

MINUTES OF THE 50th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 20TH, 21ST AND 22ND NOVEMBER, 2017

The 50th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 20th, 21st and 22nd November, 2017 under the Chairmanship of Sh. K.P. Bhawsinka in the Conference Room at SEAC, Ranchi.

1. Shri K.P. Bhawsinka - Chairman
2. Dr. B.K. Tewary - Member
3. Shri R. N. Singh - Member
4. Shri Y. K. Singh - Member
5. Shri S.P. Shriwatava - Member
6. Dr. V.P. Sinha - Member
7. Dr. R.V. Singh - Member
8. Shri M.S. Bhagwat - Member
9. Shri Om Prakash, - Member Secretary

Various projects which were received by SEIAA after the previous SEAC meeting on 16th and 17th October, 2017 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. 52nd MOM of SEIAA, Jharkhand dated 11.11.17

1. Discussed on distance of forest

As per the 52nd MOM wherein SEIAA opines that the delay has been incurred by SEAC. But the fact is that, with reference to the recommendation of 40th SEAC meeting (dated 22 & 23 December, 2016), SEIAA in its 45th meeting (dated 30.12.2016) decided to seek information from SEIAAs of other states regarding "Distance of project site from forest". The M.S, SEAC has again requested to SEIAA, Jharkhand to provide write up / circular / document regarding "minimum distance of site from the forest" in SEIAA of other states.

However SEIAA, Jharkhand has till date not provided any information regarding the distance issue.

SEAC deliberated the said issue in 47th meeting dated 17-18.08.17 with representatives of different Departments. SEAC sought write up/details/documents from the representatives of concerned Departments vide its letter no 170, dated 20.07.17 and taken on reminded vide letter no. 193, dated 08.09.17. However, no write/details/document was provided by any of the representative of different Departments. Finally, SEAC made recommendation regarding "minimum distance of site from forest" vide its letter no 197, dated 15.09.17. Hence, non-

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availability of write up/documents, as well as procedural formalities was the root-cause of delay in submitting the said recommendation.

Chairman, SEAC raised concerns on such sensitive issues like sustenance and irreversibility of eco systems/process in forest boundaries and nearby, oxygen and vegetative production/regeneration. The impact of projects on forests, ecosystems vis-a vis socio economic aspects were also discussed. To keep the eco system to a minimum damage, there is need to maintain a minimum buffer zone depending upon the specific impacts of project (s) and activities in between.

This is inline of Hon'ble Supreme Court directives on keeping a buffer of 100 meters.

2. Reply related to District Survey Report

As per the Gazette notification of MOEF & CC, Govt. of India dated 15.01.16 the preparation of DSR is yet to be made in Jharkhand State. At the same time, SEAC has been appraising the proposals of sand mining and minor minerals ^{since these have been} forwarded by SEIAA only.

SEAC submits the details of technicalities and basis of appraisal without the DSR. The explanations is as below :

Mining Proposals (for minor minerals & river sand mining) for Environmental Clearance were reviewed based on the geological reports and maps published by the Geological Survey of India and Directorate of Geology, Govt. of Jharkhand which are already in public domain. During review the Consultants / RQP / Proponents were advised to improve their project reports based on available literature (refer item no. of Minutes of 42nd Meeting of SEAC). (Copy enclosed). At the same time, SEAC, Jharkhand is represented by two senior level retired officers of G.S.I. Some important suggestions were also provided to the consultants / RQP / Proponents for their consideration at the time of preparation of Project Reports for stone mining and river sand mining (Copy enclosed).

So that -

- i. Identification of areas of aggradations or deposition where mining can be allowed.
- ii. Identification of areas of erosion and proximity to infrastructural structures and installations where mining should be prohibited.
- iii. Calculation of annual rate of replenishment and allowing time for replenishment after mining in that area.

Present method of Resource Estimation and Evaluation -

Some of the literature available on District Resource Survey and maps in Jharkhand State are available in public domain which helps in estimation of the resources. Further no bore hole input for minor minerals conducted and reported. Generally resources estimation is conducted on the basis of exposed material available in nearby mining area.

Earlier IBM guidelines and recommendation followed. In this regard Geological Survey of India has published district wise all the different district and DSR of the different districts uploaded in the public domain.

Method of Evaluation process followed :- Present SEAC has followed the appraisal of different sand mining and minor minerals as the following methods.

STONE MINING

A mining plan is a document of development and exploitation of a deposit during its economic life including present mining plan. Geological study includes structure, size, shape, chemical analysis, petrological study, mineral grade, density, reserve quality and quantity.

At the time of preparation of mining plan for minor mineral, three dimensional configuration of the deposit can be achieved through sampling, trenching, pitting and drilling.

It cannot be achieved in one day by visiting adjoining areas. Nomenclature of the minor mineral deposit (project) should be clear. It should not be vague like "stone mining".

1. The proponent/consultant should give proper nomenclature of the minor mineral of the so called "Rock deposit".
2. The proponent/ consultant has to give UNFC of mineral reserve/ resource .(Guideline under MCDR).

The UNFC consist of a three dimensional system, Geological assessment, Feasibility assessment and Economic validity. The process of Geological assessment is conducted in three stages as (i) reconnaissance,(ii) prospecting (iii) general exploration and (iv) detailed Exploration. These successive stages of geological assessment create data with a clearly defined degree of Geological assurance.

