

MINUTES OF THE 89th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 04TH, 05TH, 06TH and 07TH AUGUST, 2021

The 89th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 04th, 05th, 06th and 07th August, 2021 under the Chairmanship of Shri Ashok Kumar Singh, IFS (Retd.) in the Conference Room at SEAC, Ranchi.

The following members were present :

1. Shri Ashok Kumar Singh, IFS (Retd.) - Chairman
2. Dr. Kirti Avishek - Member
3. Shri Niranjan Lal Agarwalla - Member
4. Dr. Raju Kumar - Member
5. Dr. Ajay Govind Bhatt - Member
6. Shri Ashok Kumar Dubey, IFS - Secretary

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 23rd, 24th, 25th, 26th & 28th June, 2021. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite information / clarifications in the earlier meeting of SEAC, were also considered for appraisal. The Project Proponents have been asked to make technical presentation for the appraisal of their projects before the committee.

The following observations /recommendations were made during the presentation (Project -wise), as under:-

Day 1 : August 04, 2021 [Wednesday]

A. Matter referred by SEIAA

- i. **Amarpur Stone Mine of Shri Baidhanath Roy, Mouza : Amarpur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.27 Ha). (Proposal No. : SIA/JH/MIN/210354 /2021).**

The proposal was considered in the light of observations in 88th meeting of SEIAA held on 05-07 July, 2021, wherein it was observed that as per DFO, Dumka letter no. 1047, dated 27.05.2020 the proposed project falls within 250 m distance from forest land. These does not qualify guideline of distance criteria for consideration of proposal. Hence, committee is of the view that Project Authorities are required to obtain fresh DFO certificate for re-consideration.

- ii. **Jitpur Stone Mine of M/s RAN Enterprises, Mouza : Jitpur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.65 Ha). (Proposal No. : SIA/JH/MIN/195144 /2021).**

The proposal was considered in the light of 89th meeting of SEIAA held on 05-07 July, 2021 wherein in SEIAA has sought information why the recommendation has been made for the highest production level during the 05 years plan. The committee is of the view that mining activities and level of production are under taken as per approved mine plan which is for 05 years. The production levels per year may or may not be the same.

Hence, the project of mining is considered for the highest production per year as per the approved mine plan so as to enable the project to operate as per approved mine plan.



Hence, the project is again recommended to issue the corrigendum of EC in the light of previous decision taken in SEAC in 88th meeting held on 23, 24, 25, 26 & 28 June, 2021.

B. Consideration of Proposals

1. Tirildih-Turi Stone Deposit of M/s Kiran Construction & Infrastructure Pvt. Ltd at Village : Tirildih & Turi, Thana : Ghatsila, Dist. : East Singhbhum (8.90 Ha).

Name of the consultant : Crystal Consultants, Ranchi

This is a new project taken for appraisal on 04.08.2021.

This is a Stone Mining Project with an area of 12.00 Ha [Tirildih Khata no. : 233, Plot No.- 1226 (P) & Turi Khata no. : 190, Plot no. : 22, 51 (P), 190 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, East Singhbhum, Jamshedpur vide letter no. 2536, dated 19.09.2016. Nearest railway station is Haludpukhur Railway Station is about 7.5km away, the nearest Airport is Birsamunda Airport, Ranchi which is about 115km. Total water requirement is 20.5KLD (Drilling & Dust suppression : 10.0 KLPD, Plantation : 1.0 KLPD & Drinking / Domestic : 9.5 KLPD). Water will be drawn from nearby villages.

The allocated project cost is Rs 2.50 Crores and a provision of recurring cost Rs 4.17 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
22° 39' 36.58" N to 22° 39' 50.24" N	86° 09' 50.76" E to 86° 10' 10.57" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 16,99,980 cum

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

Year	Production of stone (Cum)
1 st	1,69,987.85
2 nd	1,69,978.92
3 rd	1,69,992.85
4 th	1,69,977.85
5 th	1,69,990

The proposed production capacity is 1,69,992.85 cum per annum. Life of Mine is 10 years.

DFO, Jamshedpur Division vide letter no. 209, dated 19.01.2016 certified that the distance of notified forest is more than 400 m from proposed project site.

DFO, Saraikela Division vide letter no. 2597, dated 25.11.2017 certified that the distance of notified forest is more than 400 m from proposed project site.

The CO, East Singhbhum vide letter no. 1146, dated 18.11.2015 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in Khatiyani.

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DMO, East Singhbhum, Jamshedpur vide memo no. 23, dated 08.01.2016 certified that altogether total mining in the area is more than 5 ha (13.46 Ha) in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of East Singhbhum district.

Specific observation of the committee during appraisal are as under :

- i. The project has been appraised for grant of ToR for carrying out EIA studies. Public Hearing is required to be conducted.
- ii. As the certificate from DFO wildlife has not yet been submitted the Project Authorities has been asked to submit the same before grant of ToR.

The project will be recommended for ToR after receipt of certificate from DFO Wildlife and standard undertaking.

2. Karso Stone Mine (with a mobile crushing unit) of Sri Shashikant Gupta, Village : Karso, Thana : Chainpur, Dist. : Palamau, Jharkhand (2.61 Ha).

(Proposal No. : SIA/JH/ MIN/194139 /2021)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 04.08.2021.

This is a Stone Mining Project with an area of 2.61 Ha [Plot No. : 2044(P) & Khata No. : 12]. The Letter of Intent (LoI) has been issued by District Mining Office, Palamu, Medininagar vide letter no. 776, dated 16.06.2020. Nearest railway station is Daltonganj Railway Station is about 24km away, the nearest Airport is Birsa Munda Airport, which is about 148km. Total water requirement is 5.35KLD (Potable : 1.35 KLD, Dust Suppression : 3.00 KLD & Green Belt : 1.00 KLD).

The allocated project cost is Rs 53.60 Lakhs and a provision of capital cost 6.90 Lakh, recurring cost Rs 2.50 Lakh per year has been allocated/apportioned for Environment management

Co-ordinates of the mine :

Latitude	Longitude
23°59'26.96"N	83°50'45.44"E
23°59'26.39"N	83°50'46.02"E
23°59'26.26"N	83°50'47.16"E
23°59'25.63"N	83°50'47.31"E
23°59'25.56"N	83°50'47.77"E
23°59'24.92"N	83°50'47.93"E
23°59'24.56"N	83°50'48.26"E
23°59'23.66"N	83°50'48.56"E
23°59'23.68"N	83°50'49.15"E
23°59'24.98"N	83°50'49.10"E
23°59'25.82"N	83°50'48.19"E
23°59'26.28"N	83°50'48.18"E

23°59'27.96"N	83°50'46.09"E
23°59'28.52"N	83°50'46.83"E
23°59'27.80"N	83°50'48.08"E
23°59'27.94"N	83°50'48.77"E
23°59'26.78"N	83°50'50.53"E
23°59'25.32"N	83°50'50.99"E
23°59'25.06"N	83°50'51.33"E
23°59'24.50"N	83°50'51.44"E
23°59'24.13"N	83°50'51.70"E
23°59'24.07"N	83°50'51.22"E
23°59'23.55"N	83°50'51.32"E
23°59'23.65"N	83°50'49.89"E
23°59'22.76"N	83°50'49.70"E
23°59'22.47"N	83°50'51.16"E
23°59'21.07"N	83°50'52.35"E
23°59'20.29"N	83°50'51.73"E
23°59'20.64"N	83°50'50.43"E
23°59'22.56"N	83°50'46.81"E
23°59'23.71"N	83°50'45.97"E
23°59'24.34"N	83°50'45.27"E
23°59'26.31"N	83°50'44.73"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,72,348 cum (7,62,575 tonne)

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

Year	Production of stone (cum)	Production of stone (tonne)
1 st	27,216	76,205
2 nd	27,235	76,258
3 rd	27,212	76,194
4 th	27,211	76,191
5 th	27,198	76,154

The proposed production capacity is 27,235 cum (76,258 tonne) per annum. Life of Mine is 10 years. Total waste 3259 cum and no dump area is proposed. Water table is at 25-30 m bgl where as the ultimate working depth is as 24 m. Hence, there will be no water table intersection due to mining activities.

Deputy Director, Palamu Tiger Project, North Division, Medininagar vide letter no. 1108, dated 07.11.2020 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

✓ 2021 2022 2023 2024 2025

2026 2027 2028 2029 2030

2031 2032 2033 2034 2035

2036 2037 2038 2039 2040

2041 2042 2043 2044 2045

DFO, Palamu Division vide letter no. 569, dated 13.02.2019 certified that the distance of notified forest is 550 m from proposed project site.

The CO, Chainpur, Palamau vide letter no. 37, dated 21.01.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Palamu vide memo no. 1523, dated 13.10.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum-District Magistrate, Palamau, Medininagar vide letter no. 465 / M, dated 17.06.21 has informed that this project is part of District Survey Report (DSR) at Palamau district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
 - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. The safety zone plantation has been proposed over 0.42 ha during the 1st -5th years and over 0.42 ha during the next 5 years. The PA's have been asked to carry out the safety zone plantation over the full area of 0.84 ha during the 1st year of operation only and also submit an undertaking in this regard.
- iii. The submitted documents show a proposal of crusher over an area of 0.02 ha within proposed lease. The PA's have been asked to revise the Form-I & PFR to include the crusher for grant of EC.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Karso Stone Mine (with a mobile crushing unit) of Sri Shashikant Gupta, Village : Karso, Thana : Chainpur, Dist. : Palamau, Jharkhand (2.61 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

3. Binderi Bandarkola Stone Mine of M/s Jai Maa Bhagwati Stone Works (Prop. : Sri Hiralal Bhagat), Village : Binderi Bandarkola, Tehsil : Borio, Dist. : Sahebganj, Jharkhand (2.835 Ha).

(Proposal No. : SIA/JH/ MIN/218535 /2021)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 04.08.2021.

This is a Stone Mining Project with an area of 2.835 Ha [Khata no. : 16, Plot No.: 147 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj vide letter no. 323, dated 19.03.2021. The nearest railway station is Teenpahar at a distance of 15 km and nearest airport is Birsa Munda Airport, Ranchi at a distance of 300 km. Total water requirement is 13.00 KLD (Potable Purpose : 1.0 KLD, Dust Suppression : 10.0 KLD and Green Belt : 2.0 KLD).

The allocated project cost is Rs 1.12 Crores and a provision of capital cost 16.00 Lakh. recurring cost Rs 4.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
25° 03' 07.39" N to 25° 03' 17.01" N	87° 37' 20.55" E to 87° 37' 27.81" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,97,943 cum (13,44,446 tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	49,655.92	1,34,071
2 nd	49,651.11	1,34,058

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3 rd	49,632.96	1,34,009
4 th	49,701.85	1,34,195
5 th	49,690	1,34,163

The proposed production capacity is 49,701.85 cum (1,34,195) per annum. Life of Mine is 10 years. Total waste 56,745 cum and dump area is 0.250 ha. Water table is at 97 AMSL where as the ultimate working depth is as 190 AMSL. Hence, there will be no water table intersection due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 1901, dated 05.11.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Sahebganj Division vide letter no. 2711, dated 21.10.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Borio vide letter no. 17, dated 26.12.2019 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.

DMO, Sahebganj vide memo no. 1169/M, dated 26.08.2019 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum-District Magistrate, Sahebganj vide letter no. 668/M, dated 09.07.2021 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.

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- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. The waste to be generated is projected as 56745 cum during the life of mine and during for the same is over an area of 0.25 ha. The PA's have been asked to provide a detailed waste handling proposal.
- iii. Detailed EMP & CER to be submitted.

The Project Authorities have submitted the above mentioned documents.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Binderi Bandarkola Stone Mine of M/s Jai Maa Bhagwati Stone Works (Prop. : Sri Hiralal Bhagat), Village : Binderi Bandarkola, Tehsil : Borio, Dist. : Sahebganj, Jharkhand (2.835 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

4. Rajhara North (Central & Eastern) Coal Block Opencast Project of M/s Fairmine Carbons Pvt. Ltd., Village : Pandwa & Rajhara, Tehsil : Pandwa & Nawa Bazar, Dist. : Palamau, Jharkhand (117.80 Ha).

(Proposal No. : SIA/JH/ CMIN/60295 /2021)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 04.08.2021.

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 1 (a) (i) Mining of Minerals (Coal) as per EIA Notification, 2006.

Project background :

M/s Fairmine Carbons Pvt. Ltd. for Coal Mining from Rajhara North (Central & Eastern) Coal Block Opencast Project along with Crushing & Screening plant, located at, Mauza – Pandwa &

Rajhara, Block – Patan & Bishrampur, District – Palamau, State – Jharkhand. Area : 105.65 Ha & additional 12.15 Ha will be acquired outside the allotted block.

Rajhara North (Central & Eastern) coal block was previously allocated to Mukund Ltd, Vini Iron & Steel Udyog Ltd. by Ministry of Coal, Govt. of India, vide letter no. **34011/35/2009 -cpam dt. 21.07.2008**. Allottees got Mining Plan approved with capacity of 0.75 MTPA by Ministry of Coal vide- MoC letter no. 13016/52/2008-ca-j (part) dt 16/12/2011. Subsequently, in compliance to the judgment of Hon'ble Supreme Court, allotment of coal blocks were cancelled. Now, pursuant to e-auction conducted by Ministry of Coal, M/s Fairmine Carbons Pvt. Ltd. became the successful bidder and subsequently block was vested vide Vesting Order no. na-104/11/2020-na dt.03.03.2021. Project area of the Mine is 117.80 ha. (105.65 Ha + 12.15 Ha additional for infrastructure) Approved Mining Plan was vested to the new allottee vide above mentioned Vesting Order.

Plot no. & Khata no. of the Blocks is given in below :

Rajhara :

Khata No. : 92, 136, 222, 237, 320, 328

Plot No. : 1597(P), 1600(P), 1603(P), 1604, 1605(P), 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614(P), 1618(P), 1625(P), 1642(P), 1643, 1677(P), 1678(P), 1683(P)

Pandwa :

Khata No. : 4,6, 7, 10, 14, 15, 17, 19,21,25, 27, 28, 29, 34, 36, 44,47,54, 57, 59, 60, 64, 68, 74,75,80, 81, 87, 88, 92, 93,97,102, 107, 108, 109, 110,112,117, 123, 127, 129, 130,131,132, 136, 140, 144, 146,148,149, 151, 152, 156, 157,158,161, 164, 168, 172 177,182,184, 187, 188, 192,201,206,211, 214, 216, 219 220,222,226, 227, 235, 236, 240,242,243, 244, 247, 251,253,256,261, 263, 264, 266, 267,268,270, 272, 273, 274, 275,277,278, 280, 281, 285, 286,288,290, 291, 293, 295 296,297,298, 299, 300, 301, 304,305,306, 307, 308, 309,311,312, 313, 314, 318, 319, 320,322,323, 326

Plot No. : 572(P), 659, 660, 662, 663, 667, 668, 670, 671, 673, 675, 676, 677, 678, 681, 683, 686, 687, 688, 689, 690, 692, 693, 694, 695(P), 707(P), 742(P), 743(P), 744(P), 745(P), 746(P), 747(P), 751(P), 758(P), 759(P), 760(P), 767(P), 768, 770(P), 778(P), 780(P), 781, 782, 783, 784, 785, 787, 789, 801(P), 803, 805, 806, 807, 808, 809, 810, 811, 813, 814, 815, 816, 817, 818, 819, 820, 823, 824, 825, 82, 827, 829, 830, 832, 833, 835, 836, 837(P), 838, 839(P), 842(P), 843(P), 944, 946(P), 947(P), 955(P), 956(P), 957(P), 958(P), 962, 963, 966, 967, 974, 975, 976, 977, 978, 980, 981, 984, 985, 986, 987, 988, 989, 991, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1025, 1026, 1027, 1028, 1029, 1030, 1031(P), 1032(P), 1033, 1034, 1035, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1051, 1056, 1061, 1065, 1066, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1080, 1082, 1084, 1086, 1087, 1088, 1091, 1094, 1095, 1098, 1105, 1108, 1112(P), 1115, 1119, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1129, 1137, 1138, 1139, 1144, 1145, 1154, 1157(P), 1159, 1160, 1161, 1169, 1171, 1172(P), 1175, 1176, 1178, 1181, 1212(P), 1219, 1220, 1222, 1242(P), 1247, 1248(P), 1250, 1251, 1256(P), 1261, 1262, 1263, 1267, 1277, 1279(P), 1283(P), 1285(P), 1368(P), 1478, 1485, 1898, 1260, 1472(P), 1481, 1474, 48(P), 657(P), 658(P), 661, 664(P), 665, 666, 669, 672, 674, 684, 691, 706(P), 769, 779, 786, 788, 790, 791(P), 802(P), 804, 812, 821, 822, 828, 831, 834, 943(P), 943(P), 943(P), 945, 953(P), 954(P), 954(P), 954(P), 954(P), 959(P).

