

MINUTES OF THE 55TH MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 23RD, 24TH AND 25TH APRIL, 2018

The 55th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 23rd, 24th and 25th April, 2018 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 Y.K. Singh - Member
4. Dr. R.V. Singh - Member
5. Sri U.P. Singh - Member
6. Sri Om Prakash, - Member Secretary

Dr. R. N. Singh, Sri M S Bhagwat, Sri S.P. Shriwatava & Dr. V. P Sinha, Member, SEAC could not attend the meeting due to personal reason.

Various projects which were received by SEIAA after the previous SEAC meeting on 27th and 28th March, 2018 and forwarded to SEAC for their technical appraisal came up for discussions. Besides, those Projects which were appraised in SEAC's earlier meetings, in which PP's were asked to provide additional information / clarifications, were also considered for examination / scrutiny, where the Project proponents had submitted replies. Accordingly, the Project proponents were asked to make technical presentation for the appraisal of their project before the committee.

The following salient observations /recommendation were made during the Presentation (Project - wise), as under:-

A. Discussion on matter related to :

1. Compliance of the recommendation of the CAG – regarding.

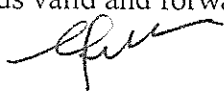
That all the issues with regard to SEIAA letter no. 40, dated 09.03.2018 and letter no. 59, dated 22.03.2018, enclosing the MoEF & CC circular dated 25.10.2017 regarding Compliance of the recommendation of the CAG. The SEAC assures that above recommendation of CAG would be followed in letter & spirit.

2. SEIAA letter no. 76, dated 10.04.18 regarding amendment of approved checklist.

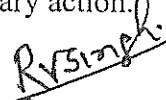
It is expected from SEIAA that they should verify the applied documents like Form-I, PFR and the draft fees & other requisite documents like DFO / CO certificate. Next SEIAA should forward the application to SEAC for technical appraisal pointing it if any discrepancy is found in the documents. Further all the points of checklist be screened by SEAC before / during the technical appraisal of the project.

B. Matter referred by SEIAA

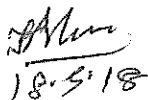
DSR has been submitted for these districts and accordingly the proposals were taken up for discussion. The Proponents & Consultants for these project proposals explained in detail the status of their project proposal in the DSR. The project proposals have been made as per the prospecting area and Geological formation of the district is as per DSR. The project proposals as recommended earlier stands valid and forwarded to SEIAA for necessary action.










18.5.18

1. **Rajbandh Stone Mine of M/s Mandhan Minerals Corporation at Village- Rajbandh, Pakur, (15.07 Ha).**

This is a Stone Mining Project having an area of 15.07 Ha [Khata No.-38, Plot No.- 581 (P)]. The committee noted that as per Form I it is a proposal for existing of mine lease for which PP is seeking EC. The lease was valid w.e.f. 30.06.2010 for a period of 10 years..It is B2 Category of Project - as per MoEF& CC Notification dated 15.01.2016.

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 committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs94.00Lakh and a provision of Rs3.85 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

| | | |
|---------------------------|---|---------------|
| Mineable Proved Reserve | : | 1,38,82,503 t |
| Mineable Probable Reserve | : | 3,62,550 t |

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

| | | |
|----------------------|---|------------|
| 1 st Year | : | 9,00,033 t |
| 2 nd Year | : | 9,00,018 t |
| 3 rd Year | : | 9,00,102 t |
| 4 th Year | : | 9,00,012 t |
| 5 th Year | : | 9,00,033 t |

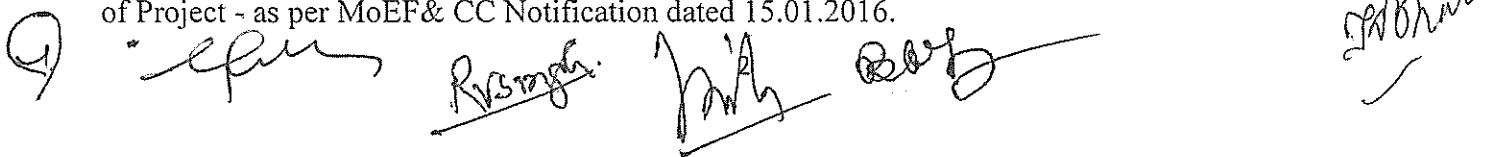
The daily production as per Form-I is 3000 tonnes.

PP has submitted certificates from DMO (Letter No.-1593, Dated- 29.09.15), DFO (Letter No.- 1210, Dated- 10.11.15) and CO (Letter No.- 1024, Dated- 27.11.15).The data was examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for **Rajbandh Stone Mine of M/s Mandhan Minerals Corporation** at Village- Rajbandh, Thana- Pakur, Dist.- Pakur, (15.07 Ha) be recommended for consideration of SEIAA subject to above mentioned observation for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

2. **Golpur Stone Mine Project of M/s Grands Mining at Village : Golpur, Khaksa, Pakuria Mihijam, Pakur (9.31 Ha).**

This is a Stone Mining Project for having an area of 9.31 Ha [Khata No. 56, Plot No.- 693]. The committee noted that as per Form I it is a proposal for expansion of lease for which PP is seeking EC. The lease was valid w.e.f. 06.10.2015 to 05.10.2025 for a period of 10 years. It is B2 Category of Project - as per MoEF& CC Notification dated 15.01.2016.

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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 1.34 Crore and a provision of Rs 9.06 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 51,46,079 t

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

| | | |
|----------------------|---|------------|
| 1 st Year | : | 9,96,300 t |
| 2 nd Year | : | 9,15,300 t |
| 3 rd Year | : | 9,76,860 t |
| 4 th Year | : | 5,52,906 t |
| 5 th Year | : | 4,68,018 t |

The daily production as per Form I is 3321 tonnes.

