

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IMPACT ASSESSMENT DIVISION)
NON-COAL MINING SECTOR**

SUMMARY RECORD OF 30th MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 30th meeting of the Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 6th-8th April, 2021 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0) Deliberation & Circulation on the Minutes of the 29th EAC Meeting held during 15th-17th March, 2021

The minutes of 29th EAC Meeting held during 15th-17th March, 2021 was placed before the members of the Committee.

DAY 1: 06.04.2021

1.1: Proposal for Environmental Clearance (EC) for Aridongri Iron Ore mine of M/s Godawari Power and Ispat Limited for enhancement of iron ore production from 1.405 MTPA to 2.35 MTPA (Iron Ore 1.8 MTPA & BMQ 0.55 MTPA), Dolerite OB 3.949 MTPA, Interburden (IB) 3.071 MTPA (Total Excavation 9.37 MTPA) along with setting up of Banded Magnetite Quartzite (BMQ) Beneficiation plant of 0.6 MTPA capacity, 250 TPH Iron Ore Screening Pant with magnetic separator for processing of low grade material and 2 MTPA Dolerite Crushing & Screening Plant in 2 modules of 1 MTPA, within the existing mining lease of 138.96 Ha at Village Kachche, Tehsil Bhanuparatppur, District Uttar Bastar (Kanker), Chhattisgarh [Proposal no: IA/CG/MIN/203724/2021; File No. J-11015/384/2012-IA-II(M)] - Environmental Clearance (EC)

The proposal of M/s Godawari Power and Ispat Limited is for grant of Environmental Clearance for Aridongri Iron Ore mine for enhancement of iron ore production from 1.405 MTPA to 2.35 MTPA (Iron Ore 1.8 MTPA & BMQ 0.55 MTPA), Dolerite OB 3.949 MTPA, Interburden (IB) 3.071 MTPA (Total Excavation 9.37 MTPA) along with setting up of Banded Magnetite Quartzite (BMQ) Beneficiation plant of 0.6 MTPA capacity, 250 TPH Iron Ore Screening Pant with magnetic separator for

processing of low grade material and 2 MTPA Dolerite Crushing & Screening Plant in 2 modules of 1 MTPA, within the existing mining lease of 138.96 Ha at Village Kachche, Tehsil Bhanupratppur, District Uttar Bastar (Kanker), Chhattisgarh. The mine lease area falls under the Survey of India Toposheet No 64 H/3 and bounded by Latitude 20°24'09.33642"N to 20°25'01.51454"N and longitude 81°03'33.73692" E to 81°04'13.28954" E and falls in seismic zone-II.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category "A," as the Mining lease area is more than 100 Ha. Project Proponent applied under Schedule 1(a) Mining of Minerals & 2(b) Mineral beneficiation.

3. The Project Proponent submitted that initially Environmental Clearance was obtained vide letter no J-11015/339/2006-IA.II(M) dated 25th June, 2007 for production capacity of 0.705 Million Tonnes per Annum (7,05,000TPA) over an mine lease area of 106.60 Ha. Further PP submitted that the Environment Clearance for expansion of Iron Ore Mining Lease Area from 106.60 ha. to 138.96 ha and enhancement production capacity from 0.705 to 1.405 MTPA by the amalgamated mine lease area of 138.96ha was accorded by MoEF&CC vide letter no. J-11015/384/2012-IA.II(M) dated 12.12.2014 and subsequently Amendment in Environment Clearance to install an iron ore crusher of 400 TPH with screening facilities within the mine lease area of 138.96ha was accorded by the Ministry vide Letter No. J-11015/384/ 2012-IA.II (M) dated 26th May, 2016.

The Project Proponent submitted that the proposal for Terms of Reference (ToR) vide proposal no: IA/CG/MIN/130756/2019 dated 21.05.2020 and the proposal was considered in the EAC meeting held during 22-24 June, 2020 & 23-25 Sep, 2020 and the Ministry granted ToR vide letter No. J-11015/384/ 2012-IA.II(M) dated 13.11.2020. Then, PP applied for Environmental Clearance vide online proposal no. IA/CG/MIN/195912/2020 on 05.02.2021 and submitted the Form2 and EIA report after conducting the Public Hearing. The proposal was considered in the 28th EAC meeting held during 24th-26th February, 2021 wherein *the Committee noted that the ToR dated 13.11.2020 was granted for 1 (a) Mining of Minerals and 2(b) Mineral Beneficiation, but PP has applied only for 1 (a) Mining of Minerals for grant of EC. PP has not submitted complete proposal. Therefore, the Committee returned the proposal in the present form and is of the view that the Project Proponent shall apply a fresh with the additional information sought.* In view of the above, the PP submitted the revised Form 2 vide proposal IA/CG/MIN/203724/2021 dated 17.03.2021 along with the information sought in 28th EAC meeting and the proposal was considered in the 30th EAC meeting held during 6th-8th April, 2021.