960(P), 961, 964, 965, 968, 969, 970, 971, 972, 972, 972, 973, 979, 982, 983, 990, 992, 993, 994, 995, 1006, 1014, 1023, 1023, 1023, 1024, 1049, 1050, 1052, 1053, 1054, 1055, 1057, 1058, 1059, 1060, 1062, 1064, 1067(P), 1067(P), 1067(P), 1067(P), 1068(P), 1079(P), 1079(P), 1081, 1083, 1085, 1100, 1101, 1102, 1103, 1106, 1107, 1110(P), 1114, 1117, 1120, 1128, 1130, 1131, 1132, 1133, 1135, 1136, 1140, 1141, 1142, 1143, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1155, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1170, 1174, 1177, 1179, 1183(P), 1183(P), 1183(P), 1192(P), 1192(P), 1194(P), 1214(P), 1215, 1216, 1217, 1218(P), 1221, 1223(P), 1224, 1225, 1226(P), 1243, 1244, 1246, 1252, 1253, 1254, 1255(P), 1259, 1265, 1266, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1278, 1280(P), 1470(P), 1471(P), 1473, 1476, 1479, 1482, 1483, 1486, 1487(P), 1488(P), 1492(P), 1900(P), 679, 680(P), 682, 685, 1036, 1063, 1089, 1090, 1092, 1093, 1096, 1097, 1099(P), 1104, 1109(P), 1113, 1116, 1118, 1134, 1156, 1158, 1173, 1180(P), 1245, 1257, 1258, 1264, 1475, 1477, 1480, 1484, 1172(P), 954(P), 954(P), 954(P), 959(P), 960(P), 1180(P), 1182, 1183(P), 1183(P), 1183(P), 1184(P), 1067 (P), 1067 (P), 1067 (P), 1067 (P)

Executive Summary :

1.	General	
a)	Name and address of the Applicant Company	M/s Fairmine Carbons Pvt. Ltd. Address: Flat No. 401, 4th Floor, 'Crosswindz', 41, Court Road, Ranchi – 834001, Jharkhand.
b)	Name and address of the Block Allotted	Rajhara North (Central & Eastern) Coal Block Opencast Project. Located at: Mauza – Pandwa & Rajhara, Block – Patan & Bishrampur, Dist. : Palamau, State : Jharkhand.
c)	Applied/ required Lease Area as per the Mining Plan under consideration (hectares)	105.65 ha (Mining Block allotted) 12.15 ha (outside the allotted block) Total – 117.80 ha.
d)	Details of outside area:	• The additional area mentioned above does not form part of any other coal block. • It is non coal bearing. • Additional 5.20 Ha area is required adjoining to the northern boundary of the block for accommodating part of quarry batter, nalla diversion channel and highway diversion. Also additional area measuring 6.95 ha will be required adjoining to the eastern block boundary for settling pond, coal stack, road and other facilities.
e)	Status of the Applicant Company:	Private Limited Company.
f)	Coal Mine Development and	11th January, 2021

Production Agreement		
g)	ROM Quantity proposed to be produced as per Mining Plan	0.75 MTPA
h)	Beneficiation required – Yes/No	No
i)	Ultimate depth of Mining	75 m
j)	Estimated project cost	Approx. 97.20 Crores
k)	Water demand	234 KLD
l)	Water Table	10-13 m bgl
m)	Manpower	208
n)	No. of working days per year	300 days
2.	Location	
a)	Location of the Block	Village : Pandwa and Rajhara, Block : Patan and Bishrampur, District : Palamau, Jharkhand
b)	Name of the Coalfield/ Coal belt	Daltonganj Coal field of Jharkhand
c)	Particulars of adjacent blocks: North, South, East, West	In North – Non Coal bearing area; In South - CCL Rajhara colliery; In East – No adjacent coal block; In West - CCL Rajhara colliery;
d)	Toposheet No. with latitude and longitude	The area falls in the Survey of India Topo-sheet No.72D/4 Latitude 24° 09' 41" N to 24° 10' 04" N and Longitude 84° 02' 59" E to 84° 04' 13" E.
e)	Nearest Railway Station	Kajri Station, lies at a distance of about 4.0 KM.
F)	Nearest Airport	Birsa Munda Airport, Ranchi, which is about 170 KM.

3.	Geology and Exploration	
a)	Quality (Grade) of coal as per GR :	The overall grade of coal seams varies between D & E, (in few cases F grade).
b)	Total geological reserves in the block	22.525 MT
c)	Geological reserves considered for mining.	Gross 22.525 MT Net 20.272 MT

d)	No. of coal seams	3.
e)	Corresponding Extractable reserves.	15.609 MT
f)	Percentage of recovery w.r.t. geological reserves:	77 %

4.	End Use of Coal	
a)	Proposed end use	Basket linkage for thermal power, sponge iron, cement plant, brick kiln & other industrial uses.
b)	Washing / Beneficiation	No washing/ Beneficiation is required.

5.	Environmental Management	
a)	No. of villages/Houses to be shifted	• 23 hutments of CCL are located in the block which CCL will vacate before handing over the block to the allottee. • 147 houses of Pandwa village are lying within the block for which rehabilitation plan is under preparation.
b)	Population to be affected by the project	431 persons in 147 households

Geology & Reserve :

Seam	Vertical Net	Net Mineable (MT)	Extractable 97% (MT)
Rajhara Top	1,985,364.68	1,811,855.33	1,721,262.57
Rajhara Middle	947,726.50	788,412.78	748,992.14
+Rajhara Bottom	17,339,107.49	13,830,105.55	13,138,600.27
Total	20,272,198.66	16,430,373.66	15,608,854.97

Calendar Plan for excavation :

Year	Coal (MT)	Total waste (OB + top soil) (Mcum)	Rehandling OB (Mcum)	With Rehandling OB: Coal ratio (Stripping
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	Prog.	PROG.	PROG.	ratio) Prog. Cumil.
1 st	0.3	0.62	0	2.07
2 nd	0.75	1.44	0	1.96
3 rd	0.75	1.20	0	1.81
4 th	0.75	1.20	0	1.75
5 th	0.75	1.40	0	1.78
6 th	0.75	1.71	0.476	1.99
7 th	0.75	1.69	0.476	2.13
8 th	0.75	1.69	0.476	2.23
9 th	0.75	1.69	0.476	2.31
10 th	0.75	1.69	0.476	2.37
11 th	0.75	1.50	0	2.33
12 th	0.75	1.50	0	2.31
13 th	0.75	1.50	0	2.28
14 th	0.75	1.50	0	2.26
15 th	0.75	1.50	0	2.24
16 th	0.75	1.50	0	2.23
17 th	0.75	1.50	0	2.21
18 th	0.75	1.50	0	2.20
19 th	0.75	1.50	0	2.19
20 th	0.75	1.50	0	2.18
21 st	0.75	1.50	0	2.17
22 nd	0.3	0.57	0	2.17
Total	15.6	31.4	2.38	

Water Requirement :

Water Requirement	Quantity (KLD)
Sprinkling @ 1 mm/pass, twice a shift for three shifts = 30 cum/ day/km for four km road	120.00
Plantation @ 10 cum/hac for max 4 hac @ 20 cum/ ha	80.00
Vehicles washing for 26 washable vehicle or 52 vehicles/ week or 8 vehicles/day @2 cum/ vehicle 16-12 recirculation = 4 m3/day make	4.00

up water.	
Drinking at working place @ 45 lpd/head for 208 workers, say for 220 persons.	10.00
Suitable treatment may be required for providing the water for drinking purpose.	
Quarters for 15 workers, staff and executives.	10.00
Taking each quarter with 5 persons @ 135 litres per head	
Miscellaneous (drinking water supply)	10.00
Total	234

Power requirement & source :

The size of HEMM equipment is small which will be operated on diesel fuel and will not require any electric power. The total power requirement for the proposed mine will be less than 1 MVA which is easily available at nearby village within 500 m distance through a high tension line 11 KVA/3.3 KVA by JSEB.

Green Belt development :

Green belt / Plantation within lease area will developed at following sites :

Block area	55.25 Ha
North side	4.62 Ha
East side	4.15 Ha
Total	64.02 Ha

For Nawa Bazar Deputy Director, Palamu Tiger Project, North Division, Medinagar vide letter no. 461, dated 22.06.2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

For Pandwa Deputy Director, Palamu Tiger Project, North Division, Medinagar vide letter no. 462, dated 22.06.2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

For Nawa Bazar DFO, Palamu Division vide letter no. 1860, dated 22.06.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

For Pandwa DFO, Palamu Division vide letter no. 1861, dated 22.06.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Pandwa vide letter no. 242, dated 07.07.2021 & The CO, Nawa Bazar vide letter no. 58, dated 02.03.2021 has mentioned all plot & khata no. of the project is not recorded as "Jangle Jhari" in R.S Khatyan & Register II.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 04, 05, 06 & 07.08.2021, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II along with special conditions as follows.

- Hydrogeological report will be prepared in EIA with regard to water intersection.

- ii. Baseline data has already been generated during the period 05 March to 05 June, 2021. Additional one month baseline data should be conducted in the month October, 2021 and to be included in the EIA report.
 - iii. The permission of diversion of river and national highway as per Govt. of India will be submitted alongwith EIA report.
5. 62, Circula Road Complex of M/s Feacon Construction & Industries Pvt. Ltd., Village : Konka, Tehsil : Sadar, Thana no. : 198, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/ MIS/217913 /2021)

Name of the consultant : Crystal Consultants, Ranchi

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

Proposed construction project comprises of one block of building – Residential cum commercial complex. Project site is located in Lalpur, Circular Road, Ranchi, Jharkhand.

Salient Features of the project :

Particular	Residential cum commercial complex
Plot no.	MS 1609
Latitude & Longitude	Latitude Longitude
	23°22'25.35"N 85°20'03.88"E
	23°22'24.98"N 85°20'05.60"E
	23°22'31.04"N 85°20'05.79"E
	23°22'28.94"N 85°20'06.84"E
	23°22'30.02"N 85°20'07.35"E
Plot Area & its Break-up	Total Plot Area as per sale deed is 8698.86 m². Break-up Common Area for plantation = 854.14 m² (9.9%) Surrender for road widening = 160.58 m² Available Plot Area = 7684.14 m² Ground Coverage Area Proposed = 3989.73 m² (46.20%)
FAR	Permissible = 3.00 Consumed = 2.49
Height	31.82 street level

Total Built-Up Area & its break - up	Basement(B2)-4651.44 m ² Basement(B1)-4657.44 m ² Lower ground floor-4630.05 m ² Ground floor-4167 m ² 1 st floor-4209.47 m ² 2 nd floor-3135.28 m ² 3 rd floor-3616.78 m ² 4 th floor-1395.97 m ² 5 th floor-965.33 m ² 6 th floor-965.33 m ² 7 th floor-965.33 m ² 8 th floor-965.33 m ² 9 th floor-965.33 m ² Total Area: 35519.35 m²
No. of Floor	G + 9 and 3 basements.
No. of Building Block	1 Total 13 Floors.
Building Configuration	3 BHK : 28 Restaurants : 5 Shop : 30 Auditorium : 1 Total : 64
Municipal Solid Waste	Total Municipal Solid Waste = 1448.41 Kg Bio-Degradable = 579.36 Kg Non-Biodegradable=869.05 Kg
Population	2414 Persons including floating population
Parking	Car Parking – 227 Visitor's Car Parking - 4 Two Wheeler Parking – 601
Power Requirement	675 KVA 350 KVA (Back-up DG Set)
RWH Pits	02 pits
Capacity of STP (KLD)	120
Permissible FAR	3.00
Proposed FAR	2.49
Ground Coverage Proposed	3989.73 (46.2%) sq.m
Plantation & Green Area	854.14sq.m
Project Cost	Rs. 955,817,753.65

Water & Waste Water

Water Demand :

Description of the building	Water Demand (L)		TOTAL (L)	TOTAL (KLD)
	Domestic	Flushing		
Residential	16632.00	8316.00	24948.00	24.95
Shop on Street	39595.42	31676.33	71271.75	71.27
Shop above Street	11259.42	9007.53	20266.95	20.27
Office	0.00	0.00	0.00	0.00
Restaurant	7259.01	1979.73	9238.74	9.24
Cinema Hall / Auditorium	315.20	630.40	945.60	0.95
	75061.04	51610.00	126671.04	126.67

Waste Water Calculation (KLD)			
Total Domestic Water	75.06	60.05	80% of Domestic Water is Waste Water
Total Flushing Water	51.61	51.61	100% of Flushing Water is Waste Water
Total Volume of Waste Water		111.66	
STP Capacity		120.00	

DFO, Wildlife Ranchi vide memo no. 493, dated 26.06.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Ranchi Division vide letter no. 1362, dated 19.05.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Ranchi vide letter no. 229 (ii), dated 06.04.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

Specific observations of the committee during appraisal are as under :

- It is suggested that the green cover to be increased to 15 % of the plot area. An undertaking to be provided for the same.
- The un occupied area as shown in the submitted plan above 4th floor to be utilized for developing green cover and installation of solar panels.
- Emergency evacuation plan to be submitted with the first compliance report.
- The land use plan to be re-submitted showing location of RWH pits and sludge storage area.

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The Project Authorities have submitted undertaking to comply with the above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for 62, Circula Road Complex of M/s Feacon Construction & Industries Pvt. Ltd., Village : Konka, Tehsil : Sadar, Thana no. : 198, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III.

6. Chauldhua Stone Deposit of Sri Shyamal Kumar Pandey & Sri Shyamal Kumar Mandal, Village: Chauldhua, Thana: Baliapur, Dist. : Dhanbad, Jharkhand (0.648 Ha).

(Proposal No. : SIA/JH/MIN/165780/2020).

Name of the consultant : Indian Mine Planners & Consultants, Kolkata

This is a new project which has been taken for appraisal on 04.08.2021.

This is a Stone Mining Project with an area of 0.648 Ha [Khata no. 142, Plot no. 3547 & Khata no. 04, Plot no. 3549]. The Letter of Intent (LoI) has been issued by District Mining Office, Dhanbad, vide letter no. 1576/M dated 30.10.2019. The nearest railway station is Pradhankanta at a distance of 5 km N and nearest airport is Birsa Munda Airport, Ranchi at a distance of 133 km SW. Total water requirement is 5.14 KLD (Domestic : 0.24 KLD, Dust Suppression : 2.00 KLD, Plantation : 2.90 KLD).