PP has submitted certificates from DMO (Letter No.-379, Dated- 21.03.15), DFO (Letter No.- 1364, Dated- 05.11.14) and CO (Letter No.- 631, Dated- 06.07.15). The consultant explained and submitted the technical details of the process of mine plan preparation with ~~the~~ DSR. The informations was examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for **Golpur Stone Mine Project of M/s Grands Mining** at Village : Golpur, P.O.- Khaksa, P.S.- Pakuria, Dist.- Pakur (9.31 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

3. Golpur Stone Mine Project of M/s Grands Mining at Village : Golpur, Khaksa, Pakuria, Pakur (5.24 Ha).

This is a Stone Mining Project for having an area of 5.24 Ha [Plot No.- 382 (P)]. The committee noted that as per Form I it is a proposal for new lease for which PP is seeking EC. It is B2 Category of Project - as per MoEF& CC Notification dated 15.01.2016.

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 Rs 7.97 Crore and a provision of Rs 6.34 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 34,95,976 t

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

| | | |
|----------------------|---|------------|
| 1 st Year | : | 3,09,283 t |
| 2 nd Year | : | 3,77,579 t |
| 3 rd Year | : | 3,03,953 t |
| 4 th Year | : | 2,36,803 t |
| 5 th Year | : | 1,75,944 t |

The daily production as per Form I is 936 tonnes.

PP has submitted certificates from DMO (Letter No.-1356, Dated- 20.06.17), DFO (Letter No.- 1831, Dated- 23.12.16) and CO (Letter No.- 500, Dated- 22.10.16). The consultant explained and submitted the technical details of the process of mine plan preparation without DSR. The informations was examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for **Golpur Stone Mine Project** of **M/s Grands Mining** at Village : Golpur, P.O.- Khaksa, P.S.- Pakuria, Dist.- Pakur (5.24 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

4. Golpur Stone Mine Project of M/s Grands Mining at Village : Golpur, Khaksa, Pakuria, Pakur, (7.69 Ha).

This is a Stone Mining Project for having an area of 7.69 Ha [Plot No.- 535 (P)]. The committee noted that as per Form I it is a proposal for new lease for which PP is seeking EC. It is B2 Category of Project - as per MoEF& CC Notification dated 15.01.2016.

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 Rs 9.93 Crore and a provision of Rs 12.73 Lakhs will be kept for Environment management.

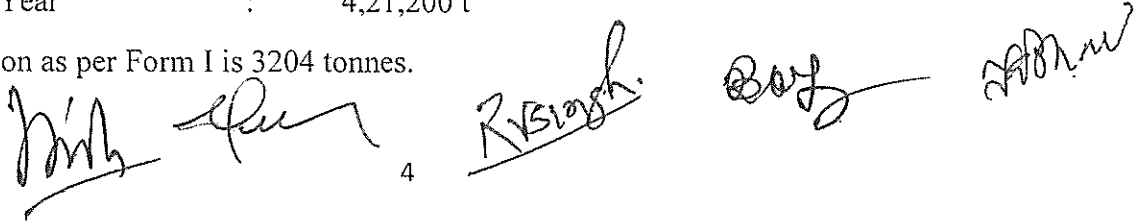
The details of mine capacity as per Approved Mining Plan are

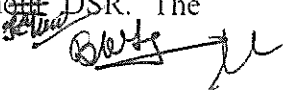
Mineable Proved Reserve : 46,68,030 t

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

| | | |
|----------------------|---|------------|
| 1 st Year | : | 5,27,850 t |
| 2 nd Year | : | 9,61,200 t |
| 3 rd Year | : | 9,18,000 t |
| 4 th Year | : | 8,74,800 t |
| 5 th Year | : | 4,21,200 t |

The daily production as per Form I is 3204 tonnes.



PP has submitted certificates from DMO (Letter No.-1355, Dated- 20.06.17), DFO (Letter No.-1830, Dated- 23.12.16) and CO (Letter No.- 496, Dated- 22.10.16). The consultant explained and submitted the technical details of the process of mine plan preparation without DSR. The informations was examined and found to be satisfactory. 

Based on the presentation made and information provided the Committee decided that the proposal for **Golpur Stone Mine Project of M/s Grands Mining** at Village : Golpur, P.O.- Khaksa, P.S.- Pakuria, Dist.- Pakur (7.69 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

5. **Golpur Stone Mine Project of M/s Grands Mining at Village : Golpur, Khaksa, P.S.- Pakuria, Pakur (7.38 Ha).**

This is a Stone Mining Project for having an area of 7.38 Ha [Plot No.- 535 (P)]. The committee noted that as per Form I it is a proposal for new lease for which PP is seeking EC. It is B2 Category of Project - as per MoEF& CC Notification dated 15.01.2016.


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 Rs 8.84 Crore and a provision of Rs 8.72 Lakhs will be kept for Environment management.

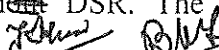
The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 43,76,916 t

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

| | | |
|----------------------|---|------------|
| 1 st Year | : | 1,99,503 t |
| 2 nd Year | : | 4,97,599 t |
| 3 rd Year | : | 4,27,129 t |
| 4 th Year | : | 5,67,292 t |
| 5 th Year | : | 3,02,146 t |

The daily production as per Form I is 1891 tonnes. 

PP has submitted certificates from DMO (Letter No.-1354, Dated- 20.06.17), DFO (Letter No.-1832, Dated- 23.12.16) and CO (Letter No.- 499, Dated- 22.10.16). The consultant explained and submitted the technical details of the process of mine plan preparation without DSR. The informations was examined and found to be satisfactory. 

Based on the presentation made and information provided the Committee decided that the proposal for **Golpur Stone Mine Project of M/s Grands Mining** at Village : Golpur, Khaksa, Pakuria, Pakur (7.35 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

6. **Golpur Stone Mine of M/s Grands Mining at Village : Golpur Khaksa, Pakuria, Pakur. (12.68 Ha).**

This is a Stone Mining Project for having an area of 12.68 Ha [Khata No. 56, Plot No. – 298]. The committee noted that as per Form I it is a proposal for renewal of lease for which PP is seeking EC. The validity of lease is from 06.10.2015 to 05.10.2025. It is under B2 Category of Project - as per MoEF & CC Notification dated 15.01.2016.

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 Rs 23.11 Crore and a provision of Rs 9.21 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 50,81,400 t

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

| | | |
|----------------------|---|-------------|
| 1 st Year | : | 5,75,910 t |
| 2 nd Year | : | 5,83,200 t |
| 3 rd Year | : | 8,91,810 t |
| 4 th Year | : | 10,33,965 t |
| 5 th Year | : | 8,66,295 t |

The daily production as per Form I is 3446 tonnes.