4. The Project Proponent submitted that earlier, there were two leases i.e., 106.60 ha lease & 32.36 ha. leases in Kachche Aridongri Iron Ore Mines. Initially the lease was granted over an area of 106.60ha vide letter no 3- 58/2003/12(2) dated 22.09 .2008 and the Lease deed was executed on 30.09.2008 for a period of 20 years i.e., up to 30.09.2028 and PP also submitted that the letter of Intent (LOI) issued by Department of Mineral Resources, Govt of Chhattisgarh in favour of GPIL for 32. 36ha vide letter dated 08.10.2010. Lease deed for 32.36 Ha was executed on 12.05.2015 for a period of 50 years i.e. up to 11.05.2065. These two leases were amalgamated in the year 2015. Thus, total lease area of Kachche Aridongri Iron Ore Mines is 138.96 Ha, as on date. Lease deed for amalgamated Kachche Aridongri Iron Ore Lease was executed on 03.09.2015 for a lease area of 138.96 ha. Stating that lease period of grant of mining lease executed between the parties shall be governed by section 8A of the Mines and Minerals (Development and Regulation) (Amendment) Ordinance, 2015 and the period of mining lease shall be ext ended accordingly up to 30.09.2008 to 29.09.2058 for a period of 50 years for both the leases. PP also submitted that in principle approval/ permission for disposal of Dolerite has been obtained from Department of Mineral Resource, Govt. of Chhattisgarh vide letter no. F 7- 29/2016/12 Naya Raipur Atal Nagar dated 17.08.2020. PP has also submitted that since the mine is facing acute shortage of space for waste dumping, dolerite crushing and screening plant within the existing lease has also been envisaged to be constructed for sizing of Dolerite, which is being mined as overburden waste and presently being dumped in existing waste dump. In principle approval for disposal of Minor Mineral Dolerite, obtained during excavation of Iron Ore, within the Mines has been accorded by Department of Mineral Resources, Chhattisgarh Govt., Nawa Raipur Chhattisgarh vide letter no. F 7-29/2016/12 dated 21.09.2020.

5. The Project Proponent submitted that the Review of Mining Plan & Progressive Mine Closure Plan for an area of 138.96 Ha has been approved by Indian Bureau of Mines, Raipur vide letter no. KNK/FE/MPLN-1227/2019 dated 09.01.2020 for the period 2020-21 to 2024-25. Plan for disposal of Dolerite, generated till end of mine life, has been approved by Mining officer District Uttar Bastar Kanker vide letter no. 1069.KHANIJ/DOLERITE/2020-21dated 04.02.2021. PP also submitted that additionally, Mining Plan (Quarry Plan) for mining & disposal of Dolerite Overburden (Minor Mineral) obtained during mining of Iron ore from Kachche Aridongri iron ore mine has been approved by Mining Officer District Uttar Baster Kanker vide letter no. 1234/UTH.YO.ANU/Dolerite/2020-21 dated 02.03.2021.

6. The Project Proponent Method of mining will be fully mechanized opencast mining with formation of benches by drilling and blasting. There will be no change in existing method of mining. ROM (iron ore), BMQ and Dolerite produced from the quarry will be transported by 25t/31 t capacity tippers/dumpers up to feed hopper of respective plants. Processed ore from loading silo in mining lease is transported up to end-use

plant located at Siltara by tarpaulin covered trucks. PP reported that the total geological reserve is 34.517 Million Tons and total mineable reserve is 21.538 Million Tonnes and that of Banded Magnetite Quartzite (BMQ) is 8.713 Million Tonnes. Thus, total mineable reserve of the deposit is 30.251 Million Tonnes. Rated capacity of the mine will be 2.35 Million Tonnes/annum. Life of the mine is 15.84 years based on present reserve of Iron Ore and BMQ and proposed rated capacity. A total of 11.523 Mm³ of wastes will be generated from entire Kachche Aridongri Iron Ore Mines during the planned period i.e., up to FY 2024-25. Out of this, 7.863 Mm³ waste will be dumped in the proposed waste dump WD1, 0.806 Mm³ waste will be dumped in the proposed backfill BF1 and balance 2.854 Mm³ of waste will be dumped in external dumps WD3, WD4, WD5 & WD6. A total of 27.27 Mm³ of waste will be generated up to conceptual stage. The 11.791 Mm³ of Dolerite dumped in waste dump WD 1 to WD7 from year 2020-21 to conceptual stage has been proposed to be utilized after due crushing & screening. PP submitted the Dolerite management plan vide Lr no GPIL/2020-21/07 dated 06.04.2021.