The typical stages of Feasibility assessment consists of geological study as initial stage followed by Pre-feasibility study and feasibility study.

The degree of Economic validity is assessed in course of Pre-Feasibility studies.

Thus it is a three degree code based system. The highest category of reserve under UNFC system will be (111) and the lowest category (334).

3. The Feasibility study assesses in detail the technical soundness and Economic validity of a mining project. Cost data must be reasonably accurate.
4. Removal of upper fracture zone in the hard rock area will hit an Environmental hurdle. It is well known fact that in the hard rock terrain the weathered or fracture zone contain maximum amount of water. Hard rock areas like Rajmahal Trap are devoid of water except in fracture and intertrapean zones. If there is no water in the upper fracture zone in the area, it indicate water level has been further lowered due to mining activity in the area. It is a serious situation and need further investigation. Depletion in water in the upper fracture or weathered zone may cause increase in concentration of arsenic and Floride in ground water.

So, water analysis is required

5. The poor citizen of the area will be hit the hardest. So, for working towards sustainable Socio-economic development and improved quality of life of a citizen, proper amount may be provided for CSR.
6. Geological Survey of India has not carried out Geological Exploration in this area.

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Sand Mining

River sand mining which has given rise to various problems are (i) river bank erosion (ii) river bed degradation (iii) river buffer zone encroachment and (iv) deterioration of river water quality. Very often over-mining occurs which jeopardizes the health of the river and environment in general.

River sand mining plan for three years are given based on replenishment in successive years, but calculation for replenishment/ sediment yield per year is not clear. As the sedimentation /replenishment or sediment yield in the river depends on (i) drainage area of the river (ii) mean annual run off (rain fall in the catchment area) (iii) velocity of the flow of the river. All these parameters require detailed study. Generally it is told during presentation that there was no flow in the river at the time of survey. Velocity of the flow of the river is an important factor in producing sediment yield / sedimentation in the river. This may be the reason that there was confusion in showing even the flow direction of the river. Some other important suggestions which should be included are:

- (a) GPS reading of the Boundary Pillars on the area map.
- (b) Correct flow direction of the river,
- (c) Parameters considered for Geological reserve (proved) and mineable reserve ,
- (d) Safety zone should be $1/5^{\text{th}}$ of the river width or 15 m whichever is higher,
- (e) Thickness of the sand deposit with vertical section litho log at three locations.
- (f) Nos. of the sand mining project in the upper stream of the river
- (g) Thickness of the sand, grit ,gravel and silt bed left after proposed sand mining
- (h) Details of the riparian fauna and flora in the project area.

The above mentioned explanation clarified the process of technical evaluation conducted in all the 30 appraised projects and as such SEAC has not violated the norms & guidelines.

The SEAC forwards all the above files again and recommendations sought to SEIAA for final approval.

B. Approved Mining Plan referred by SEIAA

As forwarded by SEIAA, in these files, the EC was approved based on Form-I & PFR submitted. The mine plan was approved on later dates. There is a need to make a table of data of approval of EC, mine plan and compare the area of lease and production capacity in both the stages i.e. before EC in Form-I and the mine plan as approved.

The administrative scrutiny of all the files are required and no technological appraisal for SEAC expert.

Files are ^{being} returned to SEIAA.

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

In view of the Gazette notification of MOEF & CC dated 15.01.16 all the proponents were advised to submit their explanations on the methods of technical resource assessment adopted without DSR in mining plan preparation process.

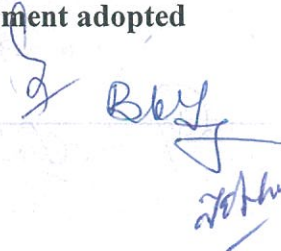
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1. Patnibona Stone Mine of M/s Astha Stone Works at Village- Patnibona, P.O.- Bakudih, Tehsil- Taljhari, Dist.- Sahibganj, (6.07 Ha).

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 committee noted that as per Form I it is a proposal for renewal of mine lease for which PP is seeking EC. The lease was valid w.e.f. 04.08.2009 for a period of 07 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 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

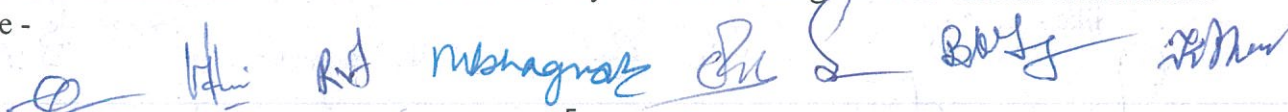
The daily production as per Form I is 1000 tonnes.

PP has submitted certificates from DMO (Letter No.-664, Dated- 29.02.16), DFO (Letter No.-1669, Dated- 16.10.14) and CO (Letter No.- 412, Dated- 11.10.14). 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 Patnibona Stone Mine of M/s Astha Stone Works at Village- Patnibona, P.O.- Bakudih, Tehsil- Taljhari, Dist.- Sahibganj, (6.07 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given in Annexure - I.

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

The recommendation of SEAC was send back by SEIAA on the ground of various informations like -

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"The Authority examined the recommendation made by SEAC. It was observed unanimously that there is mismatch in present land use status for balanced land is 1.7720 Ha in EMP and those given in existing land use pattern for balanced land 1.1826 Ha of the mine plan. Hence proposal is referred to the SEAC for proper examination the recommendation."

PP has submitted above mentioned documents.