PP has submitted certificates from DMO (Letter No.- 378, Dated- 21.03.2015), DFO (Letter No.- 1363, Dated- 05.11.2014) and CO (Letter No.- 632, Dated- 06.07.2015).

The documents were examined and found to be satisfactory.

Based on the documents provided the Committee decided that the proposal for **Golpur Stone Mine of M/s Grands Mining at Village : Golpur P.O. : Khaksa, Block & P.S. Pakuria, Dist. : Pakur. (12.68 Ha)** be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

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

DSR has been submitted for this district and accordingly explained by the Proponent & Consultant for these project proposals. The project proposals have been made as per the prospecting area and Geological formation of the district is as per DSR. The project proposals as recommended and forwarded to SEIAA for necessary action.

1. **Rajbandh Stone Deposit Mine of M/s Mandhan Minerals Corporation (Shri Shiladitya Mukherjee) at Village –Rajbandh, Malpahari, Pakur (3.64 ha).**

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This is a Stone Mining Project having an area of 3.64 Ha [Khata No.-38, Plot No.- 581 (P)]. The committee noted that as per Form I it is a proposal for new mine for which PP is seeking EC. It is B2 Category of Project - as per MoEF& CC Notification dated 15.01.2016.

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 committee felt that the operation of the mine will have not have any major impact on the surroundings. The indicated project cost is Rs 49.00Lakh and a provision of Rs 3.19 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

| | | |
|---------------------------|---|-------------|
| Mineable Proved Reserve | : | 16,75,515 t |
| Mineable Probable Reserve | : | 11,250 t |

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

| | | |
|----------------------|---|------------|
| 1 st Year | : | 3,37,050 t |
| 2 nd Year | : | 3,36,945 t |
| 3 rd Year | : | 3,36,360 t |
| 4 th Year | : | 3,37,560 t |
| 5 th Year | : | 3,38,850 t |

The daily production as per Form-I is 1130 tonnes.

PP has submitted certificates from DMO (Letter No.-1580, Dated- 15.07.16), DFO (Letter No.- 927, Dated- 29.08.15) and CO (Dated- 19.06.17).The data was examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for **Rajbandh Stone Deposit Mine of M/s Mandhan Minerals Corporation** (Shri Shiladitya Mukherjee) at Village –Rajbandh, Malpahari, Pakur (3.64 ha) be recommended for consideration of SEIAA subject to above mentioned observation for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

2. **Chaita & Khairbera Balu Ghat on the river bed of Jamunia river of Mr. Lal Chand Mahto at Vill- Chaita & Khairbera, Tehsil- Topchanchi, Dist.- Dhanbad, (9.06 Ha).**

This is a Sand Mining Project for having an area of 9.06 Ha [Chaita Plot No.- 192 & Khairbera Plot no. 01]. The committee noted that as per Form I it is a proposal for grant of mine lease after auction vide DMO's allotment letter no.- 533, dated- 30.03.2015 for which PP is seeking EC.It is B2 Category of Project - as per MoEF& CC Notification dated 15.01.2016.

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

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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 (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 32 Lakhs and a provision of Rs 2.50 Lakh has been indicated for Environment management.

The proposed estimated mineable reserve is 1,84,404 cum and annual production capacity as per Form I has been indicated as 1,22,936 cum per annum.

PP has submitted certificates from CO, DFO and DMO. PP has submitted Affidavit that there is no intake well, breeding ground and bridge within 500 m from mine lease. The data was examined and found to be satisfactory.

In the earlier presentation following discrepancies were identified and the committee advised to submit accordingly

"As per DFO, Hazaribagh Wildlife Division letter dated 21.02.18, the minimum distance of proposed site from Topchanchi Wildlife Sanctuary is 7.89 km. Since the distance of site is less than 10 km from the Protected Area and project site is category B, as such its mandatory for PP to submit an application before the National Board for Wild Life and application copy be submitted to SEAC too, for needful, as per the notification of MoEF & CC, O.M. no.- J-11013/41/2006-IA.II(I), dated 02.12.2009, read with O.M. dated 30.03.2015.

The documents related to the above mentioned discrepancies have been submitted. The documents were examined and found to be satisfactory. No mining should be done without approval from National Board for Wild Life.

Based on the presentation made and information provided the Committee decided that the proposal for **Chaita & Khairbera Balu Ghat** on the river bed of Jamunia river of **Mr. Lal Chand Mahto** at Vill- Chaita & Khairbera, Tehsil- Topchanchi, Dist.- Dhanbad, (9.06 Ha) be recommended for consideration of SEIAA, subject to above mentioned observation for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - II**.

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

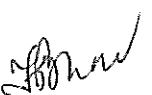
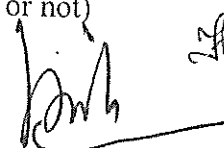
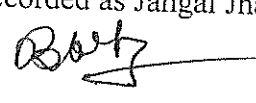
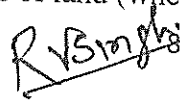
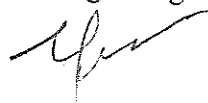
1. **City Centre Project of M/s Forum Infrastructure Pvt Ltd at Village- Asangi, Adityapur Dist. - Saraikela Kharsawan.**

The proposed project is a development of a City Centre at Adityapur over a vacant land having total land area of 87,849 sq.m (21.7 Acres). The land is a lease hold land given to the project proponent by Adityapur Industrial Area Development Authority (AIADA). The proposed city centre will be developed in two phase. At present, out of 21.7 acres of land area, 9.5 acres i.e. 38,464.83 sq.m will be developed as phase I comprising two office towers, one hotel tower, one hospital tower, one specially ward tower and one retail tower & multiplex and services. Rest of the land area will be kept for future development. Total built up area of the proposed Phase – I development will be 1,12,004.92 sq.m. The power requirement is 9300 KW from the Jharkhand State Electricity Board. The water requirement operation stage (during lean season) is total 896 KLD and water requirement operation stage (during monsoon season) is total 896 KLD.