7. The Project Proponent submitted that the nearest habitation is Kachche (~700 m, E) and Nearest School is Primary School Kachche (~900m, E) from the mine site. Nearest highway is SH 5 (~1 km E).

8. The Project Proponent submitted that the total water requirement in this project site is 414 cu.m (40 cu.m/day is fresh water and 374 cu.m/day is Industrial Consumption). Out of the 374 m³/day Industrial water requirement, 260 m³ /day industrial water requirements have been planned to be met through bore well and balance 114 m³/day from mine water. The mine has already taken the permission from CGWA vide letter no CGWA/NOC/MIN/ORIG/2018/3585 dated 04.09.2018 for drawl of 300 cu.m/day of water through bore wells, Balance 114 cu.m/day water requirement will be met through mine water. PP submitted that renewal application vide File No 21-4/70D/CT/MIN/2017 is under process with CGWA. PP also submitted that maximum water requirement as per earlier EC was 25 KLD which has now increased to 414 KLD as per present proposal. At present only dry crushing and screening is being done at Aridongri Iron Ore Mines. No wet processing of Iron Ore is being done at the Mines. Presently water is only being utilized for drinking purpose and for dust suppression in crushing and screening plant which is within the permitted water quantity. However, in the present proposal, there is a proposal for setting up of a -beneficiation Plant of 0.6 MTPA Capacity within the lease for beneficiation of Banded Magnetite Quartzite (BMQ). The beneficiation plant will not only include separate crushing and screening for BMQ but also the grinding, floatation, magnetic separation and filtration etc. of BMQ. Therefore, water demand has increased to cater the water requirement of BMQ Beneficiation plant, dust suppression in BMQ beneficiation plant and drinking water requirement of additional manpower etc.

9. The Project Proponent submitted that a total of 86835 no. of saplings covering an area of 29.40 ha has been already planted in the existing mining lease area which has been duly certified by DFO, Bhanupratappur after site inspection vide letter no. Ma.chi/2020/4558, Bhanupratappur dated 14.08.2020. PP also reported that additionally 68,539 no of plants will be planted during the plan period. Budget of Rs. 171.3 lakhs have been earmarked for Greenbelt development. PP submitted the undertaking vide Lr no GPIL/2020-21/06 dated 06.04.2021 that plantation shall be carried out to achieve 100% survival rate as well as total plantation for 100% survival within existing mining lease area/inside along the mining lease boundary of 138.96 Ha within a period of 6months as per rules.

10. The Project Proponent submitted that Out of the total 138.96 Ha (Amalgamated Lease Area), 127.40 Ha is forest Land and remaining 11.56 Ha is a revenue land. PP has obtained Forest clearance for diversion of forest land of 106.60 ha vide letter no. 8-5/2007-FC dated 04.08.2008 and for 32.36 Ha vide letter no. 8-36/2012-FC dated 19.02.2015. A Certificate "Form C" from District Collector, Uttar Bastar Kanker has been obtained under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006. There is no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger Reserves, Wildlife Corridors, Critically Polluted Area, etc., within 10 km radius of mining lease area.

11. The Project Proponent reported that there is no Schedule-I species found in the study area. However, a Wildlife Conservation plan with budget of 130 Lakh has been approved by PCCF (Wild Life Management and Bio Diversity Conservation cum Chief Wildlife Warden), Chhattisgarh vide letter KRAMANK/V.PRA/PRABHAND-134/2019/2617 ATAL NAGAR dated 30.04.2019.

12. The Project Proponent submitted that one season primary baseline data for ambient air quality, (as per CPCB quality Notification, 2009), water quality, noise level, soil and flora & fauna has been collected during Summer Season (March to May 2020). The pre dominant downwind direction is from SW direction. The concentrations of PM₁₀ and PM_{2.5} for all the 10 AAQM stations were found between 20.0 to 88.0 µg/m³ and 16.0 to 48.0 µg/m³, respectively. The concentrations of SO₂ and NO_x were found to be in range of 4.0 to 22.0 µg/m³ and 14.0 to 36.0 µg/m³ respectively. PP also submitted that post project concentration of air pollutants is also well within the prescribed standards of NAAQS. Ambient noise levels were measured at 10 locations in and around the mine site and Noise levels varied from 43.7 to 68.6 Leq dB (A) during day time and from 31.0 to 48.2 Leq dB (A) during night time. The Surface water analysis was carried out at 10 locations and parameters like pH varies from 7.03 to 7.56, Total Hardness varies from 66 to 288 mg/L, Total Dissolved Solids varies from 82.5 to 604 mg/L, Dissolved Oxygen – 4.2 mg/l to 5.8 mg/l etc. are found within the permissible limits. The ground water

analysis was carried out at 10 locations and parameters Like pH varies from 6.66 to 9.87, Total Hardness varies from 90 to 436 mg/L, Total Dissolved Solids varies from 180 to 850 mg/L, Chlorides – 12.9 to 197 mg/l etc. are found within the permissible limits.

