project location	Mauza – Latma, Block – Namkum, Dist.- Ranchi, Khata no. – 141 & 31, Plot no. – 1184 (P,) 1185 (P), 1186 (P), 1294 (P),

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	1299 (P), 1300 (P), 1301 (P), 1302 (P), 1305 (P), 1306 (P), 1308 (P), 1309 (F), 1310 (P), 1311 (P), 1312 (F), 1313 (F), 1314 (F), 1315 (P), 1325 (P), 1326 (P) & 1344 (P)		
Total land area	6.75 Acres		
Total plot area	12,480 Sq.m.		
Total built up area after expansion	40,469 Sq.m.		
Proposed construction area	45,469 Sq.m.		
Block wise built up area	No. of floors	Built up area (Sq. m)	No. of users
	Basement 2	9735.75	Parking and services
	Basement 1	9735.75	Parking and services
	Ground floor, 1 st and 2 nd Floor	2632.50 each	Shops & Food court
	3 rd Floor	1770	Office space
	4 th Floor	1374	Office space
	5 th -10 th Floor	1361 each	Office space
	11 th - 15 th Floor	1358 each	Office space
	Total	45,469	As above
New / Expansion / Modernization	New project		
Nearest Airport	Birsamunda Airport – 3.0 KM		
Maximum Height of the Building	70 m above ground level.		
Water requirement	Construction Phase	During Operation Phase	
	Drinking water for labour & staff = 3-5 KLD by water tankers. By water tankers : 60-70 KLD (Depending upon the activity)	Source : Ground water & Treated Waste Water Fresh Water (Domestic) : 201 KLD Recycle water (Flushing) : 65 KLD	
	Total water demand at operation stage will be 266 KLD.		
Power requirement	Source : JSEB Construction Phase : 40 KVA Operation Phase : 2080 KVA For D.G. Sets : 2x1000 KVA		

The representative of the project proponent and their consultant M/s Pollution & Ecology Control Services have participated in the meeting.

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The proponent has initiated the project work without prior approval of environmental clearance and as such the committee after detailed deliberation the proposal in the terms of the provisions of the MoEF&CC notification S.O no. 804 (E), dated 14.03.2017, confirmed the case to be violation of the Environment (Protection) Act, 1986 and recommended for the issue of specific & standard terms of reference and to conduct the public hearing for undertaking EIA and Assessment of environment Quality damage cost & prepare EMP.

The PP in the light of violation of E (P) Act, will submit an "Undertaking" for complete suspension of project work (prohibited activity) till EC be granted by SEIAA.

The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, ~~and further no consent to operate to be issued till the project is granted EC.~~

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 07th 08th and 09th January, 2019 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study.

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.

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16. Examine the details of transport of materials for construction which should include source and availability.
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, ~~and further no consent to operate to be issued till the project is granted EC.~~ D
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. 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.
10. 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.

3. Ravindra Bhawan Building Construction Project of Jharkhand Urban Infrastructure Development Company Ltd (JUIDCO) at Kutchery Chowk, Opposite Jaipal Singh Stadium, Ranchi.

The salient feature of project is given in table given below :

Name of the project	Ravindra Bhawan Building Construction Project of Jharkhand Urban Infrastructure Development Company Ltd (JUIDCO) at Kutchery Chowk, Opposite Jaipal Singh Stadium, Ranchi.		
Name of applicant	Sri S.K. Sahu (Project Director)		
Category of the project	8 (a)		
Project location	Village – Kutchery Chowk, Tehsil – Ratu, Dist.- Ranchi, Plot no. – 781, 783, 784, 786 & 847		
Total land area	2.96 Acres		
Total plot area	12,451 Sq.m.		
Total built up area after expansion	34,624 Sq.m .		
Proposed construction area	34,624 Sq.m.		
Block wise built up area	No. of floors	Built up area (Sq. m)	No. of users
	Basement 1	10,450	Parking and services
	Basement 2	10,450	Parking and services
	Ground floor	6060.5	Auditorium, community hall, shop & food court
	1 st Floor	2970	Meeting room, guest room & library
	2 nd Floor	3075	Auditorium, Balcony -1, guest room & Gym
	3 rd Floor	1618.5	Auditorium, Balcony -2 & guest room
	Total	34,624	As above
	New / Expansion / Modernization	New project	
Nearest Airport	Birsu Munda Airport – 5.5 KM		
Maximum Height of the Building	33.90 m above ground level.		
	Construction Phase	During Operation Phase	

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Mr. S.K. Sahu

S.K. Sahu

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Water requirement	Source : Tanker water for construction activity and Ground Water for drinking and domestic use. For domestic & drinking purpose to construction workers = 3-5 KLD For construction activity = 60-70 KLD	Source : Municipal Water for drinking and domestic use and recycled water from STP for flushing & gardening purpose. Common Sewage Treatment Plant of 100 KLD capacity is proposed for layout.
	Total water demand at operation stage will be 137 m³. (Fresh Water 47 m³ and Treated waste Water : 90 m³)	
Power requirement	Source : JSEB Construction Phase : 40 KVA Operation Phase : 1781 KW (connected load – 2664 KW & Demand load 1781 KW) For D.G. Sets : 2x1000 KVA	

The PP was asked and again reminded to submit the requisite CO / DFO certificate.

The representative of the project proponent and their consultant M/s Pollution & Ecology Control Services have participated in the meeting.

The proponent has initiated the project work without prior approval of environmental clearance and as such the committee after detailed deliberation the proposal in the terms of the provisions of the MoEF&CC notification S.O no. 804 (E), dated 14.03.2017, confirmed the case to be violation of the Environment (Protection) Act, 1986 and recommended for the issue of specific & standard terms of reference and to conduct the public hearing for undertaking EIA and Assessment of environment Quality damage cost & prepare EMP.

The PP in the light of violation of E (P) Act, will submit an "Undertaking" for complete suspension of project work (prohibited activity) till EC be granted by SEIAA.

SEIAA is requested to ask the State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.

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 07th 08th and 09th January, 2019 the Committee recommends issuing of **conditional** (regarding CO / DFO certificate) TORs for consideration of SEIAA for undertaking detailed EIA / EMP study.

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.