In view of the above presentation and discussion, the committee felt it to have some more pertinent information and accordingly PP was asked to submit additional informations :

1. CO certificate regarding class of land (whether recorded as Jangal Jhari or not)

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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.

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

2. **Rajhara Opencast Project of M/s CCL at Vill.- Rajhara & Pandwa, Palamau, (149.38 Ha).**

The Project Proponent (PP) – M/s CCL has presented the background of the project, which is under as :

Rajhara OCP is an existing old coal mining project of Central Coal Fields Ltd. The mine was started in pre independence era and was nationalised in 1973.

The mining area is located in Palamu district of Jharkhand and forms the north western part of Daltonganj coal fields. The latitude and longitude of the project site is 24° 09' 3" N & 24° 10' 11" N and 84°02'27" E & 84° 03' 8" E respectively. The drainage of mine is controlled by North Koel river flowing in the south of project. The project area is dissected by Sadabah river a tributary of North Koel. The other near-by tributary of North Koel along the project is Labji. There is no forest patches in Core Zone. However, buffer zone of mining area has several patches of protected Forest like Aparar Khas, Murma, Kokansa, etc.

The nearest railway station is Rajhara station at a distance of 3 km on Gomoh-Dehri on Sone line. Daltonganj town is situated at a distance of 16 km from project site. The project has an adjacent railway siding for coal transport.

The normative capacity of project is 0.3 MTPA & peak capacity is 0.5 MTPA over a project area of 149.38 Ha. Coal production is proposed from two quarries on either side of Sadabah river. Embankments have been constructed to protect the quarries from inundation and will be further strengthened / constructed particularly on eastern flank of Sadabah, as claimed by the PP.

The balance geological reserve is 4.925 MT of G 9 grade and proposed mine life is 18 years. Mining will be undertaken by opencast method using shovel dumper combination.

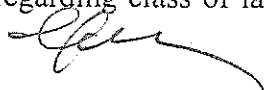
The project involves R&R of two villages – Rajhara (part) & Pandwa (part). The R&R policy of CIL will be used for compensation, employment and resettlement of PAPs. The project cost is Rs 11.88 Crores.

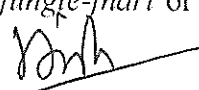
Form –I & Pre-Feasibility Report of Rajhara OCP were submitted to SEIAA in September 2014 for EC and the ToR was prescribed on 01.05.2015. The Public Hearing was held on 23.01.2016 and the final EIA & EMP was uploaded online on 05.04.2016. SEAC meeting was held on 06.12.2016 and SEAC sought additional information. The details of the same were submitted by Project Proponent to SEAC on 31.03.2017

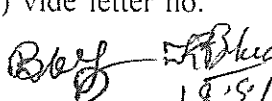
The SEAC meeting was again held on 23.05.2017, wherein the proposal was recommended for consideration of grant of EC, subject to approval of Mining plan & verification report regarding the class of proposed land.

M.S., SEAC has made several request/reminders to the PP as well as DC, Palamau for submission of CO certificate regarding class of land (whether recorded as *jungle-jhari* or not) vide letter no.

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154 dated 15.06.17, lt. no. 03 dt. 08.01.18, lt. no. 09 dt. 15.01.18, lt. no. 29 dt. 19.02.18, lt. no. 63 dt. 13.04.18. The PP has submitted the certificate of CO, Pandwa & CO, Nawabazar and certificate of Dy. Director, Palamau Tiger Project, Medininagar to SEAC on 27.03.2018.

The SEAC discussed the documents submitted by the PP particularly CO certificate and DFO certificate regarding distance of project from the Forest & Eco Sensitive Zone.

On scrutiny of the said documents, it is observed that there are still a number of discrepancy and missing data in the said documents. Out of the total 149.38 ha. of proposed area, the CO certificate submitted by PP regarding “non-Jungal jhari” is only for 45.14 ha (111.5 Acre). Hence a fresh proposal for the said 45.14 Ha area may be submitted, as per norms.

Similarly, the DFO certificate regarding distance of proposed area from notified forest is still awaited. The proponent present in the meeting assured the SEAC on 24.04.2018 to submit the rest of the documents in one week time. However, the PP has not submitted the requisite CO & DFO mandatory certificates, till date.

The committee observed that the proponent has shown casual approach in submission of requisite mandatory documents resulting in undue delay in recommendation of the EC. Therefore, the committee is left with following options :

- (i) Wait for the submission of proper requisite mandatory documents for the entire proposed area.
- (ii) Out of 149.38 Ha of total proposed area, only 45.14 Ha (111.5 Acre) of the proposed area may be considered for grant of EC. For this option, the PP has to submit the fresh Form -I, fresh & approved Mining Plan, etc.
Fresh documents should be supported by “undertaking” by the competent authority affirming that it would not do any illegal mining over the rest of the area, for which, proper CO certificate has not been submitted, till date. Besides, the PP would be held responsible for any illegal mining in the rest of the area.

SEAC accordingly with the above observation / recommendation forwards the present proposal to SEIAA for needful.


3. Integrated Cement Plant of M/s Burnpur Cement Ltd at Vill. Patratu Industrial Area, Patratu, Ramgarh.

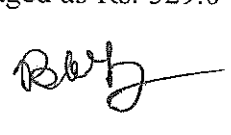
This is case for Validity Extension to the existing Environment Clearance (EC) of M/s Burnpur Cement Ltd. at Patratu Industrial Area, Ramgarh, Jharkhand for Integrated Cement Plant.

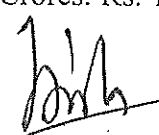
The project proposal was explained by the PP in detail which is as below :

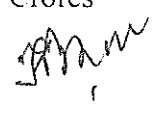
M/s Burnpur Cement Limited was granted Environment Clearance by MoEF & CC, New Delhi vide F. No. J-11011/45/2009-IA-II(1) to set up manufacturing unit for Clinker (5,28,000TPA) and Cement (Portland Slag Cement 2,64,000 TPA, Portland Pozzolona Cement 2,11,200 TPA and Ordinary Portland Cement 52,800 TPA at Patratu Industrial Area, Ramgarh, Jharkhand. The land requirement for the cement plant is 60 acres. No forest land is involved. No national park/sanctuary is located within 10 Km distance. River Damodar flows at a distance of 6.5 Km in North. The site falls in seismic zone-II. Total cost of the project is envisaged as Rs. 329.0 Crores. Rs. 13.33 Crores

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and Rs. 3.31 Crores has been earmarked for capital cost and recurring cost/annum for environment pollution control measures.

