

MINUTES OF THE 46th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 27TH AND 28TH JULY, 2017

The 46th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 27th and 28th July, 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. Shriwataw - Member
5. Dr. V.P. Sinha - Member
6. Dr. R.V Singh - Member
7. Shri M.S. Bhagwat - Member
8. Shri Om Prakash, - Member Secretary (Present on 28.08.17)

Various projects which were received by SEIAA after the previous SEAC meeting on 10th and 11th July, 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:-

A. Matter referred by SEIAA

1. Amjhar Stone Mine of Sri Raghavendra Kumar Pandey at Vill.- Amjhar, Pargha, Dhanbad, (0.526 Ha).

In this case EC was granted by earlier SEAC in its meeting held on 19th to 23rd November, 2015 and also SEIAA recommended on 23.12.15. Later JSPCB identified that in this case forest area distance is from mines periphery is 12 meters only as per DFO.

Present SEAC / SEIAA follow the distance of mines from forest as 50 meters for renewal cases & 250 meters for new case. Whereas earlier SEIAA followed as is where distance for renewal cases is. In view of above mentioned prevailing practise this case is rejected.

Secondly, mines production after 2012 was not observed. Since this mines is a minor mineral for which EC notification was started after 2012 and as such this issue is irrelevant.

2. Domchanch Stone Mine of M/s Kamal Prabhat at Vill.- Domchanch, Koderma, (2.226 Ha).

In this case EC was granted by earlier SEAC in its meeting held on 20th to 23rd July, 2015 and also SEIAA recommended on 13.08.15. Later JSPCB identified that in this case forest area distance is from mines periphery is 10 meters only as per DFO.

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Present SEAC / SEIAA follow the distance of mines from forest as 50 meters for renewal cases & 250 meters for new case. Whereas earlier SEIAA followed as is where distance renewal cases is. In view of above mentioned prevailing practise this case is rejected.

Secondly, mines production after 2012 was not observed. Since this mines is a minor mineral for which EC notification was started after 2012 and as such this issue is irrelevant.

3. Nipania Stone Mine of M/s Kamalakar Mandal & Tarapada at Village- Nipania, P.O.- Pargha, Thana- Baliapur, Dist.- Dhanbad (0.81 Ha).

As per earlier deliberation the proponent was asked to submit the Form-I & PFR. The proponent has since submitted the Corrected Form-I & PFR. After the deliberation the committee decided that EC may be issued correctly the above address of proponent.

This is a Stone Mining Project for having an area of 0.81 Ha [Khata No.- 54, Plot No.- 01 (P)]. The committee noted that as per Form I it is a proposal for existing mine lease for which PP is seeking EC. The lease was valid w.e.f. 27.10.2008 to 26.10.2018.. 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 60.00 Lakh and a provision of Rs 2.57 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 1,56,838 t

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

1 st Year	:	30,780 t
2 nd Year	:	12,150 t
3 rd Year	:	9720 t
4 th Year	:	7088 t
5 th Year	:	7088 t

The daily production as per Form I is 103 tonnes.

The document has been submitted. The information was examined and found to be satisfactory.

Based on the information provided the Committee decided that the proposal for Nipania Stone Mine of M/s Kamalakar Mandal & Tarapada at Village- Nipania, P.O.- Pargha, Thana- Baliapur, Dist.- Dhanbad (0.81 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 at Annexure I.

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4. Sirango stone deposit of M/s Eco Tech Coal Industries Pvt Ltd. (Shri Kavach Kumar Nirmal) at Village- Sirango, Block- Kanke, Dist.- Ranchi, (16.39 Ha).

This is a Stone Mining Project for having an area of 16.39 Ha [Khata No.- 83, Plot No.- 1469 (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 20.00 Lakhs and a provision of Rs 6.00 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 2,04,83,374 t

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

1 st Year	:	16,28,386 t
2 nd Year	:	16,27,719 t
3 rd Year	:	16,25,125 t
4 th Year	:	16,48,401 t
5 th Year	:	16,21,166 t

The daily production as per Form I is 5495 tonnes.

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

1. DMO letter on status of other mines around the area has not been submitted.
2. Coordinates of all corner points not available.
3. Presentation material & even presentation of drawings not legible.
4. The fugitive dust load generated during excavation loading / unloading to be estimated.
5. Transportation route of 0.48 km to be mentioned.
6. Slope from South East to North West not identified from contour plan & access to contour plan not visible.
7. Geological section not visible.
8. RQP should be present to clarify the quarries with mining plan.

The documents related to the above mentioned discrepancies have been submitted. The documents were examined and found to be satisfactory.