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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.
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, ~~and further no consent to operate to be issued till the project is granted EC.~~
2. Study traffic density & prepare Traffic management action plan.
3. Sewage treatment plan, sewage disposal system.
4. 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.
5. CO certificate regarding class of land (whether recorded as Jangle-Jhari or not)

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6. DFO certificate regarding minimum distance from forest.

7. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
8. 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.
9. 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.
10. 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.
11. 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
12. 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.
13. 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.

D. Projects considered for recommendation to SEIAA for consideration of grant of ToR for Minor Minerals.

1. **Idpe (Gadai Bhatta) Stone Mine of Sri Ramesh Kumar Dokania at Village- Idpe (Gadai Bhatta), Ranga, Sahibganj, (2.90385 Ha).**

This is a Stone Mining Project for having an area of 2.90385 Ha [Khata No. 05, Plot No.- 07 (P) & Khata No. 08, Plot No.- 37 (P) & 39].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs1.34Crore and a provision of Rs 7.10 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 11,67,386 t

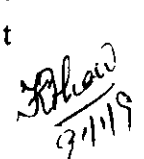
Year-wise Production as per Approved Mining Plan Report for five years is as follows

1st Year : 1,20,026 t
2nd Year : 1,20,227 t
3rd Year : 1,20,015 t

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4 th Year	:	1,20,029 t
5 th Year	:	1,20,020 t

The daily production as per Form I is 400 tonnes.

DFO, Sahibganj vide Memo no. 1027, dated 01.07.16 certified that project site is not within 265 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Sisai vide letter no. 178, dated 23.05.17 has mentioned / certified the plot no. of the project site is not recorded as "Jangle Jhari".

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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.

2. Belpahari Stone Mines of M/s Guru Stone Product at Vill. Belpahari & Suraidih, Hiranpur, Pakur (7.34 Ha).

This is a Stone Mining Project for having an area of 7.34 Ha [Khata No. 01, 03, 14 to 16, 50, 31, 34, 25, Plot No. – 285 to 290, 353 to 357, 340, 341, 138, 139, 428 & 429].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc in view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 81.9 Lakh and a provision of Rs 2.93 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

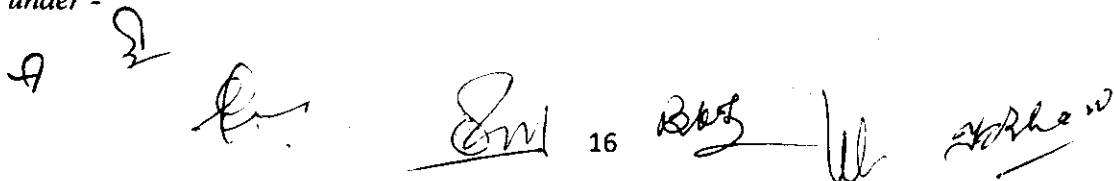
Mineable Proved Reserve	:	36,50,200 t
Mineable Probable Reserve	:	1,32,420 t

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

1 st Year	:	3,33,829 t
2 nd Year	:	3,33,713 t
3 rd Year	:	3,32,357 t
4 th Year	:	3,33,015 t
5 th Year	:	3,42,683 t

The daily production as per Form I is 1142 tonnes.

The proposal was presented in SEAC on 23-24.07.18 in which information was sought as under -

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CO certificate is still erroneous, as it is not clearly mentioned whether the site plots are recorded as Jangal Jhari or not.

The document related to the above mentioned discrepancy has been submitted and found to be satisfactory.

PP has submitted certificates from DMO (Letter No.-1157, Dated- 18.05.2017), DFO (Letter No.- 668, Dated- 07.05.2016) and CO (Memo No.- 579, Dated- 12.11.2018).

DFO, Pakur vide letter no. 668, dated - 07.05.16 certified that project site is not within 250 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Hiranpur vide Memo no. 579, dated - 12.11.18 has mentioned / certified the plot no. of the project site is not recorded as "Jangle Jhari".

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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.

3. Gangupara Bedo Stone Mine of Sri Mainul Ansari at Village- Gangupara Bedo, Pathna, Sahibganj, (2.025 Ha)

This is a Stone Mining Project for having an area of 2.025 Ha [Khata No. 11, Plot No.- 09 (P) & 18 (P)]. The lease was valid w.e.f. 07.12.2007 for a period of 10 years.

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs84.80Lakh and a provision of Rs5.90 Lakhs will be kept for Environment management.

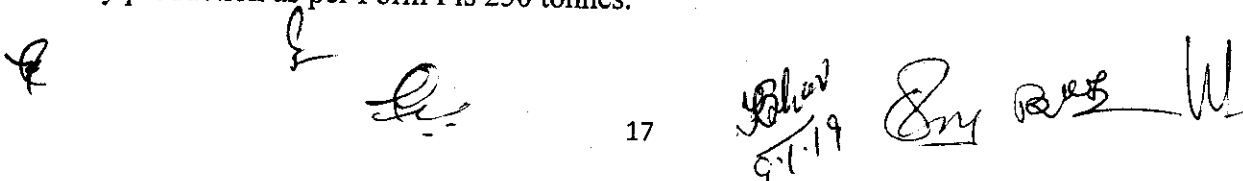
The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 7,31,962 t

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

1 st Year	:	75,163 t
2 nd Year	:	74,496 t
3 rd Year	:	75,114 t
4 th Year	:	75,033 t
5 th Year	:	75,055 t

The daily production as per Form I is 250 tonnes.



DFO, Sahibganj vide Memo no. 1612, dated - 05.11.16 certified that project site is not within 190 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Patna vide letter no. 173, dated - 23.05.17 has mentioned / certified the plot no. of the project site is not recorded as "Jangle Jhari".

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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.

4. Chapandey Stone Mine of M/s Maa Jagdamba Stone Works at Village- Chapandey 10 & Gangupada 11, Thana- Ranga, Dist.- Sahibganj, (6.682 Ha).

This is a Stone Mining Project for having an area of 6.682 Ha [Chapandey 10 J.B. No. 11, Plot 211, J.B. No. 13, Plot 212 to 217, J.B. No. 25, Plot 218, 221, J.B. No. 36, Plot 225, Gangupada Bedo 11 J.B. No. 09, Plot 19 (P), 23 (P) & 24 (P)]. The lease was valid w.e.f. 26.05.2008 to 25.05.2018.