The major pollutants expected from the plant are PM, SO₂ and NO_x. ESP to kiln cooler and bag filters to kiln/raw mill and coal mill and bag filters for cement mill and packing plants will be provided to control the particulate emissions below 50 mg/m³. Fugitive emissions from limestone handling, coal handling, clinker hoppers, storage silos, weight feeders, grinding mills and packing machines will be controlled by providing covered sheds for storage of raw materials fully covered conveyors for transportation of materials etc.

The ground water requirement for the proposed project will be 400 m³/d. Permission from CGWA for drawl of ground water has been obtained vide letter No. 21-4(31)/CGWA/MER/2008/531 dated 29.01.2010 for 550 m³/day from ground water source. No wastewater will be discharged from the cement plant. Rain water harvesting will be implemented for the premises.

The dust collected from the various air pollution control measures like bag houses/filters, ESP etc. will be totally recycled in the process for cement manufacturing. Also other wastes like slag from iron and steel industries, fly ash from thermal power plants, will be used in the cement manufacture.


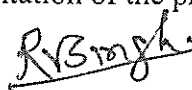
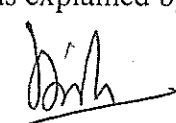
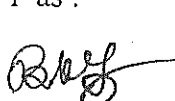
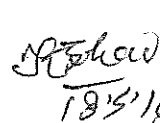
The Clinker & cement manufacturing units upto 1 MTPA are covered under Category" B" as per para 3(b) of the Schedule of the EIA notification 2006, and apprised by the Expert Appraisal Committee in the Ministry in the absence of SEIAA/SEAC then.

Present status of the project and schedule for implementation of balance units is as below:

| S. No. | Production Facility | Production Capacity /Annum | Status - Capacity | | Time frame by which Unit shall be Installed |
|--------|---------------------------|----------------------------|-------------------|---------------|---|
| | | | Installed | Not installed | |
| A | Clinker | 1600 TPD | 800 TPD | 800 TPD | November, 2020 |
| B | Cement | | | | - |
| 1. | Portland Slag Cement | 800 TPD | 400 TPD | 400 TPD | March, 2019 |
| 2. | Portland Pozzolana Cement | 640 TPD | 320 TPD | 320 TPD | March, 2019 |
| 3. | Ordinary Portland Cement | 160 TPD | 80 TPD | 80 TPD | March, 2019 |

- Expenditure made till date is Rs. 297 Crores
- Capital expenditure made till date for environment pollution control measures and EMP is Rs. 6.80 Crores
- Compliance with the conditions of Environmental Clearance is regularly being submitted to the concerned offices. The latest compliance submitted to Regional Office, MoEF &CC Ranchi and other offices on 13.12.2017 through speed post.
- Monitoring of Environmental parameters is being done regularly and are in compliance with the standards prescribed.

Reasons for the delay in implementation of the project was explained by PP as :

- The construction of plant was being looked after by Director and plant was being set up at normal pace units as mentioned above were installed.
- Further, there was suspension of operations in construction and installation of the proposed units owing to disturbance in construction and laying of 33 KVA line of DVC.
- Anti-social element attack twice at the plant. These attacks have resulted in loss of properties and have created a deeper sense of insecurity in the staff & workers. The matter taken up by appropriate authority and will be resolved through proper channels.
- Therefore, the plant could not implement the project and/or operate during the above circumstances. Now, through mutual trust of stakeholders the company intends to complete the project within next three years.

In view of the above presentation and discussion, the committee felt it to have some more pertinent information and accordingly PP was asked to submit additional informations :

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. Compliance of EC condition with documentary evidences.
4. Documentary evidences of the disturbance created by antisocial elements in the area.
5. Cost of EC implemented.

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

4. LPG Bottling Plant of M/s Shivaco Associates at Vill.- Aragara, Barhi, Hazaribagh.

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the project proponent has submitted the prescribed Form - I & PFR as the proposed project falls under item 6 (b) (Isolated storage & handling of hazardous chemicals) as per EIA notification, 2006.

Shivaco Associates has started lubricant trading since August, 2012 and entered into LPG trading business in January, 2013 and presently operating Auto LPG dispensing stations in the state of Telangana and LPG cylinders distribution and marketing in the state of Rajasthan, Jharkhand, Bihar. The company is having its own infrastructure for bulk LPG transportation of 10 MT, 11 MT, 17 MT vehicles and also having packed LPG cylinders distribution vehicle of different sizes and capacity.

PP explained in detail the need of this project submitted that the construction of a new LPG Bottling Plant of 2x10 MT above ground bullets, LPG Pump House, Fire Water Tanks, Truck Parking Area, Cylinder Filling Shed, Cylinder Storage Shed, Cylinders loading / unloading platforms. Plan to market 4 kgs, 6 kgs and 15 kgs capacity cylinders as domestic cylinders to consumer who is not getting the cylinders from PSU's due to shortage and poor distribution in the city and remote village. Plan to market various capacity of 17 kgs / 21 kgs / 33 kgs cylinders to the industrial and commercial consumers. The power requirement is 59.65 KW. Power will be drawn from the Jharkhand Urja Vikas Nigam Ltd (JBVNL). The water requirement is approx. 4 KLD. The plant is proposed at Khata No. 04, Plot No. 46, Village- Aragara, Division Barhi, Dist.-Hazaribagh which is located at a distance of 8.5 Km from Barhi Railway Station. The project cost is Rs 5.0 Crores. Total land for the proposed project is 2.0 acres.