This is a Stone Mining Project for having an area of 2.025 Ha [Khata No. 11, Plot No.- 09 (P) &18 (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. 07.12.2007 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 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.

PP has submitted certificates from DMO (Letter No.- 2850, Dated- 03.11.16), DFO (Letter No.- 1612, Dated- 05.11.16) and CO (Letter No.- 15, Dated- 01.07.16). 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 Gangupara Bedo Stone Mine of Sri Mainul Ansari at Village- Gangupara Bedo, Tehsil- Pathna, Dist.- Sahibganj, (2.025 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given in Annexure - II.

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

The recommendation of SEAC was send back by SEIAA on the ground of various informations like -

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"The Authority examined the recommendation made by SEAC. It was observed that all pillars especially at turning point of the proposed site have not been marked with latitude/longitude. The proposal is referred back to the SEAC for detail examination and recommendation."

PP has submitted above mentioned documents.

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 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 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

1 st Year	:	1,20,026 t
2 nd Year	:	1,20,227 t
3 rd Year	:	1,20,015 t
4 th Year	:	1,20,029 t
5 th Year	:	1,20,020 t

The daily production as per Form I is 400 tonnes.

PP has submitted certificates from DMO (Letter No.- 2814, Dated- 31.10.16), DFO (Letter No.- 1027, Dated- 01.07.16) and CO (Letter No.- 26, Dated- 07.12.16). 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 Idpe (Gadai Bhatta) Stone Mine of Sri Ramesh Kumar Dokania at Village- Idpe (Gadai Bhatta), P.S.- Ranga, Dist.- Sahibganj, (2.90385 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given in Annexure - II.

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

The recommendation of SEAC was send back by SEIAA on the ground of various informations like -

“The authority examined the recommendation made by SEAC. It was observed unanimously that in the Environment Management Plan all the turning points of the map needs to be marked with latitude/longitude. The proposal is referred back to the SEAC for detail examination and recommendation.”

PP has submitted above mentioned documents.

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 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 Rs1.43Crore and a provision of Rs 7.35 Lakhs will be kept for Environment management.

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.

PP has submitted certificates from DMO (Letter No.-117, Dated- 19.01.17), DFO (Letter No.- 86, Dated- 17.01.17) and CO (Letter No.- 01, Dated- 19.01.17). 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 Pusre & Roro Stone Mine of M/s Jai Bharat Construction Company at Village- Pusre & Roro, P.O. & P.S. - Taljhari, Dist.- Sahibganj (4.98 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given in Annexure - II.

5. **Golpur Stone Mine Project of M/s Grands Mining at Village : Golpur, P.O.- Khaksa, P.S.- Pakuria, Dist.- Pakur (9.31 Ha).**

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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.

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 without DSR. The informations was examined and found to be satisfactory.

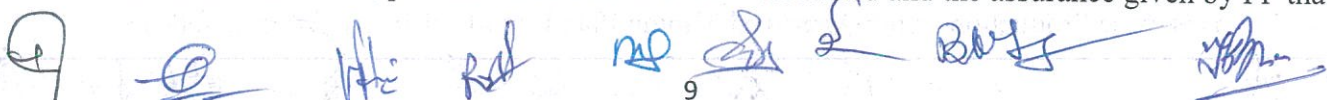
Based on the presentation made and information provided the Committee decided that the proposal for Golpur Stone Mine Project of M/s Grands Mining at Village : Golpur, P.O.- Khaksa, P.S.- Pakuria, Dist.- Pakur (9.31 Ha) be recommended for consideration of SEIAA subject to above mentioned observations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

6. Golpur Stone Mine Project of M/s Grands Mining at Village : Golpur, P.O.- Khaksa, P.S.- Pakuria, Dist.- 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

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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 are given in Annexure - II.

7. Golpur Stone Mine Project of M/s Grands Mining at Village : Golpur, P.O.- Khaksa, P.S.- Pakuria, Dist.- 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

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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 are given in Annexure - II.

8. Golpur Stone Mine Project of M/s Grands Mining at Village : Golpur, P.O.- Khaksa, P.S.- Pakuria, Dist.- 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

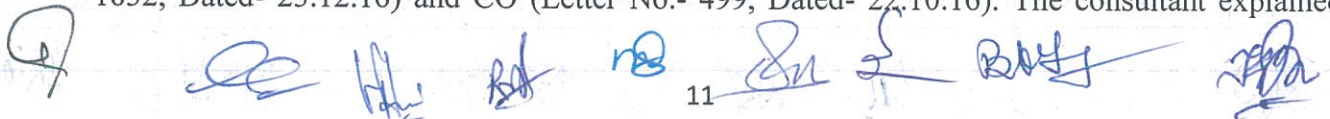
Mineable Proved Reserve	:	43,76,916 t
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Year-wise Production as per Approved Mining Plan Report for five years is as follows

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 (7.69 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given in Annexure - II.

9. Inclusion of Common Bio-Medical Waste Treatment Facility in Hazardus waste management^{Facility} of M/s Adityapur Auto Cluster at Village-Dugni, Tehsil- Saraikela, Dist.- Saraikela Kharsawan.

Hazardus waste management^{Facility} of M/s Adityapur Auto Cluster had earlier obtained EC vide letter no.- EC/SEIAA/2013-14/149/2013/1944, dated- 30.11.2015 for 17,400 TPA.