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 60.00 Lakhs and a provision of Rs 2.50 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	35,28,465 t
Mineable Probable Reserve	:	18,300, t

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

1 st Year	:	3,54,717 t
2 nd Year	:	3,54,642 t
3 rd Year	:	3,55,290 t
4 th Year	:	3,54,594 t
5 th Year	:	3,54,390 t

The daily production as per Form I is 1184 tonnes.

DFO, Sahibganj vide letter no. 1674, dated - 16.10.14 certified that project site is not within 225 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Hiranpur vide Memo no. 207, dated - 21.06.17 has mentioned / certified the plot no. of the project site is not recorded as "Jangle Jhari".

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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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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.

5. Patnibona Stone Mine of M/s Astha Stone Works at Village- Patnibona, P.O.- Bakudih, Tehsil- Taljhari, Dist.- Sahibganj, (6.07 Ha).

This is a Stone Mining Project for having an area of 6.07 Ha [Khata No. 05, Plot No.- 39 & 40, Khata No. 19, Plot No.- 43, Khata No. 32, Plot No.- 44, Khata No. 20, Plot No.- 45, Khata No. 27, Plot No.- 46, Khata No. 11, Plot No.- 47, 55 & 56, Khata No. 16, Plot No.- 48 & 54, Khata No. 07, Plot No.- 52, 59, 60 (P) & 61, Khata No. 08, Plot No.- 53 & Khata No.- 13, Plot No. 62]. The lease was valid w.e.f. 04.08.2009 for a period of 07 years.

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs1.22Crore and a provision of Rs 7.25 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	41,74,230 t
Mineable Probable Reserve	:	11,745 t

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

1 st Year	:	2,99,149 t
2 nd Year	:	3,00,019 t
3 rd Year	:	3,00,002 t
4 th Year	:	3,00,094 t
5 th Year	:	3,00,083 t

The daily production as per Form I is 1000 tonnes.

DFO, Sahibganj vide letter no. 1669, dated - 16.10.14 certified that project site is not within 260 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Taljhari vide letter no. 298, dated - 17.06.17 has mentioned / certified the plot no. of the project site is not recorded as "Jangle Jhari".

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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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. Bekchuri Stone Mine of M/s Swastik Traders [Sri Sudip Kumar dey (Partner)] at Villag Bekchuri, P.O & P.S- Kayanchak & Taljhari, Dist.- Sahibganj, (6.89 Ha).

This is a Stone Mining Project for having an area of 6.89 Ha [Khata No. 03 & 07, Plot No. - 04 (P), 18 (P) & 08 (P)].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 40.20 Lakh and a provision of Rs 8.93 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 50,52,807 t

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

1 st Year	:	2,18,916 t
2 nd Year	:	2,10,195 t
3 rd Year	:	3,05,721 t
4 th Year	:	4,18,203 t
5 th Year	:	2,56,297 t

The daily production as per Form I is 1394 tonnes.

DFO, Sahibganj vide memo no. 1187, dated - 16.06.17 certified that project site is not within 380 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Taljhari vide letter no. 164, dated - 11.04.17 has mentioned / certified the plot no. of the project site is not recorded as "Jangle Jhari".

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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.

7. Olmunda Sand Mine in the River Bed of Koel River of Sri Shamim Khan at Vill.- Olmunda, Tehsil & P.S- Sisai, Dist.- Gumla (6.075 Ha).

This is a Sand Mining Project with an area of 6.075 Ha [Khata No. 142, Plot No.- 1739 (P) & 2729 (P).

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The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 64.50 Lakh and a provision of Rs 3.50 Lakh has been indicated for Environment management.

The proposed estimated mineable reserve is 1,10,403 cum and annual production capacity as per mine plan has been indicated as 1,08,000 cum per annum.

PP has submitted certificates from CO (Letter No.-44, dated- 17/01/2017), DFO (Letter No.- 1855, dated- 05/07/2018) and DMO (Memo No.- 1348, dated- 23/08/2017).

DFO, Gumla vide letter no. 1855, dated 05.07.18 certified that project site is not within 280 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Sisai vide letter no. 44, dated 17.01.17 has mentioned / certified the plot no. of the project site is River and not recorded as "Jangle Jhari".

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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.

8. Olmunda Sand Mine in the River Bed of Koel River of Sri Shamim Khan at Vill.- Olmunda, Tehsil & P.S- Sisai, Dist.- Gumla (5.873 Ha)

This is a Sand Mining Project for having an area of 5.873 Ha [Khata No. 142, Plot No.- 1738 (P) & 1739 (P).

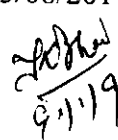
The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 51.85 Lakh and a provision of Rs 3.50 Lakh has been indicated for Environment management.

The proposed estimated mineable reserve is 93,800 cum and annual production capacity as per mine plan has been indicated as 93,375 cum per annum.

PP has submitted certificates from CO (Letter No.-43, dated- 17/01/2017), DFO (Letter No.- 1854, dated- 05/07/2018) and DMO (Memo No.- 1349, dated- 23/08/2017).

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DFO, Gumla vide letter no. 1854, dated 05.07.18 certified that project site is not within 260 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Sisai vide letter no. 43, dated 17.01.17 has mentioned / certified the plot no. of the project site is River and not recorded as "Jangle Jhari".

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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.

9. Aseahar Stone Deposit of M/s Reyaz Ahmad Khan at Village –Aseahar, Panki Palamu, (5.848 Ha).

This is a Stone Mining Project having an area of 5.848 Ha [Khata No.-117, Plot No.-2159]. The lease was valid w.e.f. 02.02.2016 for a period of 10 years.

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 74.00 Lakh and a provision of Rs 4.82 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	27,86,459 t
Mineable Probable Reserve	:	14,500 t

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

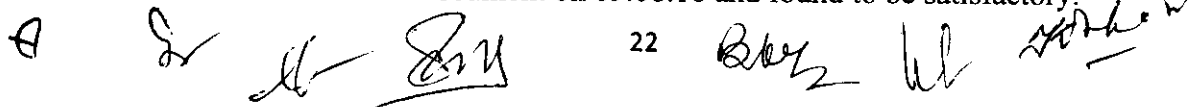
1 st Year	:	2,80,639 t
2 nd Year	:	2,80,027 t
3 rd Year	:	2,80,123 t
4 th Year	:	2,80,497 t
5 th Year	:	2,80,273 t

The daily production as per Form-I is 935 tonnes.