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[Handwritten signatures and initials]

RVB/12

In the earlier presentation, discrepancies in following document were identified and the committee advised the PP to submit the proper documents :

- I. Document, regarding permission / certificate / circular regarding import & handling of the gaseous materials.
- II. CO certificate regarding class of land (whether recorded as Jangal Jhari or not)
- III. DFO Certificate regarding distance from notified forest / National Park / Sanctuary/ Eco Sensitive Zone / Bio-Diversity Area.
- IV. Toposheet of the area.
- V. Latitude & Longitude of all the corner points.
- VI. Documents related to design approval from Indian Explosive Regulatory Deptt., Nagpur.
- VII. CGWB permission for using ground water.

The scrutinized the documents submitted by PP. On deliberations following observations has been made :

- a) Document related to import & handling of the gaseous materials was not found to be satisfactory. The proponent agreed to submit the Government Circular in this regard.
- b) The certificate submitted by PP regarding the class of land issued by CO, Barhi, Hazaribagh found unsatisfactory/formal as the said certificate does not bear official letter number & date Besides, it is not clearly mentioned whether the proposed land is "recorded" as jangal jhari, or not.
- c) That the DFO, Hazaribagh West Division vide his letter no. 994 dt 07.03.2018 has certified that the distance of project site from notified forest is 05 m only. The minimum distance of nearest notified forest from the project site, is 250 m., as recommended by SEAC & adopted by SEIAA, Jharkhand. Thus, as per the criteria / guideline propounded by SEIAA, the instant project site is not fit to be recommended for grant of EC.
- d) The toposheet of the area and latitude/longitude of the corner points has been submitted.
- e) The documents related to design approval from Indian Explosives Deptt. Nagpur has been submitted.
- f) The application related to CGWB permission for using ground water has been submitted

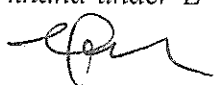
The Committee discussed all the issues and concluded that the requisite document viz C.O. certificate is not legally valid. Besides, 250 m minimum distance criteria of SEIAA for the project is not fulfilled. Accordingly the instant project for LPG Bottling plant is not recommended for EC, since the site is only 5 meters away from the notified forest. The project proposal may be accordingly rejected.

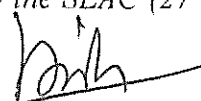
5. Regularization cum Expansion of M/s Santpuria Alloys (P) Ltd at Vill. Manjhladih, Giridih.

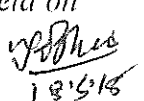
The ToR was granted by SEIAA vide letter no. EC/SEIAA/2014-15/570/2014/901 dated 01.05.2015 for 02 years. For extension of ToR application submitted on 17.11.2017 to SEIAA same referred to SEAC on 17.11.2017. Matter before SEAC meeting January, 2018 for extension of ToR. Some clarifications were asked by the Committee. PP has submitted clarification on 03.04.2018.

Dr. R.V. Singh, Member has pointed out as under :

"It is pertinent to bring to the notice before the SEAC / SEIAA prior to granting / extension of ToR, the credible action taken by JSPCB, Ranchi & Forest & Environment Deptt., Govt. of Jharkhand under E (P) Act as recommended by the SEAC (27th (part A) meeting held on

 R.V. Singh 13

 Barhi

 JSPCB
18/5/18

24th to 27th March, 2015) / SEIAA (29th meeting held on 02.04.2015) while recommending ToR."

In the light of MoEF OM dt 07.11.14, SEAC seeks from SEIAA

- (i) Whether any credible action has been taken or not ?
- (ii) Whether or not PP has submitted the details of violation ?
- (iii) Whether or not State has filed any case (with details) for necessary appraisal of the project.

6. Pahartoli Sand Mining Project of Shri Anil Kumar Gupta at Vill.- Pahartoli, Basia, Gumla, (5.66 Ha)

The stone mining project is having an area 5.66 Ha. The PP was advised to submit the documents like DFO report.

As per CF, Gumla Division letter no. 3320 dated 04.12.17, the minimum distance of proposed site from Palkot Wildlife Sanctuary is 7.6 km. Since the distance of site is less than 10 km from the Protected Area and project site is category B, as such its mandatory for PP to submit an application before the National Board for Wild Life and application copy be submitted to SEAC too, for needful, as per the notification of MoEF & CC, O.M. no.- J-11013/41/2006-IA.II(I), dated 02.12.2009, read with O.M. dated 30.03.2015 and PP was asked to submit CO certificate regarding class of land (whether as recorded Jangal Jhari or not) and EMP report.

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

3. Belpahari Stone Mine Works of M/s Guru Stone Product at Village-Belpahari & Suiraidih, 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 committee noted that as per Form I it is a proposal for new lease for which PP is seeking EC. It is B2 Category of Project - as per MoEF & CC Notification dated 15.01.2016.

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 Rs81.9Lakh 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

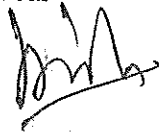

Mineable Proved Reserve : 36,50,200t

Mineable Probable Reserve : 1,32,420t

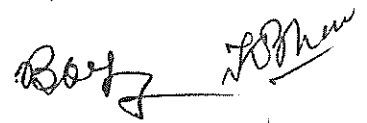
Year-wise Production as per Approved Mining Plan Report for five years is as follows

| | | |
|----------------------|---|------------|
| 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 |

Q





The daily production as per Form I is 1142tonnes.

PP has submitted certificates from DMO (Letter No.-1157, Dated- 18.05.2017), DFO (Letter No.- 668, Dated- 07.05.2016) and CO (Letter No.- 764, Dated- 21.11.2016).

This project was presented in view of the approved DSR report of the district. The PP explained the location of the site as per the prospecting area.

The CO certificate submitted earlier does not mention the status of Jangal Jhari and as such advised to submit the same.

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

4. Bhendra Sand Mining Project on Jamunia River of Sri Pintu Kumar at Vill. – Bhendra, Nawadih, Bokaro (9.71 Ha)

This is a Sand Mining Project for having an area of 9.71 Ha [Plot No.- 01 (P), 2241 & 2244 (P)]. The committee noted that as per Form I it is a proposal for grant of mine lease after auction vide DMO's allotment letter no.- 1829, dated- 15.05.2015 for which PP is seeking EC.It is B2 Category of Project - as per MoEF& CC Notification dated 15.01.2016.

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 Rs 65 Lakhs and a provision of Rs 4.00 Lakh has been indicated for Environment management.