The allocated project cost is Rs 26.12 Lakhs and a provision of capital cost 3.12 Lakh, recurring cost Rs 1.32 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
N 23°44'30.28" to N 23°44'33.29"	E 86°32'28.50" to E 86°32'33.00"

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,11,977.45 Cum (302339.12 Tonnes)

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

Year	Production of stone (Cum)	Production of stone (tonne)
1 st	22,430.69	60562.86
2 nd	22,452.30	60621.21
3 rd	22,314.91	60250.25
4 th	22,326.33	60281.09
5 th	22,452.30	60621.21

The proposed production capacity is 22,452.30 cum (60621.21 tonne) per annum. Life of Mine is 05 years. Total waste 5839.50 cum and no dump area is proposed.

DFO, Wildlife Hazaribagh vide letter no. 2471, dated 09.11.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dhanbad Division vide letter no. 1927, dated 27.08.2016 certified that the distance of reserved / protected forest is 500 m from proposed project site.

The CO, Baliapur (Dhanbad) vide letter no. 674, dated 14.07.2016 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.

DMO, Dhanbad vide memo no. 542/M, dated 23.03.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC, Dhanbad vide letter no. 988 / M, dated 19.04.21 has informed that this project is part of District Survey Report (DSR) of Dhanbad district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- j. The Project Authorities will stop the mining activities 2 m above the ground water table.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Chauldhua Stone Deposit of Sri Shyamal Kumar Pandey & Sri Shyamal Kumar Mandal, Village: Chauldhua, Thana: Baliapur, Dist. : Dhanbad, Jharkhand (0.648 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

7. Kulbona Stone Deposit of M/s Maa Bindhyawasini Minerals, Village: Kulbona, Thana: Nirsa, Dist. : Dhanbad, Jharkhand (1.934 Ha).

(Proposal No. : SIA/JH/MIN/ 164747 /2020).

Name of the consultant : Indian Mine Planners & Consultants, Kolkata

This is a new project which has been taken for appraisal on 04.08.2021.

This is a Stone Mining Project with an area of 1.934 Ha [Khata no. : 8, Plot no. : 66, Khata no. : 18, Plot no. : 61, 62, 63, 64, 65, 142, 143, 144, 154, Khata no. : 45, Plot no. : 192 & Khata no. : 81, Plot no. : 66/1117]. The Letter of Intent (LoI) has been issued by District Mining Office, Dhanbad, vide letter no. 1577/M dated 30.10.2019. The nearest railway station is Kalubathan at a distance of 5 km NE and nearest airport is Birsa Munda Airport, Ranchi at a distance of 141 km SW. Total water requirement is 11.20 KLD (Domestic : 0.45 KLD, Dust Suppression : 3.00 KLD, Plantation : 7.75 KLD).

The allocated project cost is Rs 29 Lakhs and a provision of capital cost 5.00 Lakh, recurring cost Rs 4.10 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine:

Latitude	Longitude
N 23°42'48.83" to N 23°42'54.69"	E 86°38'33.64" to 86°38'39.50" E

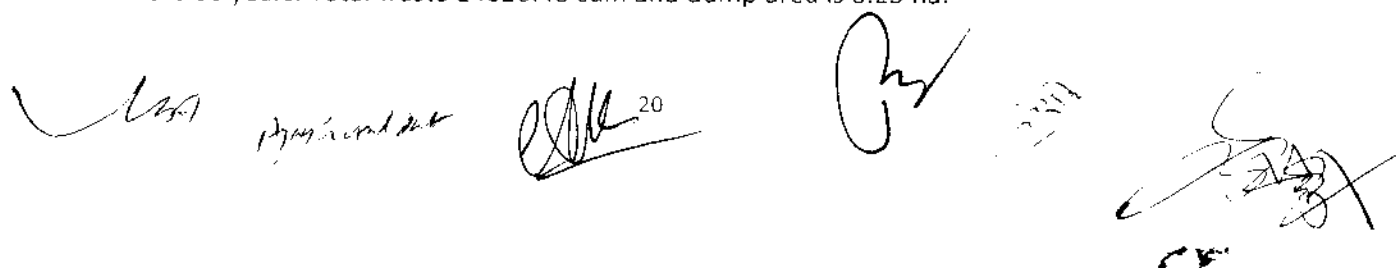
The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 3,32,549.84 Cum (897884.59 Tonnes)

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

Year	Production of stone (Cum)	Production of stone (tonne)
1 st	55,562.71	150019.31
2 nd	55,555.26	149999.20
3 rd	55,559.90	150011.72
4 th	55,554.26	149996.51
5 th	55,556.91	150003.66

The proposed production capacity is 55,562.71 cum (150019.31 tonne) per annum. Life of Mine is 06 years. Total waste 14620.48 cum and dump area is 0.25 ha.



DFO, Wildlife Hazaribagh vide letter no. 2571, dated 26.11.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dhanbad Division vide letter no. 772, dated 11.04.2019 certified that the distance of reserved / protected forest is 380 m from proposed project site.

The CO, Nirsa (Dhanbad) vide letter no. 349, dated 18.03.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.

DMO, Dhanbad vide memo no. 522/M, dated 20.03.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC, Dhanbad vide letter no. 988 / M, dated 19.04.21 has informed that this project is part of District Survey Report (DSR) of Dhanbad district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- j. The Project Authorities will stop the mining activities 2 m above the ground water table.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering

shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kulbona Stone Deposit of M/s Maa Bindhyawasini Minerals, Village: Kulbona, Thana: Nirsa, Dist. : Dhanbad, Jharkhand (1.934 Ha) recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

8. Medho Chaparkho Stone Deposit of M/s Langta Baba Stone Mines, Village : Medho Chaparkho, Thana : Jamua, Dist. : Giridih, Jharkhand (0.688 Ha).

(Proposal No. : SIA/JH /MIN/186489/2020).

Name of the consultant : Indian Mine Planners & Consultants, Kolkata

This is a new project which has been taken for appraisal on 04.08.2021.

This is a Stone Mining Project with an area of 0.688 Ha [Khata no. : 71, Plot no. : 1820(P) & Khata no. : 51, Plot no. : 1818(P). The Letter of Intent (LoI) has been issued by District Mining Office, Giridih; vide letter no. 492/M dated 21.07.2020. The nearest railway station is Giridih at a distance of 22 km SE and nearest airport is Birsa Munda Airport, Ranchi at a distance of 145 km SW. Total water requirement is 5.4 KLD (Domestic : 0.24 KLD, Dust Suppression : 2.00 KLD, Plantation : 3.50 KLD).

The allocated project cost is Rs 26.35 Lakhs and a provision of capital cost 3.35 Lakh, recurring cost Rs 2.45 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine:

Latitude	Longitude
N 24°21'9.06" to N 24°21'13.48"	E 86°11'38.39" to 86°11'41.80" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 42,256 Cum (1,14,091.21 Tonnes)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	8445.5	22,802.85
2 nd	8450.25	22,815.68
3 rd	8450.25	22,815.68
4 th	8450.25	22,815.68
5 th	8459.75	22,841.33

The proposed production capacity is 8459.75 cum (22,841.33 tonne) per annum. Life of Mine is 05 years. Total waste 2225 cum and no dump area is proposed.

DFO, Wildlife Hazaribagh vide letter no. 1447, dated 26.07.2019 certified that the Parasnath Wildlife Sanctuary is 38,440 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

DFO, Giridih West Division vide letter no. 535, dated 08.05.2015 certified that the distance of notified forest is 260 m from proposed project site.

The CO, Jamua vide letter no. 346, dated 13.04.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatyan.

DMO, Giridih vide memo no. 522/M, dated 17.06.2021 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum-District Magistrate, Giridih vide letter no. 502, dated 07.06.2021 has informed that this project is part of District Survey Report (DSR) of Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- j. The Project Authorities will stop the mining activities 2 m above the ground water table.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year.

Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Medho Chaparkho Stone Deposit of M/s Langta Baba Stone Mines, Village : Medho Chaparkho, Thana : Jamua, Dist. : Giridih, Jharkhand (0.688 Ha) recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

9. Karma Stone Deposit of M/s Maa Tara Stone Mines, Village : Karma, Thana : Birni, Dist. : Giridih, Jharkhand (0.93 Ha).

(Proposal No. : SIA/JH/MIN/210669/2021)

Name of the consultant : Indian Mine Planners & Consultants, Kolkata

This is a new project which has been taken for appraisal on 04.08.2021.

This is a Stone Mining Project with an area of 0.93 Ha [Khata no. 5, Plot no. : 220(P), 221(P) & Khata no. : 7, Plot no. 231(P) & 238. The Letter of Intent (LoI) has been issued by District Mining Office, Giridih, vide letter no. 408/M dated 12.04.2021. The nearest railway station is Rajdhanwar at a distance of 17 km NW and nearest airport is Birsa Munda Airport, Ranchi at a distance of 132 km SW. Total water requirement is 6.65 KLD (Domestic : 0.4 KLD, Dust Suppression : 2.00 KLD, Plantation : 4.25 KLD).

The allocated project cost is Rs 27.64 Lakhs and a provision of capital cost 3.64 Lakh, recurring cost Rs 2.74 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine:

Latitude	Longitude
N 24°17'53.53" to N 24°17'55.41"	E 86°3'40.87" to 86°3'47.88" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,14,400 Cum (308880 Tonnes)

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

Year	Production of stone (Cum)	Production of stone (tonne)
1 st	11,285	30,470
2 nd	11,267	30,421
3 rd	11,407	30,799
4 th	11,400	30,780
5 th	11,414	30,818

The proposed production capacity is 11,414 cum (30,818 tonne) per annum. Life of Mine is 10 years. Total waste 1554 cum and no dump area is proposed.

DFO, Wildlife Hazaribagh vide letter no. 858, dated 15.05.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Giridih West Division vide letter no. 438, dated 25.03.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Birni vide letter no. 1094, dated 05.01.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.

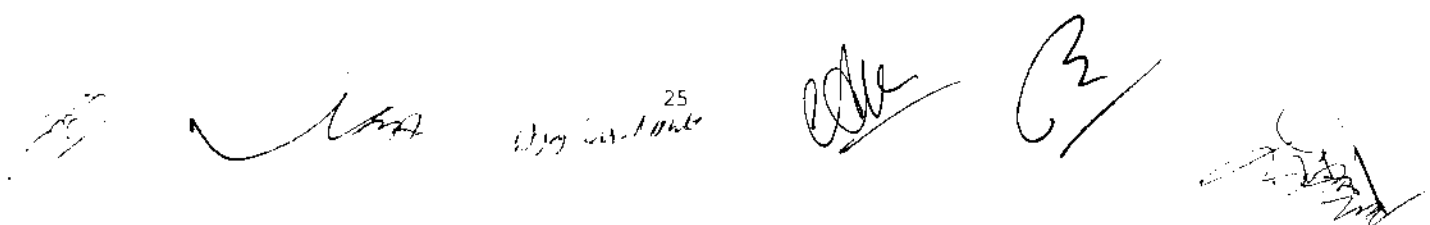
DMO, Giridih vide memo no. 500/M, dated 07.06.2021 certified that one lease of Karma Stone Minerals (Plot No. 403, Area- 5.21 Acres) exists within 500 m radius from proposed project site. Total lease area in 500 m radius is 7.51 Acres (less than 5 Ha).

The DC-cum-District Magistrate, Giridih vide letter no. 502, dated 07.06.2021 has informed that this project is part of District Survey Report (DSR) of Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- j. The Project Authorities will stop the mining activities 2 m above the ground water table.

The committee recommends the following project specific conditions :

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- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Karma Stone Deposit of M/s Maa Tara Stone Mines, Village : Karma, Thana : Birni, Dist. : Giridih, Jharkhand (0.93 Ha) recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

10. Saharpur Stone Deposit of M/s Shree Shree Stone Works, Village : Saharpur, Thana : Shikaripara, Dist. : Dumka, Jharkhand (2.97 Ha).

(Proposal No. : SIA/JH/MIN/210039/ 2021)

Name of the consultant : Indian Mine Planners & Consultants, Kolkata

This is a new project which has been taken for appraisal on 04.08.2021.

This is a Stone Mining Project with an area of 2.97 Ha [Khata no. : 17, Plot no. : 131, Khata no. : 45, Plot no. : 132, Khata no. : 30, Plot no. : 133 & Khata no. : 39, Plot no. : 134. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka; vide letter no. 673/M dated 17.04.2021. The nearest railway station is Pinargaria at a distance of 7.5 km NE and nearest airport is Netaji Subhash Chandra Bose Airport, Kolkata at a distance of 104 km SE. Total water requirement is 6.52 KLD (Domestic : 0.27 KLD, Dust Suppression : 3.00 KLD, Plantation : 3.25 KLD).

The allocated project cost is Rs 27.25 Lakhs and a provision of capital cost 3.25 Lakh, recurring cost Rs 2.35 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine:

Latitude	Longitude
N 24°11'06.56 " to N 24°11'13.00"	E 87°34'15.17" to 87°34'23.34" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 6,44,465.18 Cum (1740056 Tonnes)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	64,454	1,74,026

2 nd	64,512	1,74,182
3 rd	64,464	1,74,053
4 th	64,531	1,74,234
5 th	64,485	1,74,110

The proposed production capacity is 64,531 cum (1,74,234) per annum. Life of Mine is 10 years. Total waste 14523 cum and dump area is 0.10 ha.

DFO, Wildlife Hazaribagh vide letter no. 157, dated 27.01.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 2524, dated 11.12.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Shikaripara vide letter no. 1191, dated 26.12.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Dumka vide memo no. 423/M, dated 10.03.2021 certified that one lease (2.81 Acres) exists within 500 m radius from proposed project site & Total lease area in 500 m radius is 10.15 Acres (less than 5 Ha).

The DC-cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) of Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- Ground water will not be used in mining process.
- Ground water to be used only for domestic purpose.
- The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- The Boundary Pillars of the proposed mine lease area will be maintained properly.
- One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

- j. The Project Authorities will stop the mining activities 2 m above the ground water table.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Saharpur Stone Deposit of M/s Shree Shree Stone Works, Village : Saharpur, Thana : Shikaripara, Dist. : Dumka, Jharkhand (2.97 Ha) recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

Day 2 : August 05, 2021 [Thursday]

Consideration of Proposals

1. Musna Stone Mine of M/s Raksha Kali Stone (Prop. : Sri Manoj Kumar Bhagat), Mouza : Musna, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.955 Ha).

(Proposal No. : SIA/JH/MIN/220810 /2021).

Name of the consultant : Sathi Planners, Ranchi

This is a new project which has been taken for appraisal on 05.08.2021.

This is a Stone Mining Project with an area of 2.955 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka vide letter no. 1219/M dated 10.10.2019. The nearest railway station is Dumka at a distance of 34.90 km and nearest airport is Kazi Nazrul Islam Airport a distance of 97.80 km. Total water requirement is 7.34 KLD (Domestic Consumption : 1.04 KLD, Dust Suppression and Plantation : 6.30 KLD). 20 KVA DG set has been proposed as stand by. Total trees to be planted 2425 in safety zone (0.97 ha) & 1800 along haul road (Total 4225 trees).

The allocated project cost is Rs 56 Lakhs and a provision of capital cost 12.75 Lakh, recurring cost Rs 2.40 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. & Plot no. of the mine :

Khata no.	Plot no.
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37	708 (P)
23	711 (P), 716 (P)
30	715 (P)
24	717 (P), 718 (P)

7

Co-ordinates of the mine :

Latitude	Longitude
24°27'23.59"N	87°32'47.75"E
24°27'22.40"N	87°32'50.92"E
24°27'16.59"N	87°32'49.60"E
24°27'18.19"N	87°32'43.13"E
24°27'22.49"N	87°32'45.09"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 11,36,520 Cum (30,68,604 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	1,10,550	2,98,485
2 nd	1,10,775	2,99,092.5
3 rd	1,10,900	2,99,430
4 th	1,10,525	2,98,417.5
5 th	84,250	2,27,475

The proposed production capacity is 1,10,900 cum (2,99,430 tonne) per annum. Life of Mine is 10.78 years. Total waste 26,020 cum , dump area 0.10 Acre. Water table is at 65 mRL where as the ultimate working depth is as 80 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 2227, dated 21.10.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 2870, dated 24.08.2019 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gopikandar vide letter no. 249, dated 11.09.2019 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.