PP has submitted certificates from DMO (Memo No.-468, Dated- 28.04.17), DFO (Letter no. 686, dated – 20.03.2014, Letter No.-3752, Dated- 22.07.17) and CO (Memo no. 659, Dated- 10.08.18). In the earlier presentation following discrepancy was identified and the committee advised to submit accordingly -

"PP was asked to submit proper CO certificate regarding class of land (whether recorded as Jangle Jhari or not)."

The PP has submitted the above document on 09.08.18 and found to be satisfactory.

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DFO, Medininagar vide letter no. 3752, dated 22.07.17 certified that project site is not within 02 km from notified forest and his vide letter no. 686 dated 20.03.14 certified that project site not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Panki vide Memo no. 659, dated 10.08.18 has mentioned / certified the plot no. of the project site is not recorded as "Jangle Jhari".

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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.

10. Ayodhya – Kolhua Sand Ghat in the river bed of North Koel River of M/s JSMDL Ltd at Vill.- Ayodhya - Kolhua, Tehsil - Chainpur, Dist. - Palamau (8.09 Ha).

This is a Sand Mining Project with an area of 8.09 Ha [Khata No. - 77, Plot No.- 504 (P)].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 36.90 Lakh and a provision of Rs 6.60 Lakh has been indicated for Environment management.


The correctness of the Co-ordinate of the Boundary of the sand deposit could not be shown on the geological map of the area as the DSR was not available in the district. The proponent tried to show the co-ordinate of the central point (location) of the deposit on a sketch map, which does not satisfy the requisite information about the location of the sand deposit.

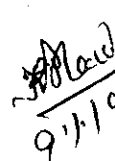

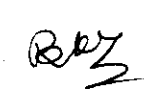

There was difference of opinion between proponent and the consultant regarding the method of sand mining. The consultant was of the opinion that the sand mining should be done manually as per the recommendations of the Govt. of Jharkhand for the sustainable sand mining Guideline, 2016 of MoEF&CC whereas the proponent was of the opinion of semi-mechanized / mechanized mining. They should have decided it before coming for presentation at SEAC.

The proposed estimated mineable reserve is 1,26,812 cum and annual production capacity as per Form-I has been indicated as 1,26,812 cum per annum.

PP has submitted certificates from CO (Letter No.- 313, dated- 11/04/2018), DFO (Letter No.- 4057, dated- 25/08/2018) and DMO (Memo No.- 866, dated- 16/07/2018).

DFO, Medininagar vide letter no. 4057, dated - 25.08.18 certified that project site is not within 700 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Chainpur vide letter no. 313, dated - 11.04.18 has mentioned / certified the plot no. of the project site is River and not recorded as "Jangle Jhari".

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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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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.

11. Dewariya Sand Ghat in the river bed of Lilajan River of M/s JSMDC Ltd at Vill.- Dewariya, Tehsil - Hunterganj, Dist. - Chatra (10.92 Ha).

This is a Sand Mining Project with an area of 10.92 Ha [Khata No. - 44, Plot No.- 265].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 33.50 Lakh and a provision of Rs 7.70 Lakh has been indicated for Environment management.

The correctness of the Co-ordinate of the Boundary of the sand deposit could not be shown on the geological map of the area as the DSR was not available in the district. The proponent tried to show the co-ordinate of the central point (location) of the deposit on a sketch map, which does not satisfy the requisite information about the location of the sand deposit.

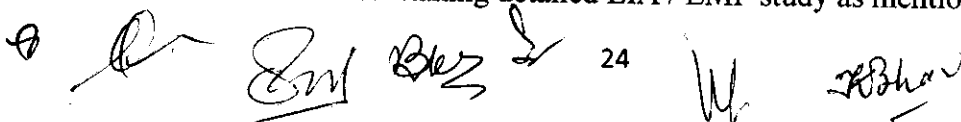
There was difference of opinion between proponent and the consultant regarding the method of sand mining. The consultant was of the opinion that the sand mining should be done manually as per the recommendations of the Govt. of Jharkhand for the sustainable sand mining Guideline, 2016 of MoEF&CC whereas the proponent was of the opinion of semi-mechanized / mechanized mining. They should have decided it before coming for presentation at SEAC.

The proposed estimated mineable reserve is 1,26,812 cum and annual production capacity as per Form-I has been indicated as 1,65,000 cum per annum.

PP has submitted certificates from CO (Letter No.- 672, dated- 07/09/2018), DFO (Letter No.- 2176, dated- 12/07/2018) and DMO (Memo No.- 1230, dated- 03/08/2018).

DFO, Chatra North vide letter no. 2176, dated - 12.07.18 certified that project site is not within 295 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Chainpur vide letter no. 672, dated - 07.09.18 has mentioned / certified the plot no. of the project site is not recorded as "Jangle Jhari".

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.

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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..

12. Jonr Sand Mining Project of M/s JSMDL Ltd at Mouza- Jonr, Daltonganj (Medininagar), Palamau (5.66 Ha).

This is a Sand Mining Project with an area of 5.66 Ha [Khata No. - 44, Plot No.- New 2695 (P)].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 28.05 Lakh and a provision of Rs 6.76 Lakh has been indicated for Environment management.

The correctness of the Co-ordinate of the Boundary of the sand deposit could not be shown on the geological map of the area as the DSR was not available in the district. The proponent tried to show the co-ordinate of the central point (location) of the deposit on a sketch map, which does not satisfy the requisite information about the location of the sand deposit.

There was difference of opinion between proponent and the consultant regarding the method of sand mining. The consultant was of the opinion that the sand mining should be done manually as per the recommendations of the Govt. of Jharkhand for the sustainable sand mining Guideline, 2016 of MoEF&CC whereas the proponent was of the opinion of semi-mechanized / mechanized mining. They should have decided it before coming for presentation at SEAC.

The proposed estimated mineable reserve is 1,69,830 cum and annual production capacity as per Form-I has been indicated as 1,35,864 cum per annum.