Based on the documents provided the Committee decided that the proposal for Sirango stone deposit of M/s Eco Tech Coal Industries Pvt Ltd. (Shri Kavach Kumar Nirmal) at Village- Sirango, Block- Kanke, Dist.- Ranchi, (16.39 Ha) be recommended for

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consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given at Annexure I.

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

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

This is a Stone Mining Project for having an area of 6.682 Ha [Chapandey 10 J.B. No. 11, Plot 211, J.B. No. 13, Plot 212 to 217, J.B. No. 25, Plot 218, 221, J.B. No. 36, Plot 225, Gangupada Bedo 11 J.B. No. 09, Plot 19 (P), 23 (P) & 24 (P)]. The committee noted that as per Form I it is a proposal for existing mine lease for which PP is seeking EC. The lease was valid w.e.f. 26.05.2008 to 25.05.2018. 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 Lakhs and a provision of Rs 2.50 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 35,28,465 t

Mineable Probable Reserve : 18,300, t

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

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

The daily production as per Form I is 1184 tonnes.

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

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 have been followed. Exploration data missing.

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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.

The documents related to the above mentioned discrepancies have been submitted. The documents were examined and found to be satisfactory.

Based on the documents provided the Committee decided that the proposal for Sirango stone deposit of Chapandey Stone Mine of M/s Maa Jagdamba Stone Works at Village- Chapandey 10 & Gangupada 11, Thana- Ranga, Dist.- Sahibganj, (6.682 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 at Annexure I.

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

This is a Stone Mining Project for having an area of 6.07 Ha [Plot No.- 155 (P), 159 (P), 160, 161 (P), 163 (P), 171, 172, 175 (P) to 177 (P), 178 to 181, 190 (P) to 193 (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 Lakhs and a provision of Rs 2.50 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve	:	29,25,254 t
Mineable Probable Reserve	:	1,99,249, t

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

1 st Year	:	2,19,264 t
2 nd Year	:	2,19,260 t
3 rd Year	:	2,19,260 t
4 th Year	:	2,19,260 t
5 th Year	:	2,19,262 t

The daily production as per Form I is 731 tonnes.

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

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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 approach and as such realistic data of land use, flora and fauna be provided.
4. Name of the prospecting Agency.
5. Exploration data missing (pitting, trenching or drilling).
6. Geological features not described.
7. Use of the product as dimension stone or ballast or boulders not clear. Needs a study on the suitability of the stone as dimension stone.
8. The environmental cost estimate and CSR should be realistic and measurable milestone be provided.
9. 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.

The documents related to the above mentioned discrepancies have been submitted. The documents were examined and found to be satisfactory.

Based on the documents provided the Committee decided that the proposal for Sirango stone deposit of Simariya Stone Deposit of M/s Pawanputra Stone Works at Village-Simariya, Thana- Jirwabari, 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 at Annexure I.

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

1. **LPG Bottling Plant of M/s Hindustan Petroleum Corporation Limited at Adityapur Industrial Area, Large Sector, Vill- Gamharia, P.O- Gamharia, Dist.-East Singhbhum, Jharkhand.**

M/s Hindustan Petroleum Corporation Limited has existing 2x50 MT LPG storage bullets. HPCL had earlier obtained ToR vide letter no.- EC/SEIAA/2014-15/302/2014/886, dated- 01.05.2015 for 3x200 MT.

Now, HPCL proposes for storage capacity of Jamshedpur LPG Bottling Plant by providing additional 3 nos. of Mounded Storage Vessels (MSV) of capacity 500 Metric Tonnes each, instead of 3x200 MT. The total bottling capacity of the plant will be 60,000 TPA.

The case is pertaining to storage and bottling of LPG hence is listed as SN 6 (b) of EIA Notification 2006 and is required to obtain prior EC under the provisions of EIA Notification. The capacity is proposed as 1500 MT (3 x 500 MT) Mounded Storage Vessels. The proposed project is an expansion of existing LPG storage from 100 MT (2x50 MT) Storage in bullets and increasing the bottling capacity from 15600 TPA to 28000 TPA. LPG shall be brought in Bulk LPG Tanker. The plant is proposed at Adityapur Industrial Area, Large Sector, Vill- Gamharia, P.O- Gamharia, Dist.-East Singhbhum, Jharkhand which is located at a distance of 0.84 Km from Birajpur Railway Station. Sonari Airport is at a distance of 10.45 Km. It was informed that the additional units are to be installed in the existing area of 25.00 acres. Source of water is bore

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well approx. requirement for Operation phase is 6.0 KLD (Domestic – 2.0 KLD and Washing – 4.0 KLD). The project cost is Rs 22.00 Crores.