DMO, Dumka vide memo no. 1045/M, dated 04.09.2019 certified that one lease of (Area : 5.00 Acres) exists within 500 m radius from proposed project site. Total lease area in 500 m radius is 12.30 Acres.

The District Magistrate-cum-DC, Dumka vide letter no. 683, dated 19.04.21 has informed that this project is part of District Survey Report (DSR) of Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observation of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
 - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Musna Stone Mine of M/s Raksha Kali Stone (Prop. : Sri Manoj Kumar Bhagat), Mouza : Musna, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.955 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

2. Ganeshpur Stone Mine of M/s Friends Stone Mines, Mouza : Ganeshpur, P.S. : Hiranpur, Dist. : Pakur, Jharkhand (2.821 Ha).

(Proposal No. : SIA/JH/MIN/221013 /2021).

Name of the consultant : Sathi Planners, Ranchi

This is a new project which has been taken for appraisal on 05.08.2021.

This is a Stone Mining Project with an area of 2.821 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 327/M dated 12.03.2021. The nearest railway station is Pakur at a distance of 10.70 km and nearest airport is Kazi Nazrul Islam Airport a distance of 130.40 km. Total water requirement is 7.84 KLD (Domestic Consumption : 1.04 KLD, Dust Suppression and Plantation : 6.80 KLD). 20 KVA DG set has been proposed as stand by. Total trees to be planted 1670 in safety zone (0.668 ha) & 2000 along approach road (Total 3670 trees).

The allocated project cost is Rs 51.92 Lakhs and a provision of capital cost 10.96 Lakh, recurring cost Rs 2.90 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. & Plot no. of the mine :

Khata no.	Plot no.
17	142
24	124
35	118, 119, 120, 121, 122, 123, 132, 133, 134, 140, 141

Co-ordinates of the mine :

Latitude	Longitude
24° 41' 23.0436" N	87° 46' 25.7477" E
24° 41' 21.5977" N	87° 46' 25.9754" E
24° 41' 18.0656" N	87° 46' 23.3954" E
24° 41' 19.1550" N	87° 46' 21.6023" E
24° 41' 20.4056" N	87° 46' 21.4437" E
24° 41' 20.0162" N	87° 46' 20.7859" E
24° 41' 21.0491" N	87° 46' 19.4463" E
24° 41' 20.4927" N	87° 46' 19.1156" E
24° 41' 21.6676" N	87° 46' 19.8579" E
24° 41' 23.0159" N	87° 46' 17.6277" E
24° 41' 23.5024" N	87° 46' 17.1066" E
24° 41' 24.2187" N	87° 46' 17.0401" E
24° 41' 24.8709" N	87° 46' 17.7778" E
24° 41' 24.6126" N	87° 46' 18.3824" E
24° 41' 24.3609" N	87° 46' 19.3604" E
24° 41' 24.4791" N	87° 46' 20.9876" E
24° 41' 24.4154" N	87° 46' 22.7499" E
24° 41' 24.6766" N	87° 46' 23.1783" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,92,068 Cum (8,46,997.2 Tonne)

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

Year	Production of stone (Cum)	Production of stone (tonne)
1 st	29,184	84,633.60
2 nd	29,161.20	84,567.48
3 rd	29,184	84,633.60
4 th	29,161.20	84,567.48
5 th	29,184	84,633.60

The proposed production capacity is 29,184 cum per annum. Life of Mine is 10 years. Total waste 11,280 cum and dump area is 0.509 ha. Water table is at 30 mRL where as the ultimate working depth is as 39 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 737, dated 10.04.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 274, dated 04.02.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Hiranpur vide letter no. 255, dated 02.07.2020 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.

DMO, Pakur vide memo no. 442/M, dated 20.03.2021 certified that one lease of (Area : 1.95 Acres) exists within 500 m radius from proposed project site. Total lease area in 500 m radius is 8.92 Acres.

The DC-cum- District Magistrate, Pakur vide letter no. 878/M, dated 21.06.21 has informed that this project is part of District Survey Report (DSR) of Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observation of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.

- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Ganeshpur Stone Mine of M/s Friends Stone Mines, Mouza : Ganeshpur, P.S. : Hiranpur, Dist. : Pakur, Jharkhand (2.821 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

3. Gokulpur Stone Mine of M/s Unique Stone Works, Mouza : Gokulpur, Block : Pakur, Dist. : Pakur, Jharkhand (2.81 Ha).

(Proposal No. : SIA/JH/MIN/221660 /2021).

Name of the consultant : Sathi Planners, Ranchi

This is a new project which has been taken for appraisal on 05.08.2021.

This is a Stone Mining Project with an area of 6.945 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 735/M dated 11.06.2021. The nearest railway station is Pakur at a distance of 3.90 km and nearest airport is Kazi Nazrul Islam Airport at a distance of 128.44 km. Total water requirement is 7.15 KLD (Domestic Consumption : 0.95 KLD, Dust Suppression and Plantation : 6.20 KLD). 25 KVA DG set has been proposed as stand by. Total trees to be planted 2400 in safety zone (0.668 ha) & 666 along approach road (Total 3066 trees).

The allocated project cost is Rs 52.47 Lakhs and a provision of capital cost 10.27 Lakh, recurring cost Rs 2.90 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. & Plot no. of the mine :

Khata no.	Plot no.
44	121 P, 122 P
27	123 P
46	118 P
103	114 P, 117 P
31	105, 106 P, 109 P
25	110 P
12	115, 116 P, 103 P, 104

Co-ordinates of the mine :

Latitude	Longitude
24°39' 2.46" N	87°49' 6.98" E
24°38' 56.75" N	87°49' 9.75" E
24°38' 55.36" N	87°49' 3.19" E
24°38' 58.51" N	87°49' 2.61" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,59,636 Cum

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

Year	Production of stone (Cum)
1 st	38,874
2 nd	39,000
3 rd	38,720
4 th	38,880
5 th	39,109

The proposed production capacity is 39,109 cum per annum. Life of Mine is 11.8 years. Total waste 14,169 cum and dump area 0.01 ha. Water table is at 25 mRL where as the ultimate working depth is as 40 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 1150, dated 29.06.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 525, dated 12.03.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Pakur vide letter no. 661, dated 27.05.2020 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatian & Register II.

DMO, Pakur vide memo no. 786/M, dated 18.06.2021 certified that no other lease exists within 500 m radius from proposed project site.

✓

(Sd/-) [Signature]

[Signature]

[Signature]

[Signature]

[Signature]

The DC-cum- District Magistrate, Pakur vide letter no. 878/M, dated 21.06.21 has informed that this project is part of District Survey Report (DSR) of Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.

A complaint regarding presence of habitation within 50 m etc.

wrt to project site was received in SEAC office. Matter was taken up with PP of the project during appraisal. In reply PP submitted certified compliance report from Mukhiya stating that 10 Kaccha Makan located at the distance of 250 m and occupiers have consented to vacate the same after grant of lease. Hence, the contentions of the complainant are addressed suitably. In the light of above facts the committee closes the matter as addressed in the complaint.

Specific observation of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water should not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
 - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Gokulpur Stone Mine of M/s Unique Stone Works, Mouza : Gokulpur, Block : Pakur, Dist. : Pakur, Jharkhand (2.81 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

4. Brick Soil Mining for M/s Ranchi Bricks Village : Sanga, Thana : Pithoria, Dist. : Ranchi, Jharkhand (2.38 Ha).

(Proposal No. : SIA/JH/MIN/127505 /2019)

Name of the Consultant : Crystal Consultant, Ranchi

This is a new project which has been taken for appraisal on 05.08.2021.

This is Brick clay Mining Project with an area of 2.38 Ha [Khata No. 199, Plot No. 1114]. The latitude and longitude of the project site is 23°27'11.92"N to 23°27'17.52"N and 85°13'56.32"E to 85°14'04.40"E.

Salient features of the project:-

Project Name	Brick Soil Mining for M/s Ranchi Brick
Location of Mine	Village : Sanga, Thana : Pithoria, Dist. : Ranchi, Jharkhand
Land Use	Reyati land 5.88 Acres (2.38 Ha)
Minerals of Mine	Soil (Brick Soil)
Life of Mine	28 years
Total mineral reserves	33,384 m ³
Proposed production of mine	6 Lakh nos of Bricks or 1200 m ³ of sub soil per annum.
Method of mining	Opencast manual mining
No. of working days	200 days
Water demand	7.15 KLD (Ghol process, Drinking, Dust Suppression, Green Belt)
Sources of water	The water required for the mining activities shall be supplied by the tanker from the valid source.
Man Power	10
Nearest Railway Station	Ranchi railway station nearly 15.62 km
Nearest Airport	Ranchi Airport is about 17.83 Km.
Project cost	Rs. 10.58 Lakh
EMP cost	Rs. 7.81 Lakh

DFO, Ranchi Wildlife Division vide memo no. 1281, dated 19.04.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Ranchi Division vide letter no. 4798, dated 15.10.19 certified that the distance of notified forest is 250 m from proposed project site.

The CO, Kanke, Ranchi vide letter no. 993 (ii), dated 31.10.19 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyan and Register II.

DMO, Ranchi vide memo no. 283, dated 09.03.2021 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Ranchi district.

Earlier this proposal was presented in SEAC on 05-07.01.2021 in which requisite certificate / documents were sought are under –

- i. The current certificate of DMO regarding cluster formation to be provided.
- ii. Pre-Feasibility Report to be revised.
- iii. Undertaking affirming that :
 - a. Ground water will not be used during mining process.
 - b. That the District Survey Report of Ranchi is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
 - c. That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any changes is noticed shall be follow in future.

In line with above mentioned queries, the Project Proponent has submitted the compliance as follows :

- i. The current certificate of DMO regarding cluster formation has been submitted.
- ii. Revised Pre-Feasibility Report has been submitted.
- iii. Undertaking affirming that :
 - a. Ground water will not be used during mining process.
 - b. That the District Survey Report of Ranchi is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
 - c. That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any changes is noticed shall be follow in future.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining for M/s Ranchi Bricks Village :

Sanga, Thana : Pithoria, Dist. : Ranchi, Jharkhand (2.38 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

5. Brick Soil Mining for M/s Jai Mata Di Bricks (J.M.D.), Mouza : Sugnu, Thana : Sadar, Dist. : Ranchi, Jharkhand (0.86 Ha).

(Proposal No. : SIA/JH/MIN/46213/2019).

Name of the Consultant : Crystal Consultant, Ranchi

The Consultant vide letter dated 05.08.2021 requested to defer appraisal of the proposal till further intimation. The Committee considered the request and accepted the same.

6. Pindargaria Stone Deposit of Sri Utpal Kumar Sen, Village : Pindargaria, Thana : Gopikandar, Dist. : Dumka, Jharkhand (2.26 Ha).

(Proposal No. : SIA/JH/MIN/220145 /2021)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 05.08.2021.

This is a Stone Mining Project with an area of 2.26 Ha [J.B. no. 07, Plot no. 18 & 21]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka vide letter no. 410/M dated 09.03.2021. The nearest railway station is Dumka at a distance of 33.17 km and nearest airport is Netaji Subhash Chandra Bose International Airport, Kolkata at a distance of 215.48 km. Total water requirement is 14.265 KLD (Drinking : 1.56 KLD, Dust Suppression : 7.7 KLD and Plantation : 5.005 KLD).

The allocated project cost is Rs 57 Lakhs and a provision of capital cost 12.59 Lakh, recurring cost Rs 4.02 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°24'58.33" N to 24°25'05.26" N	87°33'04.32" E to 87°33'13.28" E

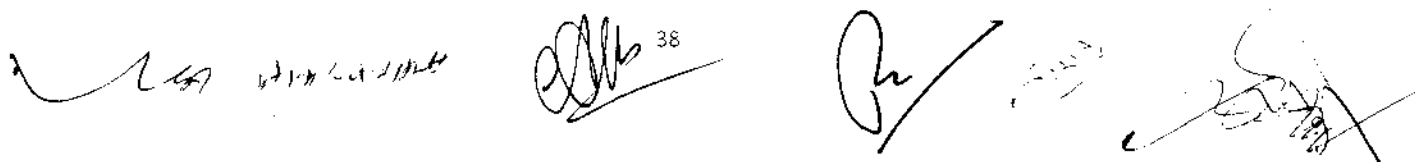
The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 3,41,700 Cum (10,25,100 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	68,300	2,04,900
2 nd	68,362	2,05,086
3 rd	68,327	2,04,981
4 th	68,363	2,05,089
5 th	68,279	2,04,837

The proposed production capacity is 68,363 cum (2,05,089 tonne) per annum. Life of Mine is 05 years. Total waste 17,040 cum and no dump is proposed. Water table is at 112 AMSL where



as the ultimate working depth is as 124 AMSL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 235, dated 08.02.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 2083, dated 03.10.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gopikandar vide letter no. 514, dated 16.12.2020 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.

DMO, Dumka vide memo no. 3169/M, dated 23.12.2020 certified that no other lease exists within 500 m radius from proposed project site.

The District Magistrate-cum-DC, Dumka vide letter no. 683, dated 19.04.21 has informed that this project is part of District Survey Report (DSR) of Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

Specific observation of the committee during appraisal are as under :

- i. Waste to be generated 17,040 cum during life of mine but no stocking or dumping is proposed. Hence, an undertaking that the waste to be utilized as and when generated.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Pindargaria Stone Deposit of Sri Utpal Kumar Sen, Village : Pindargaria, Thana : Gopikandar, Dist. : Dumka, Jharkhand (2.26 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

7. Upraili Kanhai Stone Deposit of M/s Baba Baidyanath Stone Works, Village : Upraili Kanhai, Thana : Gawan, Dist. : Giridih, Jharkhand (2.023 Ha).

(Proposal No. : SIA/JH/ MIN/202781 /2021)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 05.08.2021.

This is a Stone Mining Project with an area of 2.023 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Giridih vide letter no. 274/M dated 26.05.2020. The nearest railway station is Rajdhanwar at a distance of 12.88 km and nearest airport is Gaya Airport, Bihar at a distance of 101.83 km. Total water requirement is 13.265 KLD (Drinking : 0.96 KLD, Dust Suppression : 8 KLD and Plantation : 4.305 KLD).

The allocated project cost is Rs 60 Lakhs and a provision of capital cost 11.54 Lakh, recurring cost Rs 3.73 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. & Plot no. of the mine :

Khata No	Plot No
02	486, 488, 524, 478, 479
03	500, 501, 502, 504, 505, 521, 522, 523P
04	527P
08	506, 503, 507, 519.
09	526
11	520
18	480, 481P, 484P, 518P, 538
29	482, 483, 489, 485, 487.

Co-ordinates of the mine :

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Latitude	Longitude
24°31'55.32" N to 24°31'59.09" N	85°55'13.47" E to 85°55'21.39" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,69,586 Cum (7,54,841 Tonne)

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

Year	Production of stone (Cum)	Production of stone (tonne)
1 st	53,894	1,50,903
2 nd	53,958	1,51,082
3 rd	53,836	1,50,741
4 th	53,953	1,51,069
5 th	53,936	1,51,022

The proposed production capacity is 53,958 cum (1,51,082 tonne) per annum. Life of Mine is 05 years. Total waste 7838 cum and no dump is proposed. Water table is at 241 AMSL where as the ultimate working depth is as 259 AMSL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 1053, dated 06.06.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Giridih East Division vide letter no. 985, dated 03.06.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Tisri (Giridih) vide letter no. 108, dated 27.02.2020 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.