PP has submitted certificates from CO (Letter No.- 220, dated- 10/05/2018), DFO (Letter No.- 1865, dated- 23/04/2018) and DMO (Memo No.- 891, dated- 19/07/2018).

DFO, Medininagar vide letter no. 1865, dated - 23.04.18 certified that project site is not within 6000 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary.

In the earlier presentation following discrepancy was identified and the committee advised to submit accordingly -

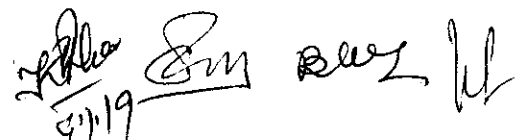
"CO certificate regarding class of land (whether recorded as Jungle Jhari or not) & Annexure I & II as per SEIAA guideline.."

The PP has submitted the above document on 26.11.18 and found to be satisfactory.

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure I**.







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.

13. Chhota Panchrukhe Stone Deposit of M/S Panchrukhi Stone Works at Village- Chhota Panchrukhe, Sahibganj (4.72 Ha)

This is a Stone Mining Project for having an area of 4.72 Ha [Khata no. 13, Plot no. 110, Khata no. 44, Plot no. 119 (P), Khata no. 31, Plot no. 111, Khata no. 11, Plot no. 112, Khata no. 33, Plot no. 117].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 80.00 Lakhs and a provision of Rs 4.81 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineral Reserve : 17,03,754 t

Probable Mineral Reserve : 18,240 t

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

1 st Year	:	1,72,188 t
2 nd Year	:	1,72,197 t
3 rd Year	:	1,72,209 t
4 th Year	:	1,72,203 t
5 th Year	:	1,72,215 t

The daily production as per Form I is 574 tonnes.

DFO, Sahibganj vide Memo no. 1028, dated - 01.07.16 certified that project site is not within 295 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary.

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure II**.

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..

14. Mundali Stone Deposit M/S Jai Ram Pathar Udyog at Village- Mundali, Thana-Mirzachowki, Dist.-Sahibganj (3.61 Ha).

This is a Stone Mining Project for having an area of 3.61 Ha [J.B. No. 06, Plot No. - 52, J.B. No. 18, Plot No. 54 (P)].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic

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development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs60.00Lakhs and a provision of Rs 3.65 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 15,24,060 t

Mineable Probable Reserve : 28,440 t

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

1st Year : 1,55,211 t

2nd Year : 1,55,181 t

3rd Year : 1,55,202 t

4th Year : 1,55,289 t

5th Year : 1,55,235 t

The daily production as per Form I is 518 tonnes.

PP has submitted certificates from DMO (Letter No.-524, Dated- 09.02.2016), DFO (Letter No.- 116, Dated- 20.01.2016) and CO (Letter No.- 177, Dated- 05.05.2017).

In the earlier presentation following discrepancy was identified and the committee advised to submit accordingly –

“The presentation of the project was made. Khata no. and Plot nos were different in certificates issued by different local authorities. The proponent was suggested to submit corrected papers. The EMP cost does not cover provisions for measures such as garland drains / Rain water harvesting for channelizing of surface water. Section of plot showing highest contour & lowest contour to be included showing garland drain arrangement. “

The PP has submitted the above document on 24.10.17 and found to be satisfactory.

DFO, Sahibganj vide Memo no. 116, dated -20.01.16 certified that project site is not within 510 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary.

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure II**.

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.

15. Marikuti Stone Mine of M/s Tamanna Stone Works at Village- Marikuti, P.O.- Mirzachouki, Tehsil- Mandro, Dist.- Sahibganj, (5.39 Ha).

This is a Stone Mining Project having an area of 5.39 Ha [Khata No. 05, Plot No.- 145 (P), Khata No. 11, Plot No.- 143 (P), Khata No. 16, Plot No.- 20 (P), 166 (P) & 167, Khata No. 22, Plot No.- 144, Khata No. 24, Plot No.- 83, Khata No. 26, Plot No.- 19 (P), Khata No. 27, Plot No.- 164 (P)].

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The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 1.35 Crore and a provision of Rs 7.45 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 35,64,300 t

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

1 st Year	:	3,60,007 t
2 nd Year	:	3,60,048 t
3 rd Year	:	3,60,077 t
4 th Year	:	3,60,042 t
5 th Year	:	3,60,042 t

The daily production as per Form I is 1200 tonnes.

DFO, Sahibganj vide memo no. 397, dated - 18.03.16 certified that project site is not within 350 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary.

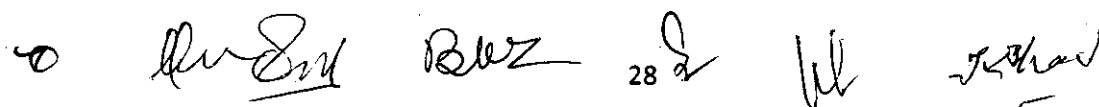
Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 07th 08th and 09th January, 2019 the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 for issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure II**.

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.

16. Pusre & Roro Stone Mine of M/s Jai Bharat Construction Company at Vill- Pusre & Roro, Taljhari, Sahibganj, (4.98 Ha).

This is a Stone Mining Project for having an area of 4.98 Ha [Pusre Khata No. 29, Plot No.- 74 (P), Khata No. 17, Plot No.- 79, Khata No. 27, Plot No.- 113 (P), 116 (P) & 77, Khata No. 06, Plot No.- 75, 76, 78 & 81 (P), Roro Khata No. 03, Plot No.- 03 (P), 04 & 05, Khata No. 04, Plot No.- 06 (P), Khata No. 05, Plot No.- 02].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 1.43 Crore and a provision of Rs 7.35 Lakhs will be kept for Environment management.

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The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 49,60,089 t

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

1 st Year	:	4,80,001 t
2 nd Year	:	4,80,060 t
3 rd Year	:	4,80,011 t
4 th Year	:	4,80,114 t
5 th Year	:	4,80,025 t

The daily production as per Form I is 1600 tonnes.

DFO, Sahibganj vide memo no. 86, dated - 17.01.17 certified that project site is not within 400 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary.

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure II**.

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.