13. The Project Proponent submitted the District Survey Report approved by the Assistant Mining Officer Uttar Baster Kanker on 03.07.2019.

14. The Project Proponent submitted that the advertisement for public hearing was published in 'Dainik Bhaskar' and 'Hindustan Times' on 06.12.2020. Public hearing was conducted on 09.01.2021 at Janpad Panchayat Bhawan Bhanupratappur under Chairmanship of Shree M.R. Chelak, Additional Deputy Collector, Uttar Baster. PP reported that 132 persons attended the Public Hearing. Issues raised during public hearing were related to Employment of Locals, Infrastructure Development, Sanitation and Hygiene, Community Development, Health Facility etc., An amount of Rs. 610.06 Lakh has been earmarked to address the issues raised during public hearing.

15. The Project Proponent submitted that there is no habitation and private land within the existing mine lease area. No additional land will be acquired for mining or any other project related activity hence Rehabilitation and Resettlement is not involved under the present proposal.

16. The Project Proponent submitted that there is no any Court Cases pending against the project and/or land in which the project is proposed to be set up.

17. The Project Proponent submitted the past production details duly authenticated by the Department of Mines and Geology, State Government for the period from 2008-09 to 2019-20 vide its letter No. 90/Khanij/Kh.P./2020-21, dated 20.05.2020. The production details are within the production capacity of 1.405 MTPA. PP also submitted the affidavit dated 18.08.2020 that the PP shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors before grant of EC.

18. The Project Proponent submitted that Consent to establish (CTE) under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981 for 0.705 Million Tonnes per Annum capacity was granted by Chhattisgarh Environment Conservation, Board (CECB), Raipur vide letter no 5158/TS/CECB/2007 dated 18.09.2007. Then CTE was granted by Chhattisgarh Environment Conservation Board (CECB) vide letter no. 3027/TS/CECB/2015 dated 05.10.2015 for expansion of lease area from 106.60 ha to 138.96 ha and enhancement of production capacity from 0.705 to 1.405 MTPA. CTE for the amendment for installation of 400 TPH Crushing & Screening facility within 138.96 Ha mine lease area

was issued by CECB vide letter no. 4928/TS/CECB/2016 dated 07.12.2016. Consent to Operate under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981 was obtained for 0.705 Million Tonnes per Annum capacity on 08.09.2008. Renewal of CTO was made from time to time. Last CTO renewal granted by CECB vide letter no. 8414 /TS/CECB/2020 dated 29.12.2020 is valid till 05.01.2022. PP also submitted the EC compliance Report duly authenticated by the Regional Office of the Ministry vide letter dated F.No. 3-9/2015(ENV)/7354 dated 19.10.2020.

19. The Project Proponent has given undertaking that the data and information given in the application and enclosures are true to be best of my knowledge and belief. And I am aware that if any part of the data and information found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost. The Consultant also submitted an undertaking that the Consultant Organization shall be fully responsible for any misleading information mentioned in this statement.

20. The Project Proponent submitted that the total capital cost of the project is Rs. 6,147 Lakhs and capital cost for Environment Management Plan is Rs 395.22 Lakh and recurring cost is Rs. 48.41 Lakh/Annum. PP allocated budget of Rs. 60 Lakhs for Occupational Health and Safety. PP reported that expansion of the mine shall provide an opportunity of direct employment to 50 people. PP has already employed 1091 persons after the expansion total employee capacity will be 1141 persons.

21. The proposal was considered in the 28th EAC meeting held during 24th-26th February, 2021 wherein the Committee returned the proposal in the present form and is of the view that the Project Proponent shall apply a fresh with the additional information sought. In view of the above, the PP submitted the revised Form 2 vide proposal IA/CG/MIN/203724/2021 dated 17.03.2021 along with the information sought in 28th EAC meeting as mentioned below: -

S. No	Information as sought by EAC	Reply/Document
1	The Project Proponent needs to submit the revised Form-2 including 2(b) Mineral Beneficiation to integrate BMQ Beneficiation plant of 0.6 MTPA capacity.	PP submitted that the Form2 has revised by including 2(b) Mineral Beneficiation to integrate BMQ Beneficiation plant of 0.6 MTPA capacity and resubmitted. Presently Form 2 has been submitted under schedule 1(a) "Mining of Minerals" and 2(b) "Mineral Beneficiation".
2	The Mining Plan should also include Mineral Dolomite and needs to be	PP submitted that the Review of Mining Plan submitted with the project