DMO, Giridih vide memo no. 331/M, dated 04.06.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum-District Magistrate, Giridih vide letter no. 502/M, dated 07.06.2021 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- Ground water will not be used in mining process.
- Ground water to be used only for domestic purpose.
- The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.

5/7/21

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- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

Specific observation of the committee during appraisal are as under :

- i. Waste to be generated 7838 cum during life of mine but no stocking or dumping is proposed. Hence, an undertaking that the waste to be utilized as and when generated.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Upraili Kanhai Stone Deposit of M/s Baba Baidyanath Stone Works, Village : Upraili Kanhai, Thana : Gawan, Dist. : Giridih, Jharkhand (2.023 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

- 8. Simariya Stone Deposit of M/s Pawanputra Stone Works, Vill. : Simariya, Thana : Jirwabari, Dist. : Sahibganj (6.07 Ha)

(Proposal No. : SIA/JH/MIN/61685/2017)

The PA's have not yet submitted the status of the Lol. The committee allows maximum of 02 months to submit the status of Lol from concerned DMO, failing which the project will be recommended for delisting without any reference to the PA's.

9. Telari Stone Deposit of Sri Sanjay Kumar Singh, Village : Telari, Thana : Chhattarpur, Dist. : Palamau, Jharkhand (1.416 Ha).

(Proposal No. : SIA/JH/MIN/220807/2021)

Name of the consultant: P and M solution, Noida

This is a new project which has been taken for appraisal on 05.08.2021.

This is a Stone Mining Project with an area of 1.416 Ha [Khata no. 16, Plot no. 309]. The Letter of Intent (LoI) has been issued by District Mining Office, Palamau vide letter no. 1487/M dated 01.10.2019. The nearest railway station is Muhammadganj at a distance of 26.2 km and nearest airport is Ranchi Airport at a distance of 163 km. Total water requirement is 11.25 KLD (Drinking : 0.23 KLD, Dust Suppression : 5.32 KLD, Plantation : 5.7 KLD).

The allocated project cost is Rs 30.00 Lakhs and a provision of capital cost 9.07 Lakh, recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°18'53.0" N to 24°18'59.2" N	84°05'54.7" E to 84°06'00.9" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,31,333.7 Cum (3,54,600.99 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	13,158.45	35,527.82
2 nd	13,100.50	35,371.35
3 rd	13,167	35,550.90
4 th	13,093.85	35,353.40
5 th	13,124.25	35,435.48

The proposed production capacity is 13,167 cum (35,550.90 tonne) per annum. Life of Mine is 10 years. Total waste 7691.95 cum and dump area is 0.11 ha. Water table is at 292 mRL where as the ultimate working depth is as 302 mRL. Hence, there will be no water table intersection due to mining activities.

Deputy Director, Palamau Tiger Project, North Division vide letter no. 547, dated 08.07.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Medininagar Division vide letter no. 1169, dated 05.03.2018 certified that the distance of notified forest is 270 m from proposed project site.

The CO, Chhattarpur (Palamau) vide letter no. 46, dated 20.01.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Palamau vide memo no. 780/M, dated 17.07.2021 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum-District Magistrate, Palamau vide letter no. 465/M, dated 17.06.2021 has informed that this project is part of District Survey Report (DSR) at Palamau district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
 - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. Revised Form – I & Pre-Feasibility Report by including application for crusher to be submitted.

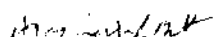
The Project Authorities have submitted above required documents.

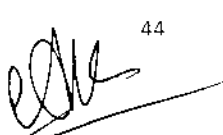
The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

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

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12.12.18 decided that the proposal for Telari Stone Deposit of Sri Sanjay Kumar Singh, Village : Telari, Thana : Chhattarpur, Dist. : Palamau, Jharkhand (1.416 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

10. Kolha Golgo Stone Deposit of M/s Maa Serawali Stone Minerals, Village : Kolha Golgo, Thana & Tehsil : Bagodar, Dist. : Giridih, Jharkhand (2.77 Ha).

(Proposal No. : SIA/JH/MIN/221284/2021)

Name of the consultant: P and M solution, Noida

This is a new project which has been taken for appraisal on 05.08.2021.

This is a Stone Mining Project with an area of 2.77 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Giridih vide letter no. 526/M dated 17.06.2021. The nearest railway station is Chaudhribandh at a distance of 1.8 km and nearest airport is Birsa Munda Airport, Ranchi at a distance of 107 km. Total water requirement is 16.59 KLD (Drinking : 0.25 KLD, Dust Suppression : 8.15 KLD, Plantation : 8.19 KLD).

The allocated project cost is Rs 40.00 Lakhs and a provision of capital cost 9.36 Lakh, recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. and Plot no. :

Khata No.	Plot No.
01	497(P)
03	488(P)
06	487(P), 491(P)
08	495(P)
09	493, 486, 494, 496, 1073

Co-ordinates of the mine :

Latitude	Longitude
24°04'04.78" N to 24°04'14.42" N	85°59'50.41" E to 86°00'01.81" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,40,180 Cum (11,00,450 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	39,950	99,875
2 nd	40,800	1,02,000
3 rd	42,500	1,06,250

4 th	43,860	1,09,650
5 th	44,030	1,10,075

The proposed production capacity is 44,030 cum (1,10,075 tonne) per annum. Life of Mine is 10 years. Total waste 11,560 cum and dump area is 0.217 ha. Water table is at 310 mRL where as the ultimate working depth is as 326 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribagh vide letter no. 338, dated 20.02.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Hazaribag East Division vide letter no. 871, dated 19.03.2018 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Bagodar (Giridih) vide letter no. 349, dated 13.04.2021 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in Khatiyon.

DMO, Giridih vide memo no. 619/M, dated 10.07.2021 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum-District Magistrate, Giridih vide letter no. 643/M, dated 17.07.2021 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.

- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted the above mentioned undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kolha Golgo Stone Deposit of M/s Maa Serawali Stone Minerals, Village : Kolha Golgo, Thana & Tehsil : Bagodar, Dist. : Giridih, Jharkhand (2.77 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

- 11. Thamb Stone Mine Project of Shri Dashrath Rana, Village : Thamb, Thana : Chandwara, P.O. : Dhabtham, Tehsil : Koderma, Dist. : Koderma, Jharkhand (0.40 Ha).**

(Proposal No. : SIA/JH/MIN/216272/2021)

Name of the consultant: P and M solution, Noida

This is a renewal project which has been taken for appraisal on 05.08.2021.

This is a Stone Mining Project with an area of 0.40 Ha. The lease was granted for the period of 10 years w.e.f. 13.03.2010 and lease period will expire on 12.03.2020. As per the Mines & Geology Department., Govt. of Jharkhand notification no. 1226/M, dated 28.09.2020 the lease will be further extended for 02 years i.e. 31.03.2022. The nearest railway station is Pipradih at a distance of 7.9 km E and nearest airport is Birsia Munda Airport, Ranchi at a distance of 120.12 km S. Total water requirement is 3.16 KLD (Drinking : 0.16 KLD, Dust Suppression : 2.34 KLD, Plantation : 0.66 KLD).

The allocated project cost is Rs 10.00 Lakhs and a provision of capital cost 2.37 Lakh, recurring cost Rs 5.00 Lakh per year has been allocated/apportioned for Environment management.

Detail of Khata no. and Plot no. of the mine :

Khata no.	Plot no.
57	73 (P), 74 (P)
19	76 (P)

88	75 (P)
127	82

Co-ordinates of the mine:

Latitude	Longitude
N 24°24'11.14 " to N 24°24'15.46"	E 85°24'56.47" to 85°24'59.07" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 92,224 Cum

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

Year	Production of stone (Cum)
1 st	15,522
2 nd	15,538

The proposed production capacity is 15,538 cum per annum. Life of Mine is 2.7 years. Total waste 1920 cum and no dump area is proposed. Water table is at 356 mRL where as the ultimate working depth is as 366 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribagh vide letter no. 162, dated 27.01.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Koderma Division vide letter no. 882, dated 22.02.2021 certified that the distance of reserved / protected forest is 252 m from proposed project site.

The CO, Chandwara vide letter no. 143, dated 27.02.2018 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.

DMO, Koderma vide memo no. 61/M, dated 17.01.2017 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Koderma district.

Specific observations of the committee during appraisal are as under :

i. Undertaking to be submitted affirming :

- Ground water will not be used in mining process.
- Ground water to be used only for domestic purpose.
- The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.

- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted the above mentioned undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Thamb Stone Mine Project of Shri Dashrath Rana, Village : Thamb, Thana : Chandwara, P.O. : Dhabtham, Tehsil : Koderma, Dist. : Koderma, Jharkhand (0.40 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

12. Basmata Stone Mine Project of M/s Heena Stone Works, Village : Basmata, P.S. : Malpahari OP, Tehsil : Pakur, Dist. : Pakur, Jharkhand (2.58 Ha)

(Proposal No. : SIA/JH/MIN/219822/2021)

Name of the consultant: P and M solution, Noida

The Project Authorities vide letter dated 05.08.2021 requested to defer appraisal of the proposal to the next SEAC meeting. The Committee considered the request and accepted the same.

13. Kunhara Kalan Stone Mine Project of M/s Ramcon Infrastructure Pvt. Ltd., Village : Kunhara Kalan, Thana : Barkatha, Dist. : Hazaribagh, Jharkhand (1.821 Ha)

(Proposal No. : SIA/JH/MIN/208423/2021)

Name of the consultant: P and M solution, Noida

This is a expansion project which has been taken for appraisal on 05.08.2021.

The project was not taken up for appraisal as the PA's or their consultants have not submitted certified EC compliance report of previous EC letter no. 369, dated 07.05.2014 by the Regional Office of MoEF&CC and also certified compliance report CTO granted by JSPCB.

On submission of the requisite document to SEAC, it will be taken up for appraisal.

- 14. Residential Group Housing Project "Shivam Heights" of M/s Durga Developers Pvt. Ltd, Mouza :Bada Ghaghra, Anchal : Argora, Tehsil : Ranchi, Dist. : Ranchi, Jharkhand.**

(Proposal No. : SIA/JH/MIS/ 196279/2021)

Name of the consultant : P and M Solution , Noida

The Project Authorities vide letter dated 05.08.2021 requested to defer appraisal of the proposal to the next SEAC meeting. The Committee considered the request and accepted the same.

Day 3 : August 06, 2021 [Friday]

Consideration of Proposals

- 1. Taratand Stone Quarry of Sri Devendra Pd. Mehta at Vill. – Taratand, Domchanch, Koderma (0.761).**

The Consultant vide letter dated 06.08.2021 requested to defer appraisal of the proposal till further intimation. The Committee considered the request and accepted the same.

- 2. Stone Mine of M/s Maa Amba Stone Works (Prop. : Shri Pavitra Kumar Yadav), Mouza : Bagchamako, Circle : Taljhari, Dist. : Sahebganj, Jharkhand (2.93 Ha).**

(Proposal No. : SIA/JH/MIN/211470 /2021)

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

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This is a Stone Mining Project with an area of 2.93 Ha [Khata no. 04, Plot no. : 66 (P) & Khata no. : 10, Plot no. 65 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj vide letter no. 315/M dated 17.03.2021. The nearest railway station is Taljhari at a distance of 7.30 km and nearest airport is Kazi Nazrul Islam Airport at a distance of 165 km. Total water requirement is 13.40 KLD (Drinking & Domestic : 0.6 KLD, Dust Suppression : 7.60 KLD and Plantation : 5.20 KLD).

The allocated project cost is Rs 60 Lakhs and a provision of capital cost 12.69 Lakh, recurring cost Rs 2.85 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
25°03' 19.40" N	87°40' 34.63" E
25°03' 23.17" N	87°40' 40.97" E
25°03' 23.55" N	87°40' 43.24" E
25°03' 18.94" N	87°40' 42.28" E
25°03' 16.98" N	87°40' 41.71" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 8,63,535.75 Cum (23,31,546.53 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	83,333.60	2,25,000
2 nd	83,333.60	2,25,000
3 rd	83,333.60	2,25,000
4 th	83,333.60	2,25,000
5 th	83,333.60	2,25,000

The proposed production capacity is 83,333.60 cum (2,25,000 tonne) per annum. Life of Mine is 10 years. Total waste is NIL hence, no dump is proposed. Water table is at 254 mRL where as the ultimate working depth is as 265 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 110, dated 18.01.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Sahebganj Division vide letter no. 3370, dated 23.12.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Taljhari vide letter no. 302, dated 15.06.2020 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.

DMO, Sahebganj vide memo no. 769/M, dated 04.07.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum-District Magistrate, Sahebganj vide letter no. 668/M, dated 09.07.2021 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.

- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted the above mentioned undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Stone Mine of M/s Maa Amba Stone Works (Prop. : Shri Pavitra Kumar Yadav), Mouza : Bagchamako, Circle : Taljhari, Dist. : Sahebganj, Jharkhand (2.93 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

3. Stone Mine of M/s Maa Durga Stone Works (Prop. : Shri Bishnu Prasad Yadav), Mouza : Dalabadi, Sub Division : Rajmahal, Dist. : Sahebganj, Jharkhand (2.428 Ha).

(Proposal No. : SIA/JH/MIN/ 211246/2021)

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 2.428 Ha [Khata no. 04, Plot no. : 119 (P) & Khata no. : 12, Plot no. : 120 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj vide letter no. 314/M dated 17.03.2021. The nearest railway station is

Taljhari at a distance of 7.49 km and nearest airport is Kazi Nazrul Islam Airport at a distance of 165 km. Total water requirement is 13.70 KLD (Drinking & Domestic : 0.6 KLD, Dust Suppression : 6.8 KLD and Plantation : 6.30 KLD).

The allocated project cost is Rs 58.85 Lakhs and a provision of capital cost 11.78 Lakh, recurring cost Rs 3.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
25°03' 13.63" N	87°40' 30.19" E
25°03' 14.4" N	87°40' 32.70" E
25°03' 12.67" N	87°40' 32.72" E
25°03' 11.34" N	87°40' 37.96" E
25°03' 07.72" N	87°40' 35.64" E
25°03' 08.70" N	87°40' 32.76" E
25°03' 08.03" N	87°40' 32.48" E
25°03' 08.47" N	87°40' 28.89" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 7,93,155 Cum (21,41,518.50 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	72,222.22	1,95,000
2 nd	72,222.22	1,95,000
3 rd	72,222.22	1,95,000
4 th	72,222.22	1,95,000
5 th	72,222.22	1,95,000

The proposed production capacity is 72,222.22 cum (1,95,000 tonne) per annum. Life of Mine is 10 years. Total waste is NIL hence, no dump is proposed. Water table is at 240 mRL where as the ultimate working depth is as 248 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 1903, dated 05.11.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Sahebganj Division vide letter no. 1295, dated 24.06.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Borio vide letter no. 191, dated 11.05.2020 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.

DMO, Sahebganj vide memo no. 900/M, dated 10.08.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum-District Magistrate, Sahebganj vide letter no. 668/M, dated 09.07.2021 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
 - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted the above mentioned undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Stone Mine of M/s Maa Durga Stone Works (Prop. : Shri Bishnu Prasad Yadav), Mouza : Dalabadi, Sub Division : Rajmahal, Dist. : Sahebganj, Jharkhand (2.428 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

4. Baba Stone & Morrum Mines of Shri Umakant Prasad Jaiswal, Mouza : Lalgara, Thana : Naudiha Bazar, Dist. : Palamu, Jharkhand (2.213 Ha).

(Proposal No. : SIA/JH /MIN/ 214406/2021)

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 2.213 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Palamau, Medininagar vide memo no. 778/M dated 17.06.2020. The nearest railway station is Daltonganj at a distance of 48.25 km and nearest airport is Ranchi Airport at a distance of 150 km. Total water requirement is 10.23 KLD (Drinking & Domestic : 0.18 KLD, Dust Suppression : 4.8 KLD and Plantation : 5.25 KLD).