17. Deshpokharia & Amjhar Stone Mine of M/s Black Stone Works at Village- Deshpokharia & Amjhar, P.O.- Mirzachouki, Tehsil- Mandro, Dist.- Sahibganj, (6.85 Ha).

This is a Stone Mining Project having an area of 6.85 Ha [**Amjhor** Khata No. 09, Plot No.- 235, Khata No. 12, Plot No.- 225 Khata No. 13, Plot No.- 215 & 226 (P), Khata No. 26, Plot No.- 218 (P), 221 (P) & 222 (P), Khata No. 27, Plot No.- 223 & 224, Khata No. 30, Plot No.- 214 (P) & 236 (P), Khata No. 33, Plot No.- 216 and **Deshpokharia** Khata No. 06, Plot No.- 105 (P) Khata No. 28, Plot No.- 68].

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs1.63 Crore and a provision of Rs 6.90 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 64,49,895 t

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

1 st Year	:	5,65,988 t
2 nd Year	:	5,74,088 t
3 rd Year	:	5,71,860 t
4 th Year	:	5,76,450 t

5th Year : 5,73,075 t

The daily production as per Form I is 1900 tonnes.

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure II**.

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.

18. Sundare Stone Mine of M/s Narayan Stone Works (Shri Ram Saware Tiwari) at Village- Sundare, P.O. & P.S.- Mirzachouki, Dist.- Sahibganj, (6.41 Ha) .

This is a Stone Mining Project for having an area of 6.41 Ha [Khata No.- 25, Plot No.- 102 (P) & 103 (P), Khata No.- 09, Plot No.- 109 & 117, Khata No.- 27, Plot No.- 106, khata No.- 22, Plot No.- 114, Khata No.- 04, Plot No.- 108, Khata No.- 07, Plot No.- 107 (P)]. The committee noted that as per Form I it is a proposal for existing mine lease. The lease was valid w.e.f. 13.01.2011 for a period of 07 years.

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 19.50 Lakh and a provision of Rs 9.25 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve :	11,17,889 t
Mineable Probable Reserve :	7155 t

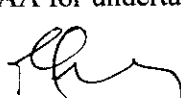
Year-wise Production as per Approved Mining Plan Report for five years is as follows

1 st Year :	1,12,590 t
2 nd Year :	1,12,590 t
3 rd Year :	1,12,520 t
4 th Year :	1,12,504 t
5 th Year :	1,12,506 t

The daily production as per Form I is 375 tonne.

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure II**.

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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.

19. Mundli Stone Mine of Sri Rajesh Kr. Jaiswal at Village- Mundli, P.O. & P.s.-Mirzachouki, Dist.- Sahibganj (5.38 Ha).

This is a Stone Mining Project for having an area of 5.38 Ha [Khata No. 05, Plot No. – 53 (P) & 57 (P) ,Khata No. 18, Plot No. 54 (P)]. The committee noted that as per Form I it is a proposal for renewal of lease. The lease was valid w.e.f. 02.06.2009 to 01.06.2016.

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs44.50Lakhs and a provision of Rs10.50 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	31,42,463t
Mineable Probable Reserve	:	39,960,t

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

1 st Year	:	3,00,289 t
2 nd Year	:	3,00,167 t
3 rd Year	:	3,00,240 t
4 th Year	:	3,00,294 t
5 th Year	:	3,00,127 t

The daily production as per Form I is 1000 tonnes.

DFO, Sahibganj vide letter no. 341, dated - 20.02.15 certified that project site is not within 400 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary.

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure II**.

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.

20. Chatrogoga Stone Mine of M/S Ashirvad Stone Works at Village Chatrogoga, Mandro, Sahibganj. (11.00 Acre).

This is a Stone Mining Project for having an area of 11.00 Acre [Khata No. 07, Plot No. – 45 (P), Khata No. 25, Plot No. 36 (P), Khata No. 23, Plot No. 56 (P)]. The committee noted that as per Form I it is a proposal for renewal of lease. The lease was valid w.e.f. 02.06.2009 to 01.06.2016.

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The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 1.76 Crore and a provision of Rs 7.00 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	17,67,974 t
Mineable Probable Reserve	:	2,79,514 t

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

1 st Year	:	2,04,749 t
2 nd Year	:	2,04,749 t
3 rd Year	:	2,04,749 t
4 th Year	:	2,04,749 t
5 th Year	:	2,04,749 t

The daily production as per Form I is 682 tonnes.

DFO, Sahibganj vide memo no. 357, dated - 15.03.16 certified that project site is not within 460 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary.

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 07th 08th and 09th January, 2019 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 TORs for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure II**.

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.

Note : Sri Y.K. Singh, Member, SEAC has disagreed with the present recommendation with the view that ~~only after~~ ^{without} receipt of valid class of land certificate regarding Jangle Jhari issued by CO, ToR should not be recommended. ^{for print no 13-20}

E. Projects considered for recommendation to SEIAA for consideration of grant of EC.

- Residential Project of Patratu Vidyut Utpadan Nigam Ltd at Vill. Katia, Tehsil – Patratu, Dist. – Ramgarh.**

The salient feature of project is given in table given below :

Name of the project	"Patratu Vidyut Utpadan Nigam Ltd Main Township" Residential Project.
Name of applicant	Sri Bijay Manjul (AGM, PVUNL Patratu)

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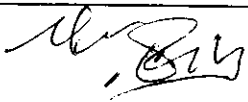
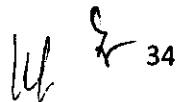