Now, amendment in the existing EC for inclusion of Bio-Medical Waste Treatment Facility has been sought. As the bio-medical waste will be processed in the existing 500 kg/hr incinerator and there will not be any additional pollution load increase due to the addition of biomedical waste.

The Salient Features of the Common Bio-Medical Waste Treatment Facility are as follows:

Project Title	Inclusion of Common Bio-Medical Waste Treatment Facility in Hazardous Waste Management Facility at Dugni Village, Saraikela Tehsil, Saraikela – Kharsawan District, Jharkhand
Consultant	Ramky Enviro Services Private Limited, 12 th Floor, Ramky Grandiose, Ramky Towers Complex, Gachibowli, Hyderabad
Proponent	M/s Adityapur Auto Cluster, Jamshedpur
Project Cost	Rs. 70 Lakhs
Land Area	20 acres
Land Allotment By	Adityapur Auto Cluster, Adityapur Industrial Area Development Authority
Coverage Area	Saraikela – Kharsawan, Ranchi, East Singhbhum and West Singhbhum
Scope of Work	Collection, Transportation, Treatment and Disposal of Bio-Medical Waste
Equipment	Autoclave – 430 liters/batch Shredder – 100 kg/hr Existing Incinerator 500 kg/hr will be used.
Capacity of the Facility	20,000 Beds
Waste Handling Capacity	Biomedical waste generated from 20,000 beds. The total waste handling capacity of the facility shall not exceed 17,400 TPA, as per earlier EC.
Water Consumption	No additional water will be required for inclusion of proposed

	BMW facility in the Hazardous Waste Management Facility.
Wastewater Generation	Waste water generated will be treated in in-house ETP and shall be reused within the facility (Zero Liquid Discharge)
Power	Source of Power – Jharkhand State Electricity Board
Disposal of ETP Sludge and Ash	ETP Sludge and Ash will be disposed within the facility (secured landfill/incineration).

Based on the presentation made and information provided the Committee decided that the proposal for Inclusion of **Common Bio-Medical Waste Treatment Facility in Hazardus waste management** of M/s **Adityapur Auto Cluster** at Village-Dugni, Tehsil- Saraikela, Dist.- Saraikela Kharsawan be recommended for consideration of SEIAA subject to above mentioned observations for grant of amendment of EC alongwith all the conditions provided earlier.

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

- 1. Mahesh Munda Sand Mine Project on Ajay River of M/s Mehar Developers (Sri Anil Kumar Singh) at Vill.- Maheshmunda, Sagjuriya, Nala, Jamtara(16.19 Ha)**

The Proponent requested to allow to submit the fresh approved mine plan prepared by a RQP other than Dr. R.N. Singh, RQP who prepared the mine plan before joining SEAC as member. The fresh approved mine plan should be prepared taking consideration District Survey Report (DSR).

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

- 2. Chaita & Khairbera Balu Ghat Sand Mining Project on Jamunia River of Mr. Lal Chand Mahto at Village- Chaita & Khairbera, Topchanchi, Dhanbad (9.06 Ha).**

PP has submitted revised certificates from CO & DFO. DFO letter does not contain Khairbera in certificate. CO letter does not contain letter no. and date. The explanation for calculation of resource in absence of DSR.

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

- 3. Proposed 25,200 TPA Crude Coal Tar Distillation unit of M/s Vedang Hydrocarbon Pvt Ltd at Bokaro Industrial Area Development Authority (BIADA), Village- Gorabail, Chas, Bokaro.**

PP was not present.

- 4. Proposed Capacity increase of the existing Cement Grinding / Blending unit from 2.1 MTPA to 3.0 MTPA of M/s Dalmia Cement East Ltd at Village- Kanari, Bokaro Industrial Park, Chas, Bokaro.**

PP was not present.

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5. **Expansion of Cement Grinding Unit of M/s Nuvoco Vistas Corp. Ltd (Formerly Lafarge India Ltd) from 4.6 to 6.6 MTPA at Jojobera Cement Plant at Village- Jojobera, Rahargora, Jamshedpur, East Singhbhum.**

The proponent submitted all the replies sought earlier and deliberated in the presentation made. The document submitted regarding the distance from the project site to the Dalma Wild Life Sanctuary. Members examined and found unsatisfactory because the distance calculated from the chimney and not from the nearest outer boundary of the project area. This is erroneous in terms of prevalent rules & hence proponent was asked to submit the corrected document and also asked to additional informations :

1. Amount of solid waste (fly ash or any other waste) utilized by the cement industry.
2. Source of waste with name of generating industry.
3. Lease land for the industry.

6. **Ulatu Stone Mine of Sri Niraj Kumar Singh at Village- Utlatu, Namkum, Ranchi (5.82 Ha).**

In view of the public representation, a site visit is recommended. The site visit will be conducted by some Members of SEAC. Project Proponent was asked to submit the certificate of CO regarding class of land (whether Jangal Jhari or not).

Once the PP provides the information and site visit report is submitted, The SEAC will examine the case.

7. **Chatrogoga Stone Mine of M/S Ashirvad Stone Works Village Chatrogoga, Sahibganj Mandro Sahibganj Jharkhand. (11.00 Acre).**

Project Proponent was asked to submit the certificate of CO regarding class of land (whether Jangal Jhari or not).

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

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

Project Proponent was asked to submit the certificate of CO regarding class of land (whether Jangal Jhari or not).

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

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

Project Proponent was asked to submit the certificate of CO regarding class of land (whether Jangal Jhari or not).