The Project Proponent has informed that this project is located in the industrial area, hence public hearing is not required, which has also been affirmed by SEIAA, in its meeting dated 26.12.2015 [Item no.- 3(xi)] After deliberations committee has approved the TOR to carry out EIA / EMP with inclusion of following points.

The project authorities along with their consultant M/s SV Enviro Labs & Consultants, Visakhapatnam gave a detailed presentation on the salient features of the project and its environmental impact evaluated proposed environmental protection measures to be undertaken along with the draft Terms of Reference for preparation of EIA / EMP report.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held during 27th and 28th July, 2017 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study in Annexure - II.

2. Integrated Municipal Solid Waste Management Scheme of Giridih Nagar Panchayat at Village- Mohanpur, Dist. - Giridih.

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 the proposed project falls under item 7 (i) (Common Municipal Solid Waste Management Facilities) as per EIA notification, 2006.

The proposed site for sanitary landfill development for disposal of municipal solid waste from Giridih Nagar Parishad present no activities is being carried out at the land. The site is approx 6.00 KM away from the main town.

The present scenario of Solid Waste Management in the city of Giridih is not up to the mark and need substantial improvement. Solid Waste Management is a responsibility of the Giridih Municipal Council and in spite of the substantial expenditure incurred on it, proper sanitary condition is not achieved. The Giridih town generates about 28.53 MT per day of solid waste. The main sources of solid waste generation are residential areas, commercial markets, slums, institutional organization like hospital, hostels and restaurants, small and big scale industries, construction and demolition waste (debris) etc., but the source wise quantity and quality data were not available with the authorities. This Integrated Municipal Solid Waste Management Project is designed for 20 years from the base year 2015 till year 2035. Total waste generated in year 2035 is 40.4 Mt/day.

Total waste generation from zone 1 is 8.97 MT out of that 6.37 MT of waste is generated from Household whereas waste generation from zone 2 is 8.27 MT out of that 5.88 MT of waste is generated from Household whereas waste generation from zone 3 is 11.84 MT out of that 8.42 MT of waste is generated from Household.

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Total Bio-degradable waste out of House hold waste of Zone 1, 2 & 3 is 4.46, 4.12 MT & 5.90 MT respectively. Whereas, Total Recyclable and inert waste out of House hold waste of Zone 2 & 3 is 1.91, 1.77 MT & 1.55 MT respectively. Whereas non-household waste street sweepings from zone 1 & 2 are 2.58, 0.99 and 2.38, 0.82 MT respectively.

Biodegradable waste will proceed through biomethanation and mechanical composting. Recyclable waste shall be segregated and stored separately and would be sold through designated authorized vendors.

The salient features of the Integrated Municipal Solid Waste Management Scheme are as follows:

S. No.	Information	Details
1.	Project Name	Municipal Solid Waste Management Project at Plot No. 113, Khata No. 04, Village- Mohanpur, Dist.- Giridih, Jharkhand.
2.	Area	Total Area - 7.10 Acres Capacity of Processing Facility : Compost Plant - 50 MT / day Biomethanation Plant capacity - 3.4 TPD Sanitary Landfill capacity (for 13.5 years) - 52,719 cum
3.	Name of the client	Giridih Nagar Panchayat
4.	Location of site	Village- Mohanpur, Dist,- Giridih, State- Jharkhand.
5.	Water Requirement and its source	The Total water requirement will approx 20 KLD
6.	Power supply and its source	400 KVA Source - Jharkhand State Electricity Board (JSEB)
7.	Project cost	14.95 Crores
8.	Nearest Railway Station	Giridih Railway Station is approx 7.58 KM in SSE
9.	Nearest State Highway / National Highway	NH - 114 A is approx 3.4 KM towards SE
10.	Nearest Airport	Dhanbad Airport is approx 48.00 KM in SSE

The project authorities along with their consultant M/s Ascenso Enviro Pvt Ltd, Noida gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Terms of Reference for preparation of EIA / EMP report.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held

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during 27th and 28th July, 2017 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study in Annexure - III.

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

1. Stone Mines & Crusher of M/s Shri Vinayak Construction at Village- Rewaratu, Tehsil-Satbarwa, Dist.- Palamu, (9.50 Ha).