The allocated project cost is Rs 54.45 Lakhs and a provision of capital cost 11.07 Lakh, recurring cost Rs 2.40 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. & Plot no. :

Khata no.	Plot no.
74	1294, 1305, 1299
79	1297, 1298

Co-ordinates of the mine :

Latitude	Longitude
24°21'27.18" N to 24°21'34.62" N	86°23'18.86" E to 86°23'32.06" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 6,27,000 Cum (18,81,000 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	41,750	1,25,250
2 nd	41,750	1,25,250
3 rd	50,100	1,50,300
4 th	50,100	1,50,300
5 th	50,100	1,50,300

The proposed production capacity is 50,100 cum (1,50,300 tonne) per annum. Total salable morum is 16,700 cum in 02 years. Life of Mine is 10 years. Total waste is NIL hence, no dump is proposed. Water table is at 264 mRL where as the ultimate working depth is as 280 mRL. Hence, there will be no water table inter section due to mining activities.

Deputy Director, Palamau Tiger Project, North Division, Medininagar vide letter no. 1093, dated 03.11.2020 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Medininagar Division vide letter no. 3716, dated 31.07.2018 certified that the distance of notified forest is 260 m from proposed project site.

The CO, Naudiha Bazar vide letter no. 43, dated 29.08.2018 has mentioned the plots no. of the project is not recorded as "Jangle Jhari".

DMO, Palamau vide memo no. 977/M, dated 02.08.2021 certified that one lease (6.75 Acres) exists within 500 m radius from proposed project site & Total lease area is less than 5 Ha.

The DC-cum-District Magistrate, Palamau vide letter no. 465/M, dated 17.06.2021 has informed that this project is part of District Survey Report (DSR) at Palamau district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
 - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. Revised Form-I & PFR by including morum in the scope of proposed EC.

The Project Authorities have submitted an undertaking and required documents.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3

m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Baba Stone & Morrum Mines of Shri Umakant Prasad Jaiswal, Mouza : Lalgara, Thana : Naudiha Bazar, Dist. : Palamu, Jharkhand (2.213 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

5. Stone Mine of M/s Mahakal Stone Works (Prop. : Shri Pankaj Mishra), Mouza : Gilamari, Sub Division : Rajmahal, Dist. : Sahebganj, Jharkhand (2.529 Ha).

(Proposal No. : SIA/JH/MIN/ 211585/2021).

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 2.529 Ha [Khata no. 59, Plot no. 182 (P) & 213 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj vide letter no. 293/M dated 15.03.2021. The nearest railway station is Mirzachauki at a distance of 4.28 km and nearest airport is Kazi Nazrul Islam Airport at a distance of 181 km. Total water requirement is 26.84 KLD (Drinking & Domestic : 0.23 KLD, Dust Suppression : 16.84 KLD and Plantation : 9.77 KLD).

The allocated project cost is Rs 55.55 Lakhs and a provision of capital cost 12.52 Lakh, recurring cost Rs 2.80 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
25°13' 40.290" N	87°31' 24.740" E
25°13' 38.900" N	87°31' 24.190" E
25°13' 37.910" N	87°31' 25.500" E
25°13' 37.630" N	87°31' 26.670" E
25°13' 34.690" N	87°31' 27.130" E
25°13' 33.760" N	87°31' 28.140" E
25°13' 33.680" N	87°31' 29.430" E
25°13' 32.710" N	87°31' 28.870" E
25°13' 30.720" N	87°31' 29.990" E
25°13' 31.680" N	87°31' 30.460" E
25°13' 32.830" N	87°31' 32.500" E

25°13' 35.220" N	87°31' 32.970" E
25°13' 35.100" N	87°31' 32.540" E
25°13' 35.950" N	87°31' 32.410" E
25°13' 36.540" N	87°31' 30.370" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 6,66,663.93 Cum (17,99,992.61 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	66,666.66	1,80,000
2 nd	66,666.66	1,80,000
3 rd	66,666.66	1,80,000
4 th	66,666.66	1,80,000
5 th	66,666.66	1,80,000

The proposed production capacity is 66,666.66 cum (1,80,000 tonne) per annum. Life of Mine is 10 years. Total waste is NIL hence, no dump is proposed. Water table is at 213 mRL where as the ultimate working depth is as 230 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 491, dated 08.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Sahebganj Division vide letter no. 3220, dated 08.12.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Mandro vide memo no. 723, dated 22.10.2020 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.

DMO, Sahebganj vide memo no. 433/M, dated 19.04.2021 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum-District Magistrate, Sahebganj vide letter no. 668/M, dated 09.07.2021 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority.
PA's to abide by directives issued by any court of law in future.

- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted the above mentioned undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Stone Mine of M/s Mahakal Stone Works (Prop. : Shri Pankaj Mishra), Mouza : Gilamari, Sub Division : Rajmahal, Dist. : Sahebganj, Jharkhand (2.529 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

6. Narayani Stone & Morum Mines & Crusher of Shri Umakant Prasad Jaiswal, Mouza : Lalgara, Thana : Naudiha Bazar, Dist. : Palamau, Jharkhand (2.731 Ha).

(Proposal No. : SIA/JH/MIN/215166 /2021)

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 2.731 Ha [Khata no. 09, Plot no. 1355(P), 1356, 1359, 1360, 1362, 1363, 1364, 1366, 1368, 1369, 1371 and 1377(P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Palamau, Medininagar vide letter no. 1119/M dated

27.07.2020. The nearest railway station is Daltonganj at a distance of 48.50 km and nearest airport is Ranchi Airport at a distance of 150 km. Total water requirement is 54.36 KLD (Drinking & Domestic : 0.23 KLD, Dust Suppression : 37.52 KLD and Plantation : 16.61 KLD).

The allocated project cost is Rs 54.72 Lakhs and a provision of capital cost 13.00 Lakh, recurring cost Rs 2.70 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°21' 34.67" N to 24°21' 42.48" N	86°23' 22.92" E to 86°23' 31.91" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 6,94,798.65 Cum (20,84,395.95 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	55,250	1,65,750
2 nd	59,560	1,78,680
3 rd	66,300	1,98,900
4 th	66,300	1,98,900
5 th	66,300	1,98,900

The proposed production capacity is 66,300 cum (1,98,900 tonne) per annum. Total salable morum is 18,000 cum in 02 years. Life of Mine is 10.81 years. Total waste is NIL hence, no dump is proposed. Water table is at 275 mRL where as the ultimate working depth is as 282 mRL. Hence, there will be no water table inter section due to mining activities.

Deputy Director, Palamu Tiger Project, North Division, Medininagar vide letter no. 1092, dated 03.11.2020 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Medininagar Division vide letter no. 3717, dated 31.07.2018 certified that the distance of notified forest is 260 m from proposed project site.

The CO, Naudiha Bazar, Palamau vide letter no. 33, dated 20.06.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.

DMO, Palamau vide memo no. 976/M, dated 02.08.2021 certified that one lease (5.47 Acres) exists within 500 m radius from proposed project site & Total lease area is less than 5 Ha.

The DC-cum-District Magistrate, Palamau, Medininagar vide letter no. 465 / M, dated 17.06.21 has informed that this project is part of District Survey Report (DSR) at Palamau district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.

- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

ii. Revised Form-I & PFR by including morum and crusher in the scope of proposed EC.

The Project Authorities have submitted an undertaking and above required documents.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Narayani Stone & Morum Mines & Crusher of Shri Umakant Prasad Jaiswal, Mouza : Lalgara, Thana : Naudiha Bazar, Dist. : Palamau, Jharkhand (2.731 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

- 7. Nasim Ansari Stone Mine of Md. Nasim Ansari, Mouza : Dumuriya, Thana : Nirsa, Dist. : Dhanbad, Jharkhand (0.886 Ha).

(Proposal No. : SIA/JH/MIN/215073 /2021)

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 0.886 Ha [Khata no. 248, Plot no. 4649 & 4648 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dhanbad vide letter no. 182/M dated 10.02.2020. The nearest railway station is Kalubathan at a distance of 6.20 km and nearest airport is Ranchi Airport at a distance of 141 km. Total water requirement is 27.72 KLD (Drinking & Domestic : 0.15 KLD, Dust Suppression : 19.40 KLD and Plantation : 8.17 KLD).

The allocated project cost is Rs 52.36 Lakhs and a provision of capital cost 11.12 Lakh, recurring cost Rs 2.50 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
23°42' 14.34" N to 23°42' 19.20" N	86°38' 29.5" E to 86°38' 33.7" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,54,841.69 Cum (4,18,074.48 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	13,335	36,004.50
2 nd	13,335	36,004.50
3 rd	13,335	36,004.50
4 th	13,335	36,004.50
5 th	13,335	36,004.50

The proposed production capacity is 13,335 cum (36,004.50 tonne) per annum. Life of Mine is 10 years. Total waste is NIL hence, no dump is proposed. Water table is at 108 mRL where as the ultimate working depth is as 125 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribagh vide letter no. 413, dated 17.02.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dhanbad Division vide letter no. 1126, dated 25.06.2021 certified that the distance of Reserved / Protected forest is 250 m from proposed project site.

The CO, Nirsa, Dhanbad vide letter no. 1138, dated 30.09.2019 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in Khatiyani.

DMO, Dhanbad vide memo no. 760/M, dated 14.05.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC, Dhanbad vide letter no. 988 / M, dated 19.04.21 has informed that this project is part of District Survey Report (DSR) at Dhanbad district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observation of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
 - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted the above mentioned undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Nasim Ansari Stone Mine of Md. Nasim Ansari, Mouza : Dumuriya, Thana : Nirsa, Dist. : Dhanbad, Jharkhand (0.886 Ha) is recommended for

grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

8. Musna Stone Mine of M/s Maa Kali Stone (Prop. : Shri Ajay Kumar Bhagat), Mouza : Musna, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.46 Ha).

(Proposal No. : SIA/JH/MIN/222049 /2021)

Name of the consultant : Sathi Planners, Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 2.46 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka vide letter no. 180/M dated 04.02.2021. The nearest railway station is Dumka at a distance of 34.68 km and nearest airport is Kazi Nazrul Islam Airport a distance of 97.80 km. Total water requirement is 19.47 KLD (Drinking & Domestic : 1.07 KLD, Dust Suppression : 10.8 KLD and Plantation : 7.60 KLD).

The allocated project cost is Rs 61.45 Lakhs and a provision of capital cost 12.06 Lakh, recurring cost Rs 3.10 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. & Plot no. :

Khata no.	Plot no.
32	62 (P)
24	63 (P), 64 (P)
03	65 (P)
34	66 (P), 67, 68 (P)
35	72, 73
20	74 (P)
13	78 (P)

Co-ordinates of the mine :

Latitude	Longitude
24°27'25.72"N	87°31'59.70"E
24°27'24.13"N	87°32'2.71"E
24°27'22.93"N	87°32'3.93"E
24°27'18.31"N	87°32'0.99"E
24°27'19.20"N	87°31'57.64"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,85,251 Cum (13,10,177.7 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	1,10,568	2,98,533.6
2 nd	91,560	2,47,212

3 rd	1,05,480	2,84,796
4 th	72,432	1,95,566.4
5 th	55,248	1,49,169.6

The proposed production capacity is 1,10,568 cum (2,98,533.6 tonne) per annum. Life of Mine is 5.6 years. Total waste is 61560 cum and dump area is 0.04 ha. Water table is at 93 mRL where as the ultimate working depth is as 110 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 492, dated 19.02.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 314, dated 04.02.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gopikandar vide letter no. 337, dated 13.11.2019 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.

DMO, Dumka vide memo no. 1287/M, dated 31.07.2020 certified that one lease of (Area : 5.00 Acres) exists within 500 m radius from proposed project site. Total lease area in 500 m radius is 11.08 Acres.

The District Magistrate-cum-DC, Dumka vide letter no. 683, dated 19.04.21 has informed that this project is part of District Survey Report (DSR) of Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee during appraisal are as under :

- i. Revised PFR to include corrected land use table.
- ii. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.

- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted an undertaking and above required document.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Musna Stone Mine of M/s Maa Kali Stone (Prop. : Shri Ajay Kumar Bhagat), Mouza : Musna, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.46 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

9. Dhawadanga Stone Mine of M/s Shiv Shakti Stone Works, Mouza : Dhawadanga, P.S. : Maheshpur, P.O. : Sahangram, Dist. : Pakur, Jharkhand (2.46 Ha).

(Proposal No. : SIA/JH/MIN/ 221640 /2021)

Name of the consultant : Sathi Planners, Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 2.46 Ha [Khata no. 13, Plot no. 520 & 521]. The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 2017/M dated 12.11.2020. The nearest railway station is Pakur at a distance of 14.93 km and nearest airport is Kazi Nazrul Islam Airport a distance of 117.57 km. Total water requirement is 49.07 KLD (Drinking & Domestic : 2.55 KLD, Dust Suppression : 33.20 and Plantation : 13.32 KLD).

The allocated project cost is Rs 61.60 Lakhs and a provision of capital cost 14.59 Lakh, recurring cost Rs 2.90 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Sl.no.	Latitude	Longitude
1	24°35' 01.69" N	87°43' 09.51" E
2	24°35' 04.12" N	87°43' 07.58" E
3	24°35' 05.26" N	87°43' 06.92" E
4	24°35' 10.11" N	87°43' 09.91" E
5	24°35' 09.45" N	87°43' 11.50" E

6	24°35' 07.73" N	87°43'10.71" E
7	24°35' 07.01" N	87°43'12.66" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,16,442 Cum (11,24,393.4 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	35,197.50	95,033.25
2 nd	20,577.00	98,496.00
3 rd	36,936.00	99,727.20
4 th	37,791.00	1,02,035.70
5 th	38,315.40	1,034,51.58

The proposed production capacity is 38,315.40 cum (1,034,51.58 tones) per annum. Life of Mine is 10.87 years. Total waste is 21594 cum and dump area is 0.43 ha. Water table is at 70 mRL where as the ultimate working depth is as 90 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 1692, dated 21.08.2019 certified that the Udhwa Lake Bird Sanctuary is 43,310 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 751, dated 09.07.2019 certified that the distance of notified forest is 460 m from proposed project site.

The CO, Maheshpur vide letter no. 510, dated 17.07.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.

DMO, Pakur vide memo no. 2302/M, dated 07.12.2020 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Pakur district.

Specific observation of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.

- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted the above mentioned undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Dhawadanga Stone Mine of M/s Shiv Shakti Stone Works, Mouza : Dhawadanga, P.S. : Maheshpur, Dist. : Pakur, Jharkhand (2.46 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

10. Lakhpahari Stone Mine of Mr. Mukhleshur Alam, Mouza : Lakhpahari, P.S. : Pakur, Dist. : Pakur, Jharkhand (2.21 Ha).

(Proposal No. : SIA/JH/MIN/ 221509 /2021)

Name of the consultant : Sathi Planners, Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 2.21 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 738/M dated 23.05.2020. The nearest railway station is Tilbhita at a distance of 5 km and nearest airport is Malda Airport a distance of 51 km. Total water requirement is 18.88 KLD (Drinking & Domestic : 0.29 KLD, Dust Suppression : 11.2 and Plantation : 7.39 KLD).