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

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

Project Proponent was asked to submit the certificate of CO regarding class of land (whether Jangal Jhari or not).

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

11. Hazam Stone Deposit M/s Tangent Construction India Pvt. Ltd at Village Hazam, Tipudana, Ranchi (15.37 Ha).

Project Proponent was asked to submit the certificate of CO regarding class of land (whether Jangal Jhari or not).

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

12. Manatu Stone Deposit of Sri Shabu K. Sankaran at Village- Manatu, Kanke, Ranchi (2.53 Ha).

Project Proponent was asked to submit the certificate of CO regarding class of land (whether Jangal Jhari or not).

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

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

This is a Stone Mining Project for having an area of 3.61 Ha [J.B. No. 6, Plot No.- 52, J.B. No. 18, Plot No. 54 (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 60.00 Lakh 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

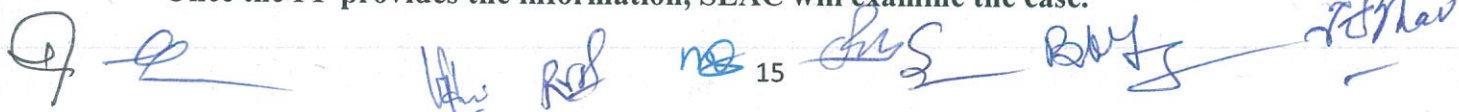
Year-wise Production as per Approved Mining Plan Report for five years is as follows

1 st Year	:	1,55,211 t
2 nd Year	:	1,55,181 t
3 rd Year	:	1,55,202 t
4 th Year	:	1,55,289 t
5 th Year	:	1,55,235 t

The daily production as per Form I is 518 tonnes.

Project Proponen has submitted certificates from DMO (Letter No.-524, Dated- 09.02.16), DFO (Letter No.- 116, Dated- 20.01.16) and CO (Letter No.- 428, Dated- 01.09.17). PP was also asked to submit the certificate of CO regarding class of land (whether Jangal Jhari or not).

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

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14. Common Bio-Medical Waste Treatment Facility Medicare Environmental Management Pvt. Ltd at Sindri Industrial Area, Dhanbad, Jharkhand.


The Proponent presented the details of the project proposal and site selection, as the proposed area is 300 m from round the river.


A site visit was required to ascertain the ground conditions. SEAC member will visit the site & submit the report immediately.

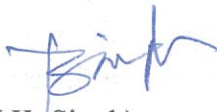
On submission of the required documents & finding satisfactory, TOR will be recommended.


The meeting concluded with thanks to all present.

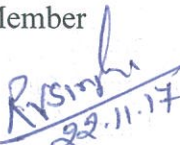

(Dr. B.K. Tewary) 22.11.2017
Member



(S.P. Srivastava) 22-11-17
Member

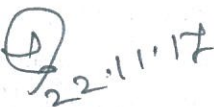

(Dr. R. N. Singh) 22/11/17
Member



(Y.K. Singh)
Member


(Dr. V.P. Sinha)
Member


(Dr. R. V. Singh) 22.11.17
Member


(M.S. Bhagwat)
Member


(Om Prakash)
Member Secretary


(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 PP should submit the result of the application regarding the distance from the Udhwa Bird Sanctuary. The provision of the OM no. J-11013/41/2006-IA.II(I), dated 02.12.2009 of MOEF will be applicable.
6. 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.
7. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
8. 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.
9. 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.
10. 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.
11. Catch drains and siltation ponds of approved size to contain silt & water and its location shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the nearby agricultural fields, and other water bodies. The water so collected should be utilized for watering the haul roads, green belt development etc. A periodical report shall be sent. The drains shall be regularly desilted particularly after the monsoon and maintained properly.

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Manager

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12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
18. 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.
19. 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.
20. Drilling shall either be operated with the dust extractors or equipped with water injection system.
21. 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.
22. 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.
23. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
24. 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.

25. Proper Safety measures as per statutory requirement shall be implemented around the mined out Pit prior to closure of site.
26. 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.
27. 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.
28. The Project Proponent shall submit six monthly report on the expenditure incurred on environmental management plan submitted by them.
29. 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.
30. 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.

④

M. Chatterjee - H. C.

R. D.

E.

S. M.

S.

B. M.

M. M.

11. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or at least Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA / JSPCB and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO₂ ,NO_x (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

C. Other points

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

Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.

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

(A)


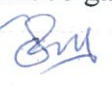
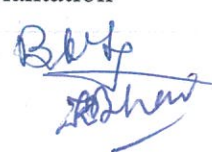
Mahaapatra      

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.
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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.
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24. Proper Safety measures as per statutory requirement shall be implemented around the mined out Pit prior to closure of site.

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.
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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.
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4. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
5. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
6. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
7. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
8. Personnel working in dusty areas should be provided with protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Detailed report shall be sent to Pollution Control Board periodically.
9. Dispensary facilities for First Aid shall be provided at site.
10. A separate environmental management / monitoring cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
11. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi. PP shall carry out CSR



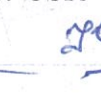














activities as per Government Guidelines (%of Profit / turnover) or at least Rs 1 per ton whichever is higher.