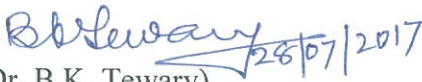
Re-examination of the recommendation based on the SEIAA observations –

- I. No mismatch in land use data. The difference lies in Hectore & Acres mentioned differently by RQP & EIA consultant.
- II. Lat. / Long. Coordinates of all corner points missing in EMP. The consultant stated that Lat. / Long. has been mentioned in corrigendum & accordingly corrected.
- III. Emission of different operation provided as per CMRI formula but suppression measures not addressed yet.

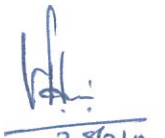
This will be addressed by consultant & agreed to submit in few days.

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

The meeting concluded with thanks to all present.


(Dr. B.K. Tewary)
Member



(Dr. R. N. Singh)
Member

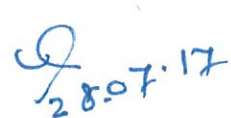

(Dr. V.P. Sinha)
Member


(Dr. R. V. Singh)
Member


(M.S. Bhagwat)
Member

—
(Om Prakash)
Member Secretary


(K.P. Bhawsinka)
Chairman

Present in Hon'ble High court
on 27.07.17. Hence could not
attend the meeting. 
28.07.17

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 near by 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.

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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 atleast 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.

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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.
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.

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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

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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.

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

1. Executive Summary of the project.

2. Introduction

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

3. Project Description

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

4. Site Details

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

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

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

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

6. Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be

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

7. Impact and Environmental Management Plan:

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor- cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards. Measures for fugitive emission control
- vi. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

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- vii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- viii. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- ix. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- x. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xi. Action plan for post-project environmental monitoring shall be submitted.
- xii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health

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

9. Corporate Environment Policy

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

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

11. Enterprise Social Commitment (ESC)

i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

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

13. A tabular chart with index for point wise compliance of above TOR.

14. Beside the above, the below mentioned general points should also be followed:

- a) A note confirming compliance of the ToR, with cross referencing of the relevant sections/pages of the EIA report should be provided.
- b) All documents may be properly referenced with index and continuous page numbering
- c) Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- d) Where the documents provided are in a language other than English, an English translation should be provided.
- e) The questionnaire for environmental appraisal of LPG Bottling projects as prescribed by the Ministry shall also be filled and submitted.
- f) All statutory clearances obtained for the project shall be included in the EIA report.
- g) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.

15. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.

16. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M), dated 12.01.2017.

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

1. The project should be designed based on the population projections as per Master Plan.
2. Submit a 10 km. radius map (on survey of India toposheet) showing co-ordinates of project site, national highway, state highway, district road/approach road, river, canal, natural drainage; protected areas, under Wild Life (Protection) Act, archaeological site, natural lake, flood area, human settlements (with population), industries, high tension electric line, prominent wind direction (summer and winter), effluent drain, if any and ponds etc. should be presented and impacts assessed on the same.
3. Details of alternative technologies viz. RDF shall also be evolved.
4. Details of storm water/ leachate collection from the composted area.
5. Details of monitoring of water quality around the landfill site. Water analysis shall also include for nitrate and phosphate.
6. Details of the odour and control measures to be adopted.
7. Details of impact on water bodies/rivers/ ponds and mitigative measures during rainy season.
8. Submit the criteria for assessing waste generation. Any segregation of hazardous and bio-medical wastes.
9. Submit the layout plan of project site showing solid waste storage, green belt (width & length, 33% of the project area), all roads, prominent wind direction, processing plant & buildings etc. should be provided.
10. Submit the land use certificate from the competent authority.
11. NOC from local or nearest airport within 20 km and any flight funnel restrictions.
12. Submit the status of ambient air quality and surface and ground water quality, soil type, cropping pattern, land use pattern, population, socio-economic status, anticipated air and water pollution.
13. Submit the topography of the area indicating whether the site requires any filling, if so, the details of filling, quantity of fill material required, its source and transportation, etc.
14. Details of impact on the drainage and nearby habitats / settlements (surroundings).
15. Details of surface hydrology and water regime and impact on the same.
16. Examine and submit the details of one complete season AAQ data (except monsoon) with the dates of monitoring, impact of the project on the AAQ of the area (including H₂S, CH₄).
17. Submit a copy of detailed plan of waste management.
18. Details of sanitary land fill site impermeability and whether it would be lined, if so details thereof.
19. Details of impact on environmental sensitive areas.
20. Details of rehabilitation/compensation package for the project effected people, if any.
21. Submit Environmental Management Plan and Environmental Monitoring Plan with costs and parameters.
22. Public hearing to be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.

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23. A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
24. Details of any litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
25. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
26. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Common Municipal Solid Wastes>".
27. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.
28. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.

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