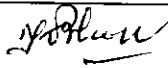
Category of the project	8 (a) Building & Construction Projects			
Project location	Village : Katia, Tehsil : Patratu, Dist.: Ramgarh, Plot no. : 914, 916 to 918, 924 to 931, 933, 934, 947 to 954, 959, 960, 1042 to 1045, 1890, 2272 to 2286, 2288 to 2291 Latitude : 23° 37' 47.55" N Longitude : 85° 16' 43.86" E.			
Total land area	25 Acres			
Total plot area	1,01,175 Sqm.			
Total built up area	59300 Sqm			
Total Proposed Ground Coverage (12.2%)	12,343.35 Sqm			
Proposed FAR	0.586			
Landscape Area (@ (36.6 % or say 37 % of the plot area)	37030.05 sqm			
Parking Area provided (including open parking area)	8875 sqm (710 ECS)			
Area of internal roads, (8.9 % of total area / Paved area (29.8 %))	9019 sqm			
	30146 sqm			
Maximum height of building	30m (with machine room)			
Total no. of Dwelling Units	336 units - residential			
Total no. of shop	7 nos.			
No. of floors	Stilt + 7			
No. of Blocks	7 Residential Blocks, HOP Bungalow, Club, Dispensary, Nursery school, Field Hostel , Guest House Complex etc.			
Total project cost	Total Cost: Rs. 183.99 Crores (Land: Rs. 16.87 Crores + Construction: Rs. 158.73 Crores + EMP: Rs. 5.63 Crores + CER: Rs. 2.76 Crores)			
Built up area details	Type of DU's	Configuration	No. of DU	Built-up area in M ²
	B type	S+7	112/2 blocks	11760
	C type	S+7	168 / 3 blocks	23100
	D type	S+7	56 / 2 blocks	11900
	HOP / HOD	G+1	1	300
	Servant qtrs.	-	1	-

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	Field Hostel	G+4	17	3300
	Guest House complex, Guest House, Club, Multi - Purpose hall	G+3	-	3300
	Shopping complex building, Dispensary, Bank, Post Office, Estate Office, Cafeteria	G+2	-	2200
	Nursery School / Ladies club	G+1	-	2640
	Sub-station	-	-	500
	Switchgear	-	-	200
	Gate complex	-	-	100
	Total	-	-	59300
Nearest Airport / Railway	Ranchi Airport – 45 Km by road from the project site towards S direction. Patratu Railway Station is 5.16 km away from the project site towards NE direction.			
Water Requirement	Total Water Requirement - 526 KLD (Domestic + Flushing + Gardening & others) Total Fresh Water Requirement -233 KLD; Source: water treatment plant of PVUNL, Waste Water Generation: 326 KLD , Treated Waste Water to be reused - 293 KLD, for Flushing, 155 KLD, for Green Belt Development 130 KLD & 8 KLD for General Washing etc.			
STP	Capacity of Sewerage Treatment Plant - 400 KLD (MBBR Type) Treated Waste Water Reuse - 293 KLD Excess Waste Water kept in Buffer tank and Pumped back to TPP for reuse - 130 KLD (during Rainy Season)			
Power Requirement	Maximum Demand Load= 3.5 MW Source:- Supplied by PVUNL Plant of 11 KV source Solar Power - 15 % of the Maximum Demand Load through Solar Street Light, Water heater & other System. Back Up DG Set: 3x 250 KVA & 1x125 KVA silent DG Set with stack height as per CPCB norms. Power source during construction - JVBNL			
Operational Solid Waste Generation and Disposal	Residential waste= 1.092 Ton/day Solid waste disposal - in Integrated Composting Plant and as per Solid Waste Management Rules 2016 Biomedical waste =4 Kg/day Segregation, Storage & Disposal as per Bio-medical Waste Management Rules 2016			

CO Patratu vide letter 1729, dated 04.09.18 (without mentioning plot no.) certified that PTPS site is not recorded as "Jungle Jhari". However, the CO, Patratu vide letter no. 2269, dated 29.11.18 clarified that plot no. 924 & 1890 of the proposed site is "Jungle - Jhari" in nature. These certificates are, thus contradictory. It requires explicit clarification from CO, Patratu.

Some plots of the site, viz plot no. 924 & 1890 are "Jungle Jhari" as per "Khatian" and said site including the plots have been handed over to PTPS by Govt. of Bihar in 18.10.1966, as per CO report dated 29.11.18.

The PP has submitted letter on 08.01.19 enclosing

- i. EC for 3x800 MW STPP granted by MoEF.
- ii. Certificate of land use
- iii. "Undertaking" for compliance of Forest (Conservation Act)
- iv. CE policy

The certificate of land use certifies that the site has been transferred to PTPS in 1966, since then it was used as township for PTPS. The PP has also submitted the photographs of earlier existing township. Thus, it appears that the said site has been under non-forestry use before 1980. The CEO, PVUNL has submitted "Undertaking" for compliance of provisions of F (C) Act, 1980 if required, for the "Jungle Jhari" land.

Based on the presentation made and information provided, the Committee decided that the proposal for **Residential Project of Patratu Vidyut Utpadan Nigam Ltd at Vill. Katia, Tehsil - Patratu, Dist. - Ramgarh** be recommended for consideration of SEIAA for grant of **conditional** (for compliance of F (C) Act, where ^{applicable} EC. The various conditions for grant of EC is enclosed as **Annexure - III**.

F. Projects for which SEAC has sought clarifications from PP.

1. **City Centre Project of M/s Forum Infrastructure Pvt Ltd at Village- Asangi, Adityapur Dist. - Saraikela Kharsawan.**

The proposal was presented in SEAC on 23-25.04.18 in which further informations were sought as under -

1. CO certificate regarding class of land (whether recorded as Jangal Jhari or not)
2. DFO Certificate regarding distance from notified forest / National Park / Sanctuary/ Eco Sensitive Zone / Bio-Diversity Area.
3. In the project proposal source of water is ground water only. The proponent should propose to use surface water also.

The documents related to the discrepancies in the above mentioned papers have been submitted on 22.12.18.

SEAC deliberated the issue of water source and utilization for a proposed city centre of more than 15,000 populations in a small area. This may create water stress in the area. The committee suggests to explore the possibility of any alternate source of water other than ground water to be met for at least 20-30 % requirement. If it is not feasible the project size needs to be cut to small size. The PP agreed to submit the required documents in shortest possible time.

Once the PP provides the information, SEAC will examine the case.

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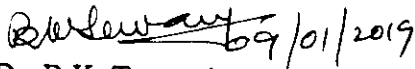
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2. Simariya Stone Deposit of M/s Pawanputra Stone Works at Vill.-Simariya, Jirwabari, Sahibganj, (6.07 Ha).


The committee noted that the project proponent has not attended the meeting. The committee recommended to defer this proposal to the next meeting.

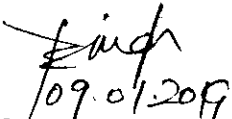
The meeting concluded with thanks to all present.