The proposed estimated mineable reserve is 1,58,904 cum and annual production capacity as per Form I has been indicated as 1,05,936 cum per annum.

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

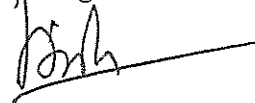
Once the PP provides the information, SEAC will examine the case.


E. The following is the list of PP's not present.

1. Sand Mining Project at Banai River of M/s Anokha Ram at Vill.- Mahil & Ghaghra, Murhu, Khunti. (6.975 Ha)
2. Jarangdih Sand Mine project in River Bed of Damodar of M/s CCL at Mouza – Jarangdih, Gomia, Bokaro (48.75 Ha)
3. Swang Sand Wining project in River Bed of Bokaro of M/s CCL at Vill. Hazari, Gomia, Bokaro (34.83 Ha).
4. Govindpur Sand Mine project in River Bed of Damodar of M/s CCL at Vill.- Govindpur, Bermo, Bokaro (35.58 Ha)
5. Madhopur & Parodih Stone Mines of M/s Mahesh Kumar Verma & Other at Vill.- Madhopur & Parodih, Dhanwar, Giridih (0.52 Ha).
6. Jangalpur Stone Mine of Md. Mobin Ansari & Md. Margub Ansari at Village- Jangalpur, Govindpur, Dhanbad (1.60 Ha).



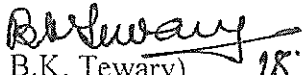
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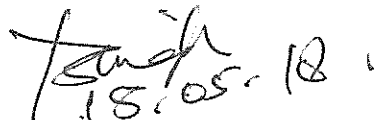


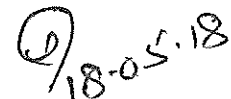
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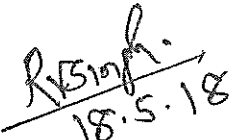
7. Jangalpur Stone Mine of Md. Hasimuddin Ansari at Village- Jangalpur, Govindpur, Dhanbad (0.963 Ha).
8. Badagaon Stone Mine of Sri Navkishor Singhdeo at Village- Badagaon, Kharsawan, Saraikela-Kharsawan (2.43 Ha).

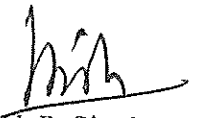
The meeting concluded with thanks to all present.

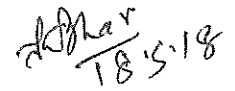

(Dr. B.K. Tewary) 18.5.2018
Member


(Y.K. Singh) 18.05.18
Member


(Om Prakash)
Member Secretary


(Dr. R.V. Singh) 18.5.18
Member


(U. P. Singh)
Member


(K.P. Bhawsinka)
Chairman

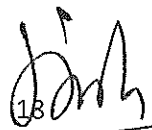
A. Specific Conditions

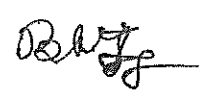

1. The environmental clearance is subject to period of lease of the mine by the Department of Mines, Government of Jharkhand to PP and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance.
3. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / National Green Tribunal / MOEF Guidelines applicable to Minor Minerals.
4. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any endangered fauna occurs / is found in the Project area). No damage is to be done to the fauna in general and endangered species in particular, if found in ML area (as mentioned in various schedules). In such case they should be given protection, capture alive with the help of the subject expert and transfer them or handing over them to the concerned authorities. Conservation Plan, if applicable has to be adhered to.
5. The mining operations shall be restricted to ground above water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board shall be obtained. Benches height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per IBM or equivalent agencies. Safety measures shall be adopted in line with DGMS Guidelines.
6. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
7. The project proponent shall ensure that no natural watercourse and / or water resources shall be obstructed / diverted due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating / passing through the mine lease area during the course of mining operation.
8. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used by spreading on the land reclamation and plantation.
9. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
10. Catch drains and siltation ponds of approved size to contain silt & water and its location shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the nearby agricultural fields, and other water bodies. The water so collected should be utilized for watering the haul roads, green belt development etc. A periodical report shall be sent. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
11. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
12. Greenbelt of approved width shall be developed all along the length of mine lease area and haul roads. The Project proponent shall do adequate no at least 50 bamboo gabion plantation

each year and maintain it for the life of the mine along the transport road and vacant space, preferably along the periphery of mining lease. Fast growing and local species will be planted.

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

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

B. General conditions

1. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
3. The Project proponent shall make all internal roads pucca as per approved specification of Govt. of Jharkhand and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
4. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
5. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
6. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
7. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
8. Personnel working in dusty areas should be provided with protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Detailed report shall be sent to Pollution Control Board periodically.
9. Dispensary facilities for First Aid shall be provided at site.
10. A separate environmental management / monitoring cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
11. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi. PP shall carry out CSR

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activities as per Government Guidelines (%of Profit / turnover) or at least Rs 1 per ton whichever is higher.

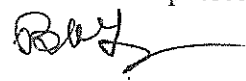
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA / JSPCB and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO₂ ,NO_x (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also be sent to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

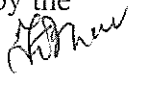
C. Other points

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded will be valid for the period of lease of the mine, till the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.
3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the

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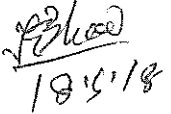
Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.

5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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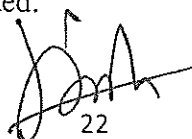



18.5.18

A. Specific Conditions

1. The Environmental clearance is subject to grant of Mining Lease and will be co-terminus with the mining lease period.
2. The mining work will be open-cast and exclusively manual. No mechanical work or drilling / blasting should be involved at any stage.
3. The PP should submit the result of the application regarding the distance from the Topchanchi Wildlife Sanctuary. The provision of the OM no. J-11013/41/2006-IA.II(I), dated 02.12.2009 of MOEF will be applicable.
4. The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed. Also PP shall ensure that stipulations mentioned in MoEF OM No.- J-13012/12/2013-IA-II(I), dated- 24th December, 2013 and SEIAA, Jharkhand guideline dated 07.05.2013 are adhered to.
5. For the green belt development in the mining area / transport road sides / other land area saplings available in the forest nursery / private nursery should also be considered for the mentioned purpose instead of the Trees / Plants mentioned in the PFR / Presentation copies of the proposed mine.
6. No sand mining activities will be carried out in upstream or downstream within 500 m of railways, road, bridge, water intake, wires & notified aquarium or breeding places.
7. Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc and shall submit report to SEIAA, JSPCB and DMO after every monsoon i.e. by end of November (30th) of that year. Also after receding of flood / water (after monsoon) a study has to be conducted in mining lease area and list of flora & fauna is to be prepared and submit report to SEIAA, JSPCB and DMO.
8. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs / is found in the Project area).
9. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
10. The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left un-worked (Non mining area), distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season. Due consideration will be given to points raised in Supreme Court judgement and SEIAA guidelines.
11. The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected.