	approved by the Competent Authority.	<p>application includes Dolerite. "Review of Mining Plan along with Mine Closure Plan" with detail of dolerite has been approved by Regional Controller of Mines, IBM Raipur vide letter no. KNK/FE/MPLN-1227/2019 dated 09.01.2020.</p> <p>Additionally, Mining Plan (Quarry Plan) for mining & disposal of Dolerite Overburden (Minor Mineral) obtained during mining of Iron ore from Kachche Aridongri iron ore mine has been approved by Mining Officer District Uttar Baster Kanker vide letter no. 1234/UTH.YO.ANU/Dolerite/2020-21 dated 02.03.2021. Mining Plan is enclosed as Annexure.</p>
3	The Project Proponent shall submit the land use pattern showing the existing pit area, dump location, stackyard and other surface features with the help of remote sensing imagery.	PP submitted the remote sensing imagery showing the land use pattern with existing pit area, dump location, stack yard and other surface features.
4	The Project Proponent should submit the material balance showing flow sheet indicating the total mineral handled in each process.	PP submitted the material balance showing flow sheet indicating the total mineral handled in each process is given in Chapter 2 item no 2.10.2 (B) at page no 66 of the revised EIA report.
5	The Project Proponent should address the Impact Assessment considering the total excavation including dolerite in the EIA report.	PP submitted that the EIA report has been prepared on the basis of total excavation including Dolerite. Detail of total excavation is given in Chapter 2 of EIA report under item no 2.9.2 table no 2.11 at page no 46 and the complete EIA report is attached as Annexure.
6	The Committee observed that the survival rate of 72% shown by the Project Proponent is not acceptable. The Project Proponent shall undertake the peripheral plantation as well as gap plantation within 6 months with the seedling of 6-8 ft height with at least 90% survival rate. An	<p>PP undertakes that the peripheral plantation as well as gap plantation will be done within 6 months with the seedling of 6-8 ft height with at least 90% survival rate and the undertaking for the same is attached as Annexure.</p> <p>The revised green belt as per the 90%</p>

	undertaking for the same also needs to be submitted by PP. The PP should also revise the budget proposed for EMP for plantation with proper recurring cost to be spent every year.	<p>survival rate and revised budget of the same is described in Chapter 4 of EIA report under the head 4.13 at page no 246 and accordingly plantation budget at Table 4.26 of EIA report is also revised.</p> <p>As per the revised plantation budget the EMP budget has also been revised and the detail of the same is given in Chapter 10 of the EIA report under the head 10.4.1 at page no 386.</p>
7	The conservation plan prepared with the budgetary allocation of Rs 130 lakhs should not include the cost for purchasing vehicles and if it is included, the same should be distributed to other parameters covered in the conservation plan.	PP submitted that the cost for vehicles purchasing has not been included in the conservation plan prepared with the budgetary allocation of Rs 130 Lakhs.
8	The Project Proponent has to submit the valid NOC from CGWA for ground water withdrawal.	PP submitted that the permission from CGWA has been obtained vide letter no CGWA/NOC/MIN/ORIG/2018/3585 dated 04.09.2018 and the renewal application attached for the same has also been filed in CGWA vide File No 21-4/70D/CT/MIN/2017. NOC and renewal application attached as Annexure. Site Inspection of the competent authority of CGWA has also been completed. Renewal application is under process at CGWA.
9	The Project Proponent needs to submit the Test report of chemical composition of the mineral and percentage of free silica from a NABL/MoEF&CC accredited laboratory.	PP submitted the Test report of chemical composition of the mineral and percentage of free silica has been monitored by the M/s Ultimate Enviroltcal Solutions which is a NABL/MoEF&CC accredited laboratory and it is attached as Annexure.

22. The proposal for Environmental Clearance (EC) was considered before the Expert Appraisal Committee (Non-Coal Mining) in its 30th EAC meeting held during 6th - 8th April, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance for Aridongri Iron Ore mine for enhancement of iron

ore production from 1.405 MTPA to 2.35 MTPA (Iron Ore 1.8 MTPA & BMQ 0.55 MTPA), Dolerite OB 3.949 MTPA, Interburden (IB) 3.071 MTPA (Total Excavation 9.37 MTPA) along with setting up of Banded Magnetite Quartzite (BMQ) Beneficiation plant of 0.6 MTPA capacity, 250 TPH Iron Ore Screening Plant with magnetic separator for processing of low grade material and 2 MTPA Dolerite Crushing & Screening Plant in 2 modules of 1 MTPA, within the existing mining lease of 138.96 Ha at Village Kachche, Tehsil Bhanuparatppur, District Uttar Bastar (Kanker), Chhattisgarh with the following specific conditions in addition to the standard conditions applicable for non- coal mining projects:-