The allocated project cost is Rs 58.30 Lakhs and a provision of capital cost 11.42 Lakh, recurring cost Rs 2.40 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. & Plot no. :

Khata no.	Plot no.
06	92 (P)
08	83, 85, 86
27	53, 54, 84
29	95
31	51 (P)
42	88
45	55, 56
48	52, 87

Co-ordinates of the mine :

Latitude	Longitude
24°40'21.69"N	87°48'2.84"E
24°40'23.73"N	87°48'3.62"E
24°40'24.38"N	87°48'2.31"E
24°40'25.23"N	87°48'1.93"E
24°40'26.51"N	87°48'2.08"E
24°40'26.84"N	87°48'0.95"E
24°40'27.95"N	87°47'58.94"E
24°40'27.21"N	87°47'58.82"E
24°40'27.39"N	87°47'58.31"E
24°40'26.72"N	87°47'58.21"E
24°40'26.90"N	87°47'57.81"E
24°40'23.82"N	87°47'56.98"E
24°40'23.04"N	87°47'59.27"E
24°40'23.62"N	87°48'59.41"E
24°40'23.36"N	87°48'0.81"E
24°40'22.11"N	87°48'0.45"E
24°40'21.96"N	87°48'0.95"E
24°40'23.30"N	87°48'1.19"E

24°40'23.19"N	87°48'1.82"E
24°40'22.44"N	87°48'1.67"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,42,108 cum (12,37,902 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	38,885	1,08,878
2 nd	38,880	1,08,864
3 rd	38,868	1,08,830
4 th	38,855	1,08,794
5 th	38,822	1,08,702

The proposed production capacity is 38,885 cum (1,08,878 tonne) per annum. Life of Mine is 11.4 years. Total waste is 10219 cum and dump area is 0.01 ha. Water table is at 00 mRL where as the ultimate working depth is as 10 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 155, dated 24.01.2020 certified that National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 131, dated 17.01.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.

The CO, Pakur vide letter no. 143, dated 18.02.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.

DMO, Pakur vide memo no. 789/M, dated 03.06.2020 certified that two lease (3.615 Acres & 2.60 Acres) exists within 500 m radius from proposed project site & Total lease area in 500 m radius is 11.675 Acres / 4.72 Ha.

The DC-cum- District Magistrate, Pakur vide letter no. 878/M, dated 21.06.21 has informed that this project is part of District Survey Report (DSR) of Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observation of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority.
PA's to abide by directives issued by any court of law in future.

- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted an undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Lakhpahari Stone Mine of Mr. Mukhleshur Alam, Mouza : Lakhpahari, P.S. : Pakur, Dist. : Pakur, Jharkhand (2.21 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

11. Rambani Stone Mine of M/s R.S.S. Stone Works, Mouza : Rambani, P.S. : Gopikandar, P.O. : Dharampur, Dist. : Dumka, Jharkhand (1.73 Ha).

(Proposal No. : SIA/JH/MIN/ 221304 /2021)

Name of the consultant : Sathi Planners, Ranchi

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 1.73 Ha [Khata no. 10, Plot no. 135]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka vide letter no. 175/M dated 04.02.2021. The nearest railway station is Pinargaria at a distance of 29 km and nearest airport

is Kazi Nazrul Islam Airport a distance of 96.33 km. Total water requirement is 17.45 KLD (Drinking & Domestic : 0.32 KLD, Dust Suppression : 11.20 and Plantation : 5.93 KLD).

The allocated project cost is Rs 53.85 Lakhs and a provision of capital cost 10.62 Lakh, recurring cost Rs 2.90 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Sl.no.	Latitude	Longitude
1	24°26' 44.03" N	87°31' 49.97" E
2	24°26' 44.26" N	87°31' 49.43" E
3	24°26' 45.54" N	87°31' 48.75" E
4	24°26' 47.04" N	87°31' 47.81" E
5	24°26' 48.42" N	87°31' 47.80" E
6	24°26' 49.49" N	87°31' 48.60" E
7	24°26' 51.21" N	87°31' 50.04" E
8	24°26' 51.93" N	87°31' 52.17" E
9	24°26' 51.75" N	87°31' 52.79" E
10	24°26' 48.07" N	87°31' 51.25" E
11	24°26' 44.07" N	87°31' 50.40" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,65,468 Cum (7,16,763.6 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	52,819.43	1,42,612.46
2 nd	52,971.62	1,43,023.37
3 rd	52,174.00	1,40,869.80
4 th	50,777.50	1,37,099.25
5 th	20,377.50	76,950.00

The proposed production capacity is 52,971.62 cum (1,43,023.37 tonne) per annum. Life of Mine is 6 years. Total waste is 28815 cum and dump area is 0.01 ha. Water table is at 122 mRL where as the ultimate working depth is as 145 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 336, dated 20.02.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 1508, dated 27.07.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gopikandar vide letter no. 273, dated 29.07.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.

DMO, Dumka vide memo no. 1212/M, dated 22.07.2020 certified that no other lease exists within 500 m radius from proposed project site.

The District Magistrate-cum-DC, Dumka vide letter no. 683, dated 19.04.21 has informed that this project is part of District Survey Report (DSR) of Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observation of the committee during appraisal are as under :

- i. Undertaking to be submitted affirming :
 - a. Ground water will not be used in mining process.
 - b. Ground water to be used only for domestic purpose.
 - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
 - d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
 - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
 - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
 - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
 - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
 - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted an undertaking.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Rambani Stone Mine of M/s R.S.S. Stone Works, Mouza : Rambani, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (1.73 Ha) is recommended for

grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

12. Residential Building Project "Privilege Home" of M/s Privilege CCL Employees Girh Nirman Swamlambi Sahkari Samiti Ltd., Village : Briyatu, Thana no. : 193, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/216050 /2021)

Name of the consultant : Rian Enviro Pvt. Ltd, Patna

Privilege CCL Employees Girh Nirman Swawlambi Sahkari Samiti Ltd. is proposed to develop a Residential Building on the total land area measuring 6719.42 sqm at **Khata No. : 08, Plot no. : 840 (P) & Khata no. : 27, Plot No. : 839 (P)** Thana No. 193, Village-Bariatu, Dist. Ranchi, Jharkhand. The proposed build up area is 29431 sqm.

The Project built up area is greater than 20,000 sqm and less than 1,50,000 sqm therefore designated under Category "B" and falls under Item 8(a) (Building & Construction Project) of the Environmental Impact Assessment (EIA) Notification of September 14, 2006 and its subsequent amendments.

Brief description of the Project:

Sl. No.	Particulars	
1.	Latitude	23°23'16.205"N
2.	Longitude	85°21'27.113"E
3.	Plot Area	6719.42 Sqm
4.	Proposed Ground Coverage 31.93%	2145.41 Sqm
5.	Total residential built-up area (FAR)	21279.52 Sqm
6.	Basement Floor Area	4666 Sqm
7.	Others (Non FAR)	3486 Sqm
8.	Total Built-up Area	29431 Sqm
9.	Total Parking Required (ECS)	161 Nos.
10.	Total Parking Proposed (ECS)	181 Nos. Basement Parking: 147 Nos. Ground Floor Parking: 34 Nos.
11.	Total Green Area with %	1551.49 Sq.m (~23.08%)
12.	Rain Water Harvesting Pits (with size)	3 (39.20 Cumec/hour)
13.	STP Capacity	127 KLD

14.	Maximum Height of the Building (m)	51 m						
15.	Power Requirement	~1000 KW (The source of power will be supplied by Jharkhand State Electricity Board)						
16.	Power Backup	2 DGs of 250 KVA each						
17.	Total Water Requirement	~127 KLD						
18.	Fresh/Domestic Water Requirement	~81 KLD						
19.	Reuse of Recycled Water	~49 KLD						
20.	Waste Water Generated	~106 KLD						
21.	Solid Waste Generated (Operational)	~388 Kg/day						
22.	Biodegradable Waste (Operational)	~233 Kg/day						
23.	Non-Biodegradable Waste (Operational)	~155 Kg/day						
24.	Number of Tower	03						
25.	Basement	01						
26.	Stories	B+G+14						
27.	R+U Value of Material used (Glass)	U-value-5.6 w/m2 R-value- 0.17 w/m2						
28.	CER	Nil						
29.	Total Cost of the project:	<table><tr><td>i) Land Cost</td><td>~ 6,39,10,000</td></tr><tr><td>ii) Construction Cost</td><td>~ 36,42,99,162</td></tr><tr><td>Total</td><td>42,82,09,162; Approx. 43 Cr.</td></tr></table>	i) Land Cost	~ 6,39,10,000	ii) Construction Cost	~ 36,42,99,162	Total	42,82,09,162; Approx. 43 Cr.
i) Land Cost	~ 6,39,10,000							
ii) Construction Cost	~ 36,42,99,162							
Total	42,82,09,162; Approx. 43 Cr.							
30.	EMP Budget	During Construction: Capital: 18 Lakhs Recurring: 20.5 Operational Cost: Capital: 67 Lakhs Recurring: 10 Lakhs						
31.	Incremental Load in respect of:	<table><tr><td>i) PM₁₀ (24 hr)</td><td>0.838 µg/m³</td></tr><tr><td>ii) NO₂ (24 hr)</td><td>11.9 µg/m³</td></tr><tr><td>iii) CO(24 hr)</td><td>0.782 µg/m³</td></tr></table>	i) PM ₁₀ (24 hr)	0.838 µg/m ³	ii) NO ₂ (24 hr)	11.9 µg/m ³	iii) CO(24 hr)	0.782 µg/m ³
i) PM ₁₀ (24 hr)	0.838 µg/m ³							
ii) NO ₂ (24 hr)	11.9 µg/m ³							
iii) CO(24 hr)	0.782 µg/m ³							
32.	Construction i) Power Back-up	2 DG of 250 KVA each						

Phase:	ii) Water Requirement & Source	Fresh water – 9 KLD Treated wastewater-12 KLD Source: Tanker water supply
	iii) STP (Modular)	20 KLD

Area details :

S. No.	Project Detail	Area		Percentage
1	Total Plot area	6719.42	sqm	..
2	Total residential built-up area Proposed	21279.52	sqm	..
3	Proposed FAR @ 3.17	21279.52	sqm	..
4	Basement Area	4666	sqm	21.93%
5	Others BUA	3486	sqm	
6	Total Built-up Area Provided	29431	sqm	
7	Landscape Area (Required)	1007.913	sqm	15.00%
8	Landscape Area (Provided)	1551.49	sqm	23.09%
9	Total Ground Coverage	2145.41	sqm	28.91%
10	Hard Paved Area	1625.03	sqm	24.18%
11	Open Area	1397	sqm	20.79%

Floor wise built-up area details :

Sl. No.	Floors	Total Built-up Area Block-A	Total Built-up Area Block-B	Total Built-up Area Block-C
1	Ground	604.43	733.55	604.43
2	First	579.89	461.43	579.89
3	Second	579.89	471.11	579.89
4	Third	579.89	471.11	579.89
5	Fourth	579.89	471.11	579.89
6	Fifth	579.89	471.11	579.89

7	Sixth	579.89	471.11	579.89
8	Seventh	579.89	471.11	579.89
9	Eighth	579.89	471.11	579.89
10	Nineth	579.89	471.11	579.89
11	Ten	579.89	471.11	579.89
12	Eleventh	579.89	471.11	579.89
13	Twelfth	579.89	471.11	579.89
14	Thirteenth	579.89	471.11	579.89
15	Fourteenth	579.89	471.11	579.89
	Block wise Total BUA	8722.89	7319.41	8722.89
	Sub-total-I	24765.19		
	Basement	4665.73		
	Grand Total	29431		

DFO, Wildlife Ranchi vide memo no. 600, dated 24.07.2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Ranchi Division vide letter no. 1446, dated 07.06.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Badagai, Ranchi vide letter no. 295 (II), dated 26.03.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatyan & Register II.

Specific observation of the committee during appraisal are as under :

- Provision should be made for the removal of oil & grease from the domestic waste water in STP and also provide design concentration of influent and effluent.
- Provision should be made for the storage of rain water along with rain water harvesting and storage water should be utilized to the maximum extent.
- Provision of green belt development to ensure a gap of 5 m or less between the trees.
- Revised cost of EMP during operational phase to be provided.

The Project Authorities have submitted above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Residential Building Project "Privilege Home" of M/s Privilege CCL Employees Girh Nirman Swamlambi Sahkari Samiti Ltd., Village : Briyatu, Thana no. : 193, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III.

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13. Pipaljori Stone Mine of Shri Ragda Murmu, Village : Pipaljori, Thana No. : 113, Dist. : Pakur, Jharkhand (1.92 Ha).

(Proposal No. : SIA/JH/MIN/221642 /2021)

Name of the consultant : Oceao-Enviro Management Solutions (India) Pvt. Ltd, Ghaziabad

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 1.92 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 564/M dated 10.04.2021. The nearest railway station is Nabinagar at a distance of 2 km and nearest airport is Malda Airport a distance of 55 km. Total water requirement is 8.6 KLD (Drinking + Domestic uses : 0.6 KLD, Dust Suppression : 4 KLD and Plantation : 4 KLD).

The allocated project cost is Rs 42 Lakhs and a provision of capital cost 3.1 Lakh, recurring cost Rs 3.3 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. & Plot no. of the mine :

Jamabandi no.	Plot no.
06	437, 438, 439
08	303P
16	327
32	328, 329, 330
01	324
29	305
24	334
31	331
30	332
12	333
20	335, 320, 322, 310, 309, 307
19	297P

Co-ordinates of the mine :

Latitude	Longitude
24°35'23.76"N	87°51'13.87"E
24°35'22.40"N	87°51'15.78"E
24°35'20.30"N	87°51'18.42"E
24°35'18.17"N	87°51'14.94"E
24°35'16.55"N	87°51'11.33"E
24°35'20.81"N	87°51'11.24"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,93,985 cum (8,23,158 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	29,370	82,236
2 nd	29,348	82,174
3 rd	29,400	82,320
4 th	29,376	82,253
5 th	29,397	82,312

The proposed production capacity is 29,400 cum (82,320 tonne) per annum. Life of Mine is 10 years. Total waste is 4385 cum and dump area is 0.02 ha. Water table is at 20 mRL where as the ultimate working depth is as 31 mRL. Hence, there will be no water table inter section due to mining activities.

DFO, Wildlife Hazaribag vide letter no. 2203, dated 30.12.2020 certified that National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 447, dated 02.03.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Pakur vide letter no. 1419, dated 14.09.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.

DMO, Pakur vide memo no. 568/M, dated 10.04.2021 certified that one lease exists within 500 m radius from proposed project site & Total lease area in 500 m radius is 11.762 Acres / 4.76 Ha.

The DC-cum- District Magistrate, Pakur vide letter no. 878/M, dated 21.06.21 has informed that this project is part of District Survey Report (DSR) of Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- Ground water will not be used in mining process.
- Ground water to be used only for domestic purpose.
- The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- The Boundary Pillars of the proposed mine lease area will be maintained properly.
- One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- The plantation work will be completed in the first year only. Same will be maintained during the life of mine.

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- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

Specific observations of the committee during appraisal are as under :

- i. Green belt to be developed in the entire safety zone (0.62 ha).
- ii. Revised land use table to be submitted.
- iii. Environment Management cost to be revised.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Pipaljori Stone Mine of Shri Ragda Murmu, Village : Pipaljori, Thana No. : 113, Dist. : Pakur, Jharkhand (1.92 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

14. Kutmu Stone Mine of Shri Suraj Kumar Singh, Village : Kutmu, P.S. : Pandu, Dist. : Palamu, Jharkhand (2.056 Ha).

(Proposal No. : SIA/JH/MIN/221650 /2021)

Name of the consultant : Oceao-Enviro Management Solutions (India) Pvt. Ltd, Ghaziabad

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 2.056 Ha [Khata no. 174, Plot no. 1046]. The Letter of Intent (LoI) has been issued by District Mining Office, Palamau, Medininagar vide letter no. 343/M dated 13.05.2021. The nearest railway station is Sigsigi at a distance of 8.36 km and nearest airport is Gaya International Airport a distance of 114.59 km. Total water requirement is 7 KLD (Drinking + Domestic uses : 0.63 KLD, Dust Suppression : 3.37 KLD and Plantation : 3 KLD).