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

C. Other points

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

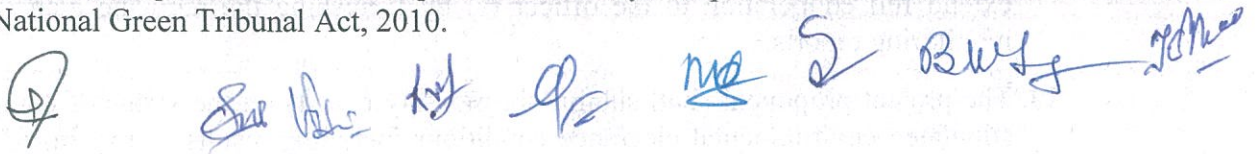
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Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.

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.



Proceeding of 42nd SEAC meeting held on 20-21st April, 2017 under the Chairmanship of Chairman, SEAC in Conference Hall of SEAC premise.

The 42nd meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 20th and 21st April, 2017 under the Chairmanship of Sh. K.P. Bhawsinka in the Conference Room at SEAC, Ranchi.

1. Shri K.P. Bhawsinka - Chairman
2. Dr. B.K. Tewary - Member
3. Shri R.N. Singh - Member
4. Shri S.P. Shriwatav - Member (Present 20.04.2017)
5. Dr. R.V Singh - Member
6. Shri M.S. Bhagwat - Member
7. Shri Om Prakash, - Member Secretary

Various projects which were received by SEIAA after the previous SEAC meeting held from 16th and 17th January, 2017 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 informations / 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:-

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

1. Majurahi Stone Deposit of M/s Maa Guru Construction at Village- Majurahi, Thana- Nawdiha Bazar, Dist.- Palamu, Jharkhand (5.868 Ha / 14.50 Acre).

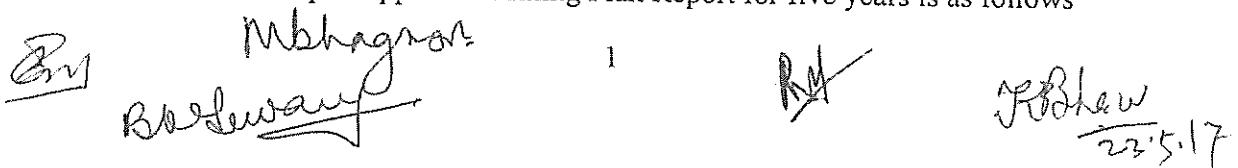
This is a Stone Mining Project for having an area of 5.868 Ha [Khata No.- 06, Plot No.- 121]. The committee noted that as per Form I it is a proposal for new lease for which PP is seeking EC. Considering the fact that it is B2 Category of Project - as per MoEF & CC Notification dated 15.01.2016.

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 2.65 Crore and a provision of Rs 3.77 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	45,74,234 t
Mineable Probable Reserve	:	11,480 t

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

The bottom of the page contains several handwritten signatures and initials. From left to right: a signature that appears to be 'Em', a signature 'Mbhagnat', a signature 'Bodhwan', a signature 'RM', and a signature 'J.P. Shaw' dated '23.5.17'. There is also a small number '1' written in the center.

10. Ground coverage for various facilities to be completely defined.
11. Certificate from CO regarding class of land (Building site & approach road).
12. NOC from DFO regarding the proposed land and its approach road is not a notified forest..
13. Land value certificate form DC / Competent authority to substantiate the estimated land value indicated as Rs. 46 crore, which is about 32% of project cost in the submitted documents.
14. Adjoining existing pucca / permanent structures around the proposed building to examine its safety, stability during deeper excavation for the basement of the proposed structure.
15. Various structures indicated / conditions imposed by fire brigade office in NOC to be indicated in the scheme.
16. Adityapur Industrial Area has large number of industries and populations around and as such competitive users of the water resources be detailed and impact of this on the water quality and quantity needs to be addressed .

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

2. M/s Balmukund Sponge & Iron Pvt Ltd at Village- Manjhladih, Tehsil- Giridih, Dist.- Giridih, Jharkhand.

The proponent has not nether enclosed the required land acquisition related documents nor those substantiating significant progress towards land acquisition has been provided by the project proponent.

As per the MOEF & CC guidelines, no proposal can be heard without submitting concrete evidence of having acquired land for the project.

? [The office may communicate information required if the proponent has submitted the land acquisition documents.

After the presentation made the PP was also asked to submit following additional information:-

1. Details of peripheral industry present in the area.
2. Revised Form-I, which is totally erroneous.
3. How 10 KLD of water to be utilised in the industrial use has been calculated.
4. Furnace oils its quantity & quality.
5. Point emission & area emission, to elaborate.
6. Alternate site should also be proposed and as mentioned in Environmental Sensitive II (12) this site is subsidence prone due to under ground mines. So please justified the selection of this site only.
7. Details of mitigation activities.
8. Details of proposed plantation in the area.

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

3. Simariya Stone Deposit of M/s Pawanputra Stone Works at Village- Simariya, Thana- Jirwabari, Dist.- Sahibganj, Jharkhand (6.07 Ha).

PP was also asked to submit following additional information:-

1. Annexure I & II as per SEIAA guideline.
2. Certificate of CO regarding contradictory distance from Habitation, Dam, River, etc.. provided in NOC, to be clarified by DC.
3. The report is more of a cut and paste approached and as such realistic data of land use, flora and fauna be provided.

S
22/5/17

By
B. B. B. B.

M. Mahapatra
3

R. B.

J. P. B. B.
23/5/17

The Project Proponent have not clarified the type of ^{RC}incinerator design and how they will achieve the operating standards to be maintain as also the sensor to be deployed.