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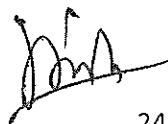
12. The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
13. Solid waste material viz., gutkhapouchs, plastic bags, glasses etc. to be generated during project activity will be separately stored in bins and managed as per Solid Waste Management rules.
14. Natural /customary paths used by villagers should not be obstructed at any time by the activities proposed under the project. Transportation of sand is to be carried out with consent of Villagers and Trucks are to be covered with Tarpaulin.
15. Local flora may be planted in the Core Zone of the Mining Lease area.
16. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
17. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
18. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
19. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
20. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
21. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
22. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
23. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
24. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
25. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein
26. At least 1.5 meter from the river bed sand should be kept intact and mining can be done above this cushion of sand considering the geological condition of Chhotanagpur plateau.

Handwritten signature: Anil Ray
Handwritten date: 18/5/18

B. General conditions:

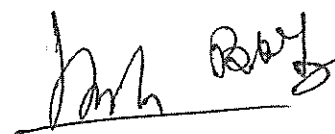
As per the latest guidelines of MoEF & CC regarding Sustainable Sand Mining Management Guidelines 2016 –

1. EC is subject to having valid lease and all statutory clearance as applicable.
2. Monitoring Committee including Local Panchayat to check on traffic due to transportation and submit an annual report on the same.
3. To maintain safety and stability of Riverbanks i.e. 3 meter or 10% of the width of the River whichever is more will be left intact as no mining zone.
4. Ultimate working depth shall be up to 3.0 m from Riverbed level and not less than one meter from the water level of the River channel whichever is reached earlier.
5. The directions given by the Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLP(C) Nos.19628-19629 of 2009] and order dated 05.08.2013 of the Hon'ble National Green Tribunal in application No.171/2013 may be strictly followed.
6. All the provisions made and restrictions imposed as covered in the Minor Mineral Rule, shall be complied with, particularly regarding Environment Management Practices and its fund management and Payment of compensation to the land owners.
7. District level Survey Report should be prepared and area suitable for mining and area prohibited for mining be identified.
8. No River sand mining be allowed in rainy season.
9. To submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity/ production levels shall be decreased / stopped accordingly till the replenishment is completed.
10. In River flood plain mining a buffer of 3 meter to be left from the River bank for mining.
11. In mining from agricultural field a buffer of 3 meter to be left from the adjacent field.
12. Mining shall be done in layers of 1 meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
13. No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.
14. No blasting shall be resorted to in River mining and without permission at any other place.
15. Depending upon the location, thickness of sand, deposition, agricultural land/Riverbed, the method of mining may be manual, semi-mechanized or mechanized; however, manual method of mining shall be preferred over any other method.
16. Mining should be done only in area / stretch identified in the District Level Survey Report suitable for mining and so certified by the Sub- Divisional Level Committee after site visit.



17. Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.
18. The top soil in case of surface land mining shall be stored temporarily in an earmarked site and concurrently used for land reclamation.
19. The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.
20. For each mining lease site the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.
21. The State / District Level Environment Committee should use technology like Bar Coding, Information and Communications Technology (ICT), Web based and ICT enabled services, mobile SMS App etc. to account for weight of mineral being taken out of the lease area and the number of trucks moving out with the mineral.
22. There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.
23. Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit.
24. Restricted working hours Sand mining operation has to be carried out between sun rise to sun set.
25. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly.
26. Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.
27. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and used.
28. The mining operations are to be done in a systematic manner so that the operations shall create a major visual impact on the site.
29. Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder should plant and maintain for lease period at least 50 gabion plantation in area near lease and road connecting lease area.
30. No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made thereunder.
31. Protection of turtle and bird habitats shall be ensured.

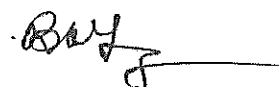
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16/5/18

32. No felling of tree near quarry shall be allowed. For mining lease within 10 km of the National Park / Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wild Life (NBWL) have to be obtained as per the Hon'ble Supreme Court order in I.A. No. 460 of 2004.
33. Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.
34. Removal, stacking and utilization of top soil in mining are should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.
35. The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures.
36. Use of oversize material to control erosion and movement of sediments.
37. No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope.
38. No extraction of sand in land slide prone areas shall be carried out.
39. Controlled clearance of riparian vegetation to be undertaken
40. Site clearance and tidiness is very much needed to have less visual impact of mining.
41. Dumping of waste shall be done in earmarked places as approved in Mining Plan.
42. Rubbish burial shall not be done in the Rivers.
43. The EC holder shall take all possible precautions for the protection of environment and control of pollution.
44. Effluent discharge should be kept to the minimum and it should meet the standards prescribed.
45. Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical, and archaeological importance.
46. Vehicles used for transportation of sand are to be permitted only with of fitness and PUC Certificates.
47. Junction at take-off point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.
48. Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
49. No stacking allowed on road side along National Highways.
50. The Project Proponent shall undertake phased restoration, reclamation and rehabilitation of land affected by mining and completes this work before abandonment of mine.

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51. Site specific plan with eco-restoration should be in place and implemented.
52. Health and safety of workers should be taken care of.
53. The Project Proponent shall make arrangement for drinking water, first aid facility (along with species specific anti-venom provisioning) in case of emergency for the workers.
54. The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.
55. Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained: also, Occupational health check ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for labour for ensuring good occupational environmental for mine workers would also be adopted.

C. Other points

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of lease of the mine, the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.
3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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Jim Barry JKHaw
18.5.24