- i. The Project Proponent shall undertake the plantation in peripheral zone and ensure that the plantation in peripheral zone and plantation along haul roads should be completed within 3 years from the date of commencement of mining operations with at least 90% survival rate. Casualties of the previous year should be replaced other than the saplings proposed to be planted every year. PP shall provide tree guard to maintain the early stages of plant growth.
- ii. PP shall take necessary steps to avoid the fugitive dust emission due to mining activities and vehicle movement. The roads shall be regularly cleaned and maintained in proper conditions by the project authorities.
- iii. The budgetary plan of Rs. 610.06 Lakh proposed to address the public concerns should be strictly followed and completed within 3 years and the development should be submitted during submission of EC compliance. PP shall also organize employment based apprenticeship/ internship training program with stipend for the youth and other programs to enhance the skill of the local people.
- iv. PP shall explore more possibilities to augment ground water resources in the area.
- v. PP shall ensure the adequate safety measures to avoid dust inhalation by workers and pollution control measures adopted during drilling and blasting.
- vi. The Project Proponent shall obtain the NOC from CGWA for withdrawal of water before undertaking mining operations.

1.2 Proposal for Terms of Reference for Expansion in Limestone Production Capacity from 3.8 Million TPA to 12.5 Million TPA, Top Soil: 0.1455 Million TPA and Over burden: 1.1257 Million TPA (Total Excavation: 13.7712 Million TPA) and One existing crusher of 1200 TPH & installation of one additional proposed

crusher of 1200 TPH along with Wobbler in Kodla Limestone Mine (ML Area: 517.61 ha, M.L. No.: 2673 & 2674) at Villages: Kodla & Benakanahalli, Taluka: Sedam, District: Kalaburagi, Karnataka by M/s Shree Cement Ltd - [Proposal no: IA/KA/MIN/204758/2021; File No. IA-J-11015/24/2021-IA-II(M)] – Terms of Reference (ToR)

The proposal for Terms of Reference of M/s Shree Cement Ltd is for Expansion in Limestone Production Capacity from 3.8 Million TPA to 12.5 Million TPA, Top Soil: 0.1455 Million TPA and Over burden: 1.1257 Million TPA (Total Excavation: 13.7712 Million TPA) and One existing crusher of 1200 TPH & installation of one additional proposed crusher of 1200 TPH along with Wobbler in Kodla Limestone Mine (ML Area: 517.61 ha, M.L. No.: 2673 & 2674) located at Villages: Kodla & Benakanahalli, Taluka: Sedam, District: Kalaburagi, Karnataka. The mining lease is covered under SOI Toposheet No: 56 G/4, 56G/8, 56H/1 & 56 H/5 and bounded by Latitude between 17°00'41.48402"N to 17°02'23.14289"N and Longitude between 77°12'37.9107"E to 77°14'24.3641"E and falls in seismic zone – II.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A as the mining lease area is greater than 100 ha. PP applied under Schedule 1(a) Mining of Minerals and 2(b) Mineral Beneficiation.

3. The Project Proponent earlier obtained Integrated Environmental Clearance vide MoEF Lr F.No. J-11011/458/2008-IA.II (I) dated 19.09.2012 for Captive Limestone mine of 3.8 MTPA in a MLA – 551.36 Ha. Then, PP obtained Amendment in Environmental Clearance w.r.t. reduction in lease area from 551.36 Ha to 517.61 Ha vide MoEF&CC F.No. Lr J-11011/458/2008-IA.II (I) dated 09.02.2018. The Project Proponent submitted the proposal for Terms of Reference vide online proposal No. IA/KA/MIN/204758/2021 dated 20.03.2021 and submitted the Form-1 and Prefeasibility report. The proposal was considered in the 30th EAC meeting held during 6th-8th April, 2021.

4. The Project Proponent submitted that initially mining lease was granted in favor of M/s Shree Cement Limited over an area of 551.36 ha by the Department of Mines & Geology Bangalore, Government of Karnataka vide letter no. DMG: MLS: 957 AML 07/2009-10/7024 dated 10.09.2009 for a period of 30 years. While execution of the lease, DMG splitted the total mining lease area (i.e. 517.61 ha) into two M L areas and the same has been executed as ML No. 2673 over an area of 91.87 ha on 07.06.2014 and ML No. 2674 over an area of 425.74 ha on 05.08.2014. Thereafter, the PP applied to Director, DMG for amalgamation of both ML Area under Rule 38 of Mineral concession rules 1960 on 20.08.2014 and DMG recommended the State Government for amalgamation on 18.09.2015 and the State Government granted the permission for amalgamation vide letter no. C17 CMC 2016 dated 04.05.2017. The amalgamated mining lease deed has been executed over an area of 517.61 ha by Department of

Mines & Geology Bangalore, Government of Karnataka vide letter no. DMG/MLS/ML-2673/2674/2018-4453 dated 05.11.2018 up to 06.06.2044 (Coterminous with Lease period whose period will expire first). PP also submitted that as per section 8A of MMDR Amendment Ordinance, 2015, the period of grant of our mining lease extended up to 06.06.2064.