PP was also asked to submit additional information:-

1. NABET Consultant Accreditation was not valid on the date of presentation.
2. Suitability of land use proposed for the purpose.
3. Collection process of the biomedical wastes & transport of waste.
4. Amount of waste generated –survey and present waste collection status is incomplete.
5. Characteristics of waste needs to be properly addressed.
6. No. of people / industries residency in the vicinity of the proposed land site.

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

13. Proposed Capacity increase of the existing Cement Grinding / Blending unit from 2.1 MTPA to 3.0 MTPA of M/s Dalmia Cement East Limited at Village- Kanari, Bokaro Industrial Park, Tehsil- Chas, District- Bokaro, Jharkhand.

PP was also asked to submit additional information:-

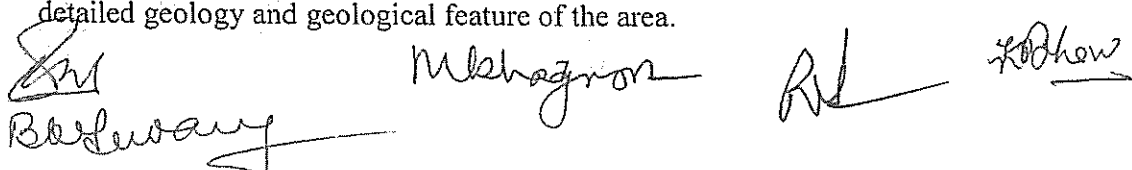
1. Environmental Clearance compliance status report not clearly addressed, since it is a running unit.
2. State Pollution Control Board condition & its compliance.
3. Environment cost – proof of utilization.
4. CSR records showing the CSR activity undertaken for the present operation of the plant.
5. Ash utilization details of the present plant.
6. Fugitive emission details in the process of the existing plant operation.
7. Public hearing will show the opinion of the habitants around the area and as such should not be omitted.
8. Authorization letter for use of water.
9. People's acceptance residency in the area.
10. Equipment with capacities.
11. Bag / Fabric filter capacity / nos.
12. Coal ultimate & proximate analysis.
13. Coal consumption / cement.
14. Power consumption / cement.
15. Fugitive dust suppression – with equipment and capacity.
16. Noise levels & mitigation.
17. Rain water harvesting measures.
18. Raw material Linkages certificates and quantities required TPA / TPD
19. Insurance for life and property internal region.

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

14. Rajbandh Stone Mine of M/s Mandhan Minerals Corporation at Village- Rajbandh, Thana- Pakur, Dist.- Pakur, Jharkhand (15.07 Ha).

PP was also asked to submit additional information:-

1. Revised Environment Management Plan cost.
2. Revised Form-I.
3. Geological Exploration: .Exploration- date of survey for preparation of mining plan. Give detailed geology and geological feature of the area.



4. Size of the quarry at the end of the plan period and number of the benches.
5. The budgetary estimate of environment management needs to be realistic.
6. Source of water has been suggested from existing mining pit, it indicate the mining depth has crossed the water table.
7. Correct geological succession.
8. CSR budget should be made in such a way that it is measurable.
9. The budgetary estimate of environment management needs to be realistic.
10. Certificate from CO regarding class of land.
11. The PP should undertake studies on Road Traffic Impact within their study area of 10 km due to their projects in light relevant IRC guidelines updated.

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

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

PP was also asked to submit additional information:-

1. Certificate from CO regarding class of land.
2. Geological Exploration: .Exploration- date of survey for preparation of mining plan. Give detailed geology and geological feature of the area.
3. Give correct Geological succession.
4. Give Reference of consulted literature you have followed. Exploration data missing.
5. CSR budget should be made in such a way that it is measurable.
6. The budgetary estimate of environment management needs to be realistic.
7. The PP should undertake studies on Road Traffic Impact within their study area of 10 km due to their projects in light relevant IRC guidelines updated.

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

16. Gangupara Bedo Stone Mine of Mainul Ansari at Village- Gangupara Bedo, Tehsil- Pathna, Dist.- Sahibganj, Jharkhand (2.025 Ha).

The production level of the year 2008 – 2009 is very high and needs attention. PP was also asked to submit additional information:-

1. Certificate from CO regarding class of land.
2. Geological Exploration: .Exploration- date of survey for preparation of mining plan. Give detailed geology and geological feature of the area.
3. The present status of the area in terms of environment and its long negligence has to be properly assessed.
4. Exploration data missing.
5. CSR budget should be made in such a way that it is measurable.
6. The PP should undertake studies on Road Traffic Impact within their study area of 10 km due to their projects in light relevant IRC guidelines updated.

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

17. Idpe (Gadai Bhatta) Stone Mine of Sri Ramesh Kumar Dokania at Village- Idpe (Gadai Bhatta), P.S.- Ranga, Dist.- Sahibganj, Jharkhand (2.90385 Ha / 7.17 Acre).

B. B. B. B.

M. B. B. B.

J. B. B. B.

PP was also asked to submit additional information:-

1. Certificate from CO regarding class of land.
2. Geological Exploration: .Exploration- date of survey for preparation of mining plan. Give detailed geology and geological feature of the area.
3. Reference of consulted literature followed be provided.
4. Exploration data missing.
5. land use and flora and fauna of the area should be realistic.
6. The PP should undertake studies on Road Traffic Impact within their study area of 10 km due to their projects in light relevant IRC guidelines updated.