The allocated project cost is Rs 45 Lakhs and a provision of capital cost 3.25 Lakh, recurring cost Rs 3.5 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°18'12.90"N	83°55'23.60"E
24°18'11.50"N	83°55'22.60"E
24°18'10.10"N	83°55'21.20"E
24°18'10.30"N	83°55'18.60"E
24°18'11.50"N	83°55'18.40"E
24°18'14.10"N	83°55'18.90"E
24°18'15.20"N	83°55'19.10"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,93,930 cum (13,83,004 Tonne)

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

Year	Production of stone (Cum)	Production of stone (Tonne)
1 st	42,840	1,19,952
2 nd	42,822	1,19,902
3 rd	42,882	1,20,070
4 th	42,870	1,20,036
5 th	42,842	1,19,958

The proposed production capacity is 42,882 cum (1,20,070 tonne) per annum. Life of Mine is 11.41 years. Total waste is 4452 cum and dump area is 0.01 ha. Water table is at 155 mRL where as the ultimate working depth is as 161 mRL. Hence, there will be no water table inter section due to mining activities.

Deputy Director, Palamau Tiger Project, North Division, Medininagar vide letter no. 415, dated 05.06.2021 certified that National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Medininagar Division vide letter no. 1260, dated 24.03.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Pandu, Palamau vide letter no. 254, dated 21.08.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.

DMO, Palamau, Medininagar vide memo no. 566/M, dated 10.07.2021 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum- District Magistrate, Palamau vide letter no. 900/M, dated 19.07.2021 has informed that this project is part of District Survey Report (DSR) of Palamau district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- Ground water will not be used in mining process.

- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

Specific observations of the committee during appraisal are as under :

- i. Revised Form-I & Pre-Feasibility Report.
- ii. Revised land use table to be submitted.
- iii. Environment Management cost to be revised.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kutmu Stone Mine of Shri Suraj Kumar Singh, Village : Kutmu, P.S. : Pandu, Dist. : Palamu, Jharkhand (2.056 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

15. Asni Stone Mine of M/s RKD Construction Pvt. Ltd., Village : Asni, P.S. : Gumla, Dist. : Gumla, Jharkhand (2.92 Ha).

(Proposal No. : SIA/JH/MIN/216989/2021)

Name of the consultant: Indian Mine Planners & Consultants, Kolkata

This is a new project which has been taken for appraisal on 06.08.2021.

This is a Stone Mining Project with an area of 2.92 Ha. The Letter of Intent (LoI) has been issued by District Mining Office, Gumla vide letter no. 761/M dated 15.05.2021. The nearest railway station is Lohardaga at a distance of 45 km and nearest airport is Birsa Munda Airport, Ranchi at a distance of 180 km. Total water requirement is 8 KLD (Drinking : 2 KLD, Dust Suppression : 3 KLD, Plantation : 3 KLD).

The allocated project cost is Rs 16.65 Lakhs and a provision of capital cost 10.25 Lakh, recurring cost Rs 5.40 Lakh per year has been allocated/apportioned for Environment management.

Details of Khata no. & Plot no. of the mine :

Khata no.	Plot no.
24	2733 P, 2734, 2735 & 2737 P
52	2730 P, 2731
66	2721, 2722, 2727 & 2728

Co-ordinates of the mine :

Latitude	Longitude
23°3'38.66" N to 23°3'45.07" N	84°34'0.65" E to 84°34'4.83" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,05,933.70 Cum (10,96,021 Tonne)

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

Year	Production of stone (Cum)	Production of stone (tonne)
1 st	73,350	1,98,045
2 nd	73,350	1,98,045
3 rd	73,350	1,98,045
4 th	73,350	1,98,045

5 th	73,350	1,98,045
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The proposed production capacity is 73,350 cum (1,98,045 tonne) per annum. Life of Mine is 10 years. Total waste is 11790 cum and no dump area is proposed.

DFO, Wildlife Ranchi vide memo no. 496, dated 26.06.2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Gumla Division vide letter no. 955, dated 23.03.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gumla (Sadar) vide letter no. 341, dated 24.03.2021 has mentioned the plots no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.

DMO, Gumla vide memo no. 801/M, dated 22.06.2021 certified that one lease (2.50 Acres) exists within 500 m radius from proposed project site & Total lease area in 500 m radius is less than 5 Ha.

The DC-cum-District Magistrate, Gumla vide letter no. 846/M, dated 19.07.2021 has informed that this project is part of District Survey Report (DSR) at Gumla district and accordingly necessary action with regard to Environmental Clearance can be taken.

The Project Authorities has submitted following undertakings affirming that :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

Specific observations of the committee during appraisal are as under :

- i. Revised Form-I & Pre-Feasibility Report.

- ii. Revised land use table to be submitted.
- iii. Environment Management cost to be revised.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

- i. Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- ii. One day post monsoon baseline environmental monitoring data will be submitted with the first compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Asni Stone Mine of M/s RKD Construction Pvt. Ltd., Village : Asni, P.S. : Gumla, Dist. : Gumla, Jharkhand (2.92 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

Day 4 : August 07, 2021 [Saturday]

Consideration of Proposal

A. Matter referred by SEIAA

- i. **Armai Stone Mine of Sri Manish Kumar Lal, Village : Dumardih (Armai), Teshil + Dist. : Gumla, Jharkhand (2.430 Ha).**

The Environmental Clearance of said project was withdrawn by SEIAA vide letter no. – 608, dated – 04.22.2019 in the light of DFO, Wildlife Division, Ranchi, letter no. – 1065, dated – 24.09.2019. Here DFO reports that the project site falls within ESZ of Gumla Wildlife Sanctuary. But the DC, Gumla vide letter no. – 41/M, dated - 08.11.2021 has informed that project is situated in mouza – Armai & the village is not included in the list of villages of ESZ of Gumla Wildlife Sanctuary. The error about precise location of project site crept in DFO report for wrong information submitted by PA inadvertently.

Subject matter was considered by the committee in the meeting. Hence, it was decided that PA accompanied by its consultant to present the case in the next SEAC meeting for consideration of restoring Environmental Clearance granted vide letter no. EC/SEIAA/2014-15/480/2014/2434, dated – 30.12.2015.

- ii. **Residential Project of M/s Patratu Vidyut Utpadan Nigam at Village :- Katia, Patratu, Dist. : Ramgarh, Jharkhand.**

The said project has been forwarded by SEIAA for reconsideration of condition no: Part B – Specific condition no – 1, Preconstruction phase: Point no. – (ii) which has been recommended by erstwhile SEAC vide its 65th meeting held on 07 – 09th Jan, 2019 is as under:-

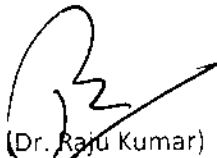
*"It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable and should be visible even after the completion of project. **The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost).** Security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities."*

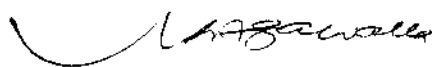
The project authority vide letter no. – PVUN/Township/4, dated – 06.07.2021 has requested authority to provide Methodology for deposition of the security money given.

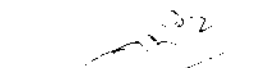
In the light of above pray, committee recommends that said security money shall be deposited with JSPCB in the form of Bank Guarantee. The money will be released only after successful compliance of the stipulated CSR conditions.

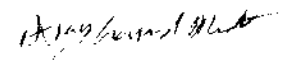
The SEIAA is requested to communicate with PA's suitably in this regard.

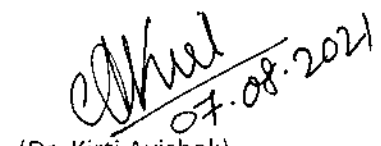
The meeting concluded with thanks to all present.


(Dr. Raju Kumar)
Member


(Niranjana Lal Agarwalla)
Member


(Ashok Kumar Dubey)
Secretary


(Dr. Ajay Govind Bhatt)
Member


(Dr. Kirti Avishek)
Member


(Ashok Kumar Singh)
Chairman

I. Statutory compliance

- i. This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- ii. The Project proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- iii. The Hon'ble Supreme Court vide order dated 08.01.2020 in W.P. (Civil) No.114/2014 in the matter of Common Cause vs. Union of India has directed that the area which has been mined should be restored so that grass and other vegetation including trees can grow in the mining area for the benefit of animals.

"The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

- iv. The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- v. This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- vi. This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- vii. Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- viii. The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- ix. The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- x. The Project Proponent shall follow the mitigation measures provided in MoEF&CC's Office Memorandum No. Z-11013/57/2014-IAJI (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects

wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

- xi. The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- xii. A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- xiii. State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- xiv. The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.Environmentclearance.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF & CC Regional Office for compliance and record.
- xv. The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

- i. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2; CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCUI, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- ii. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance: Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central Pollution Control Board.

III. Water quality monitoring and preservation

- i. In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- ii. Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- iii. Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- iv. The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

- v. Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IAJ (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- vi. Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.
- vii. Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- viii. The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

IV. Noise and vibration monitoring and prevention

- i. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- ii. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- iii. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining Plan

- i. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining,

overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.

- ii. The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- iii. The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office.

VI. Land reclamation

- i. The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- ii. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- iii. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
- iv. The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.

- v. The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
- vi. Catch drains, settling tanks and ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
- vii. Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
- viii. The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.

VII. Transportation

- i. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- ii. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt

conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

- i. The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- ii. The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- iii. The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- iv. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.
- v. And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

IX. Public hearing and human health issues

- i. The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.

- ii. The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.
- iii. The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium-Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).
- iv. The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.

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- v. The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- vi. Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- vii. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

X. Corporate Environment Responsibility (CER)

- i. The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.
- ii. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office.

XI. Miscellaneous

- i. The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.
- ii. The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- iii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.
- iv. A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental

Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.

- v. The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.
- vi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- vii. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- viii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- ix. The Environmental Clearance accorded shall be valid for the period of lease of the mine, the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.

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

1. The EIA Report shall be prepared 7,50,000 TPA (Peak) rated capacity in an ML / project area of 117.80 ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
2. An EIA-EMP Report would be prepared for 7,50,000 TPA (Peak) rated capacity to cover the impacts and management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for 7,50,000 TPA (Peak) of coal production based on approved project/Mining Plan for 7,50,000 TPA (Peak). Baseline data collection can be for any season except monsoon.
3. A map specifying locations of the State, District and Project location should be provided.
4. A Study area map of the core zone and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given.
5. Land use map (1: 50,000 scale) based on a recent satellite imagery of the study area may also be provided with explanatory note on the land use.
6. Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
7. A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
8. A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
9. In case of any proposed diversion of nallah/canal/river, the proposed route of diversion /modification of drainage and their realignment, construction of embankment etc. should also be shown on the map as per the approval of Irrigation and Flood Control Department of the concerned state.

10. Similarly if the project involves diversion of any road/railway line passing through the ML/project area, the proposed route of diversion and its realignment should be shown in the map.
11. Break up of lease/project area as per different land uses and their stage of acquisition should be provided.

Land use details for opencast project should be given as per the following table :

S. N.	Land use	Within ML area	Outside ML area	Total
1.	Agricultural land			
2.	Forest land			
3.	Wasteland			
4.	Grazing land			
5.	Surface water bodies			
6.	Settlements			
7.	Others (specify)			

12. Break-up of lease/project area as per mining operations should be provided.
13. Impact of changes in the land use due to the project, if much of the land being acquired is predominantly agricultural land/forestland/grazing land.
14. One-season (non-monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
15. Map of the study area (1: 50, 000 scale) (core and buffer zone clearly delineating the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources should be provided. The number and location of the stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Values should be provided based on desirable limits.
16. Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora fauna and, or if the area is occasionally visited or used as a habitat by Schedule-I fauna, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan should be prepared and submitted with EIA-EMP Report; and comments from the CWLW of the State Govt. should also be obtained and furnished.
17. Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar

plans of production from the approved Mining Plan. Geological maps and sections should be included.

18. Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
19. Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
20. Detailed water balance along with flow chart should be provided. The break-up of water requirement for the various mine operations should be given separately.
21. Source of water for use in mine, sanction of the competent authority in the State Govt. and impacts vis-à-vis the competing users should be given.
22. Impact of mining and water abstraction use in mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
23. Impact of blasting, noise and vibrations should be given.
24. Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.
25. Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop, management plan for maintenance of HEMM, machinery, equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
26. Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP / Silo entirely wagons and into trucks / tippers.
27. Details of waste OB and topsoil generated as per the approved calendar programme, and their management shown in figures as well explanatory notes tables giving progressive development and mine closure plan, green belt development, backfilling programme and conceptual post mining land use should be given. OB dump heights and terracing based on slope stability studies with a max of 28° angle as the ultimate slope should be given. Sections of final dumps (both longitudinal and cross section) with relation to the adjacent area should be shown.
28. Efforts be made for maximizing progressive internal dumping of O.B., sequential mining, external dump on coal bearing area and later rehandling into the mine void--to reduce land degradation.
29. Impact of change in land use from mining operations and whether the land can be restored to agriculture use post mining.
30. Progressive Green belt and Ecological restoration /afforestation plan (both in text, figures and in the tabular form as per the format of MOEF&CC given below) and selection of species (native) based on original survey/land use should be given.

31. Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the status of pre- mining should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of rehandling (wherever applicable) and backfilling and progressive mine closure and reclamation should be detailed.

Table 3 : Post-Mining land use pattern of ML / Project area (ha)

Land use during mining	Land use (ha)				
	External OB dump	Plantation	Water body	Public use	Undisturbed
Top soil dump					
Excavation					
Roads					
Built up area					
Green belt					
Undisturbed area					
		Total			

32. Flow chart of water balance should be provided. Treatment of effluents from workshop, township, domestic wastewater, mine water discharge, etc. should be provided. Details of STP in colony and ETP in mine should be given. Recycling of water to the max. possible extent should be accorded ?.
33. Occupational health issues. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower in the mine should be given.
34. Risk Assessment and Disaster Preparedness and Management Plan should be provided.
35. Integration of the Environmental Management Plan with measures for minimizing use of natural resources - water, land, energy, etc. should be carried out.
36. Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
37. Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing

amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.

38. CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
39. Corporate Environment Responsibility:
- a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
 - d) To have proper checks and balances, the company should have a well laid down 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.
40. Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of public hearing, the points raised by the general public and commitments made by the proponent and the action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.
41. In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.
42. Status of any litigations/ court cases filed/pending on the project should be provided.
43. Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.
44. Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.

Details on the Forest Clearance should be given as per the format given :

Total ML / Project area (ha)	Total forest land (ha)	Date of FC	Extent of forest land	Balance area for which FC is yet to be obtained	Status of application for diversion of forest land

45. Besides 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 mining projects as prescribed by the Ministry shall also be filled and submitted.
- f) Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
- 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.
- h) 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. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH process again with the revised documentation.

The EIA report should also include

1. surface plan of the area indicating Contours of main topographic features, drainage and mining area.
2. geological maps and sections and
3. sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.

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.

I. Statutory Compliance

- i. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.
- xii. Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.
- xiii. All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.

- xiv. All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peak hours.
- xv. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xvi. Water during construction phase should be preferred from Municipal supply.
- xvii. Unskilled construction labourers shall be recruited from the local areas.
- xviii. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
- xix. Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forests, Government of India shall be adopted.
- xx. Rest room facilities shall be provided for service population.
- xxi. Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.
- xxii. Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.
- xxiii. Project proponent shall install Wind Augmentation and Air Purifying Unit (4 Units at one location in Ranchi) on Pilot basis to deal with particulate matter pollution.

II. Air quality monitoring and preservation

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under

construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

- vi. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the

balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xvi. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.

- xviii. No sewage or untreated effluent water would be discharged through storm water drains.
- xix. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxi. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

- iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.

- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

- i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
- ii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iii. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

VIII. Transport

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban

Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

IX. Human Health Issues

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

XI. Miscellaneous

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned

Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.

- xiv. The above conditions shall be enforced, inter-alia under the provisions of 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 and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

Any appeal against this EC 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.