5. The Project Proponent submitted the Approval of “Modifications to the Approved Mining Plan including Progressive Mine Closure Plan” in respect of Kodla Limestone mine (ML. No 2673 / 2674) over an area of 517.61 ha approved by the Regional Controller of Mines, IBM, Bangalore Vide letter no. 279/1043/2009/BNG dated 23.02.2021 for the period 2020-21 to 2021-2022.

6. The Project Proponent submitted that the mining operation will be carried out by fully mechanized opencast method. Maximum height & width of the working bench will 12 m and 30 m respectively. PP reported that the total mineral reserve is 240.92 Million Tonnes. PP now applied for expansion in Limestone Production Capacity from 3.8 Million TPA to 12.5 Million TPA, Top Soil: 0.1455 Million TPA and Over burden: 1.1257 Million TPA (Total Excavation: 13.7712 Million TPA) and One existing crusher of 1200 TPH & installation of one additional proposed crusher of 1200 TPH along with Wobbler.

The Project Proponent submitted that the mine working will involve removal of topsoil and overburden. Top soil will be partly stacked separately in the mining lease area and partly will be used in plantation. PP reported that the total 17 Million tons of waste will be generated during the life of mine which will be backfilled in the excavated area and later will be stabilized by the plantation and re-grassification. Drilling is being/ will be carried out with the help of crawler mounted DTH hammer drills. Initiation with millisecond delay detonators/non-electric delay initiation system, multi column charging, optimized blast geometry, use of bottom air deck, shock tube detonators will be opted for control blasting. Limestone is being/ will be loaded by large size hydraulic excavators into the dumpers for onward dispatch to the crusher (for limestone) and waste dump (for over burden). Limestone is being transported to the crusher located within the existing mine site with the help of dumpers. A new crusher 1200 TPH capacity will be installed in mining lease area. The ROM Limestone will be fed to Crusher Wobbler (Primary Screening method) where +90 mm (1.25 m) part is being/will be fed into crusher, where it is crushed to <90 mm size. The <90 mm size from Crusher Wobbler is fed to Secondary screen (Double deck screen) from where (<6mm/<10mm/ <25mm) part is rejected, while + size material is added to Crushed <90 mm Limestone. Finally, the crushed limestone is being /will be sent to the cement plant by conveyor belt. The Screen waste, if any will be separated by screening system will be stored in a hopper by means of belt conveyor. From hopper it will be drawn out into dumpers & disposed off in Screen waste dumping site. In the present modified mining plan period, there will be nil

quantity of screen waste. The material is being /will be dispatched to the stock piles located within proposed cement plant premises, through the belt conveyor. The distance between the crusher and the cement plant is approximately 530 meters.

7. The Project Proponent submitted that the nearest habitations are Hulgol Village (1.5 Km, SSE), Village Kodla (~2.0Km, ENE), Village Dongaon (~2.0km, WNW) and Village RajoliBuzurg (~2.0km, SW). Nearest Primary School is located in village Hulgol and Nearest highway is SH-15 (~2.5 km, East).

8. The Project Proponent reported that the maximum ultimate depth of pit will be 458 m RL (49 m bgl) and the ground water level in Pre- monsoon ranges between 452 mRL to 447 mRL (55 m bgl to 60 m bgl) and in Post monsoon ranges between 457 mRL to 452 mRL (50 m bgl to 55 m bgl) and hence the mining activity will not intersect the ground water table. PP submitted that total water requirement after expansion will be 390 KLD which will be sourced from Kagina river & ground water. PP submitted that as per column 11 of Karnataka Ground Water Act, 2011, since there are no any areas/talukas in Kalaburagi District, it is intimated that there is no opportunity to Permission/NOC for the use of ground water in your existing bore wells. PP also submitted that NOC from District Ground Water Board obtained vide letter no. DGWOK/Bore well/2018-19/84 dated 15.06.2018 and permission to withdrawal 1500 KLD fresh water from Kagina river obtained vide letter no. No. WRD 57 KBN 2012 dated 31.07.2014. Waste water generated from the work shop is being/ will be used for dust suppression after treatment with oil water separator tank. RO reject of drinking water will be reused in Crusher for dust suppression. The domestic waste water will be treated in the septic tank and soak pit.