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

18.Siddhpahari Stone Mine of Sri Lutfal Haque at Villlage- Siddhpahari, Block – Pakur, Dist.- Pakur, Jharkhand (5.46 Ha).

PP was asked to submit revised Form-I, Environment Management Plan and Pre Feasibility Report.

The PP should undertake studies on Road Traffic Impact within their study area of 10 km due to their projects in light relevant IRC guidelines updated.

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

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

PP was also asked to submit additional information:-

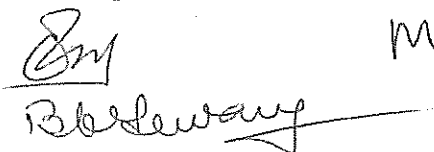
1. Certificate of CO regarding contradictory distance from Habitation, Dam , River, etc.. provided in NOC, to be clarified by DC.
2. Exploration- date of survey for preparation of mining plan.
3. Detailed geology and geological feature of the area.
4. Reference of consulted literature followed along with Exploration data
5. The land use, flora & fauna of the area should be realistic.
6. The PP should undertake studies on Road Traffic Impact within their study area of 10 km due to their projects in light relevant IRC guidelines updated.

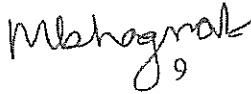
Once the PP provides thesaid information, SEAC will examine the case.

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

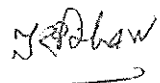
PP was also asked to submit additional information:-

1. Certificate of CO regarding contradictory distance from Habitation, Dam , River, etc.. provided in NOC, to be clarified by DC.
2. Exploration- date of survey for preparation of mining plan.
3. Detailed geology and geological feature of the area.
4. Reference of consulted literature followed.
5. The report is more of a cut and paste approached and as such realistic data of land use, flora and fauna be provided.









RIVER SAND MINING

River sand mining which has given rise to various problems are (i) river bank erosion (ii) river bed degradation (iii) river buffer zone encroachment and (iv) deterioration of river water quality. Very often over-mining occurs which jeopardizes the health of the river and environment in general.

River sand mining plan for three years are given based on replenishment in successive years, but calculation for replenishment/ sediment yield per year is not clear. As the sedimentation /replenishment or sediment yield in the river depends on (i) drainage area of the river (ii) mean annual run off (rain fall in the catchment area) (iii) velocity of the flow of the river. All these parameters require detailed study. Generally it is told during presentation that there was no flow in the river at the time of survey. Velocity of the flow of the river is an important factor in producing sediment yield / sedimentation in the river. This may be the reason that there was confusion in showing even the flow direction of the river. Some other important suggestions which should be included are:

- (a) GPS reading of the Boundary Pillars on the area map.
- (b) Correct flow direction of the river,
- (c) Parameters considered for Geological reserve (proved) and mineable reserve ,
- (d) Safety zone should be $1/5^{\text{th}}$ of the river width or 15 m whichever is higher,
- (e) Thickness of the sand deposit with vertical section litho log at three locations.
- (f) Nos. of the sand mining project in the upper stream of the river
- (g) Thickness of the sand, grit ,gravel and silt bed left after proposed sand mining
- (h) Details of the fauna of the left zone and affect of mining on the fauna
- (i) Details of the riparian fauna and flora in the project area.

STONE MINING

A mining plan is a document of development and exploitation of a deposit during its economic life including present mining plan. Geological study includes structure, size, shape, chemical analysis, petrological study, mineral grade, density, reserve quality and quantity.

At the time of preparation of mining plan for minor mineral, three dimensional configuration of the deposit can be achieved through sampling, trenching, pitting and drilling.

It can not be achieved in one day by visiting adjoining areas. Nomenclature of the minor mineral deposit (project) should be clear. It should not be vague like "stone mining".

1. The proponent/consultant should give proper nomenclature of the minor mineral of the so called "Rock deposit".
2. The proponent/ consultant has to give UNFC of mineral reserve/ resource .(Guideline underMCDR).

The UNFC consist of a three dimensional system, Geological assessment ,Feasibility assessment and Economic validity . The process of Geological assessment is conducted in three stages as (i) reconnaissance,(ii) prospecting (iii) general exploration and (iv) detailed Exploration. These successive stages of geological assessment create data with a clearly defined degree of Geological assurance.

The typical stages of Feasibility assessment consists of geological study as initial stage followed by Pre-feasibility study and feasibility study.

The degree of Economic validity is assessed in course of Pre-Feasibility studies.

Thus it is a three degree code based system. The highest category of reserve under UNFC system will be (111) and the lowest category (334).

3. The Feasibility study assesses in detail the technical soundness and Economic validity of a mining project. Cost data must be reasonably accurate.
4. Removal of upper fracture zone in the hard rock area will hit an Environmental hurdle. It is well known fact that in the hard rock terrain the weathered or fracture zone contain maximum amount of water. Hard rock areas like Rajmahal Trap are devoid of water except in fracture and intertrpcean zones. If there is no water in the upper fracture zone in the area, it indicate water level has been further lowered due to mining activity in the area. It is a serious situation and need further investigation. Depletion in water in the upper fracture or weathered zone may cause increase in concentration of arsenic and Floride in ground water.

So, water analysis is required

5.The poor citizen of the area will be hit the hardest. So, for working towards sustainable Socio-economic development and improved quality of life of a citizen, proper amount may be provided for CSR.

6.Geological Survey of India has not carried out Geological Exploration in this area.