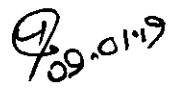

(Dr. B.K. Tewary)
Member

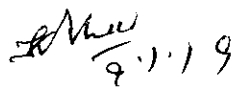

(S.P. Srivastava) 09.01.19
Member


(R.N. Singh)
Member


(Dr. V.P. Sinha)
Member

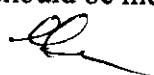

(Y.K. Singh)
Member


(Om Prakash)
Member Secretary

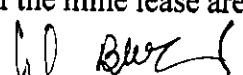

(K.P. Bhawsinka)
Chairman

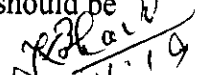
The TORs prescribed for undertaking detailed EIA study are as follows:

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








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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

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

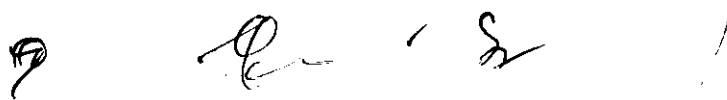
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and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

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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 :-
- Executive Summary of the EIA/EMP Report
 - All documents to be properly referenced with index and continuous page numbering.
 - Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - 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.
 - Where the documents provided are in a language other than English, an English translation should be provided.
 - The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - 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.
 - 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.
 - 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.

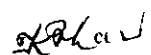
- j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
45. 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.











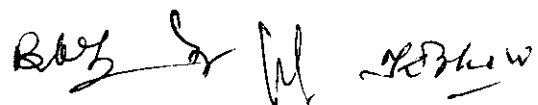
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1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. **CO certificate regarding class of land (recorded as Jangle Jhari or not).**
3. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
4. 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.
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6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.

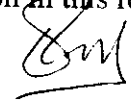
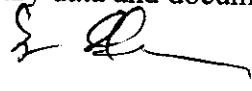
12. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
13. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement 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.
14. 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.
15. 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.
16. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
17. 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.
18. 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.
19. 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.
20. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.

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21. 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).
22. 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.
23. 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.
24. 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.
25. 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.
26. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
27. 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.
28. 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.
29. 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

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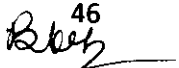


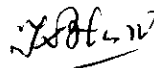


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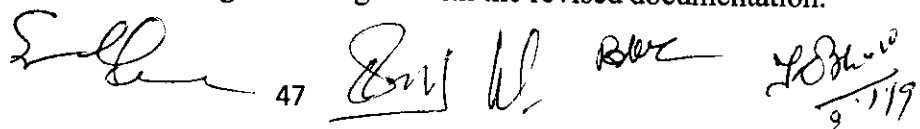
working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working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

30. 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.
31. 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.
32. 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.
33. 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.
34. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
35. 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.
36. 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.
37. 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.
38. 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.

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39. 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.
40. 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.
41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
42. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
43. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
44. 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.
45. Besides the above, the below mentioned general points are also to be followed :-
 - a. Executive Summary of the EIA/EMP Report
 - b. All documents to be properly referenced with index and continuous page numbering.
 - c. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.
 - e. Where the documents provided are in a language other than English, an English translation should be provided.
 - f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF & CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.

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- 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.
46. 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.
47. 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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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 existing structure, if any. Waste recycling plans including top soil should be developed

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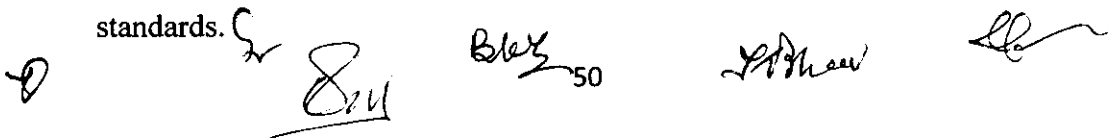
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prior to beginning of demolition and construction activity. The plans should identify wastes to be generated and designate handling, recycling and disposal method to be followed.

- xiv. Disposal of muck including excavated material during construction phase should not create any adverse effects in the neighborhood 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 mitigate 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 Ranchi 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 conform to Environment (Protection) Rules, 1986 prescribed for noise emission standards.

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- 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-peaking 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.

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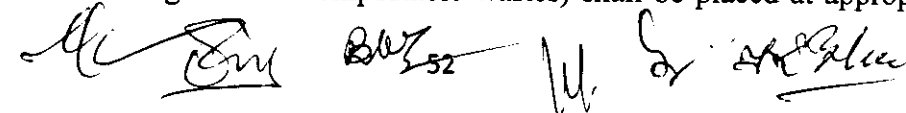
- xxiii. The road drainage shall be designed to enable quick runoff of surface water and prevent water logging.
- xxiv. Adequate provision shall be made to cater the parking needs. Parking spaces standard as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" 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.
- 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

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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.

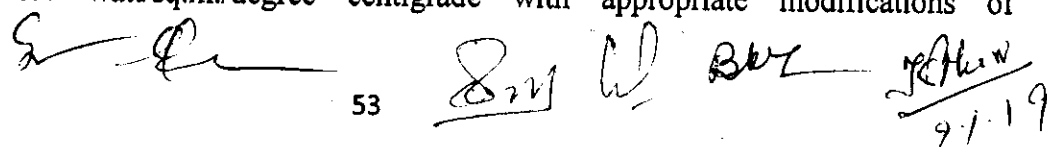
IV. Entire Life of the Project

- 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

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specifications and building technologies. The provisions of National Building Code 2005 shall be strictly followed.

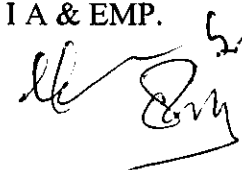
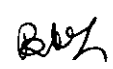


- vi. Street/Corridor lighting shall be energy efficient. The High Pressure Sodium Vapour (HPSV) Lamps & Compact Fluorescent Lamps (CFL) along Building premises shall be provided. High intensity, high mast lights to be installed at few strategic points. Solar energy may be used for outdoor lighting.
- vii. Reduction of hard paving-onsite (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 Godda) 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.

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- 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.


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- 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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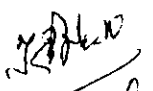
- viii. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be 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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