9. The Project Proponent submitted that the total mining lease area is 517.61 ha and at the conceptual stage, 33% of the total mine lease area i.e., 171 ha (11.17 ha around the 7.5 m safety barrier zone & 159.83 ha on backfilled area) will be developed as Green belt/plantation along with re-grassification. Native Plant species such as Babul, Ber, Amla, Imli, Shisham, Bargad, Neem, Karanj, Mango, Gulmohar, Gurhal, Arjun, Khair, Teak, Shisham, Dubai Tree, Saja etc. are being/will be planted after consultation with local forest officer and as per CPCB guidelines. Trees are being/will be planted @ 2500 Trees per hectare with 85% survival rate.

10. The Project Proponent submitted that there is no forest land involved in the mining lease area. PP reported that there is only one Reserve Forest (Yadagir Reserve Forest) exists at 8.5km distance in WSW direction from the project boundary. PP also submitted that there is no National Park, Wild Life Sanctuaries, Biosphere Reserves, Tiger Reserves, Wildlife Corridors etc. within 10km of the radius study area. PP

submitted that One season Baseline Study has been carried out during Winter Season (December-2018 to February-2019).

11. The Project Proponent submitted the Corrigendum to CFE order issued by the Karnataka State Pollution Control Board vide Lr. No PCB/MIN/CFO/2018-19/1502 dated 21.06.2018 that the mine lease area in CFE order shall be read as 517.61 Ha instead of 551.36 Ha with the same limestone mining capacity of 3.8 MTPA. The Project Proponent submitted the Consent for Operation under Air & Water Act issued by the Karnataka State Pollution Control Board vide AW-307696 dated 07.09.2018 and this consent is valid for the period from 04.08.2018 to 31.03.2022 for Limestone mining capacity of 3.8 Million TPA. The Project Proponent also submitted the Certified EC compliance report vide Lr EP/12.1/6/2012-13/Kar dated 18.03.2019.

12. The Project Proponent submitted the Annexure III and past production details issued by the Dept., of Mining and Geology, Kalaburgi vide letter dated 27.02.2019 and 10.06.2019.

13. The Project Proponent submitted that the out of total mining area 517.61 ha, PP owns 353.01 ha and 140.43 ha is government waste land while 24.17 ha is private agriculture land will be acquired by company in due course.

14. The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up.

15. The Project Proponent submitted that the total project cost for expansion is Rs. 76.48 Crore and the capital cost of Environment Management Plan for expansion is Rs. 5.67 Crore and recurring cost is Rs. 0.75 Crore. PP reported that the total man power requirement after the expansion in limestone production capacity will be 223 persons. Unskilled /semi-skilled/ manpower is being/ will be sourced from the local area and skilled manpower is being/ will be sourced from outside. Preference is being/ will be given to the locals as per their eligibility.

16. The proposal for Terms of Reference (ToR) was considered before the Expert Appraisal Committee (Non-Coal Mining) in its 30th EAC meeting held during 6th - 8th April, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the Committee **recommended** the proposal for grant of Standard Terms of Reference (ToR) for Mining and Mineral Beneficiation for Kodla Limestone Mine (ML Area: 517.61 ha, M.L. No.: 2673 & 2674) of M/s Shree Cement Ltd for Expansion in Limestone Production Capacity from 3.8 Million TPA to 12.5 Million TPA, Top Soil: 0.1455 Million TPA and Over burden: 1.1257 Million TPA (Total Excavation: 13.7712 Million TPA) and One existing crusher of 1200 TPH & installation of one additional proposed crusher of 1200 TPH along with Wobbler located at Villages:

Kodla & Benakanahalli, Taluka: Sedam, District: Kalaburagi, Karnataka for undertaking detailed EIA/EMP study along with the following specific conditions:-

- i. The Project Proponent in the EIA/EMP report must show intent to bring the mining lease back to the nature through a proper ecosystem development approach for its utilization by dwellers, wildlife, birds and other living organisms.
- ii. The Project Proponent in the EMP must show the completeness from the view point of management of excavation (4 times) which results into dust generation as well as increased transportation and effective EMP with cost and monitoring mechanism.
- iii. Since it is an operating mine, the larger interest of the people living in the area protected and further augmented to bring larger benefit to the people in that area needs to be addressed by the Project Proponent. The EMP cost should include capital cost for the facilities resulting into direct benefits to the society at large.
- iv. The Project Proponent shall prepare the conservation plan in such a way that it should address both the nature resource conservation as well as conservation of living beings.
- v. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006.
- vi. The Project Proponent shall allocate separate budget for the concerns of the people in terms of health, education, and infrastructure and environment protection. The Project Proponent also shall include the budget for the betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets.
- vii. The Project Proponent shall submit the latest EC certified compliance report.
- viii. The Project Proponent shall submit the valid NOC/permission obtained for water withdrawal of water.
- ix. The Project Proponent shall submit the Affidavit in a Non-Judicial Stamp paper to comply with all statutory requirement & judgement of Hon'ble Supreme court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India & Ors as applicable as per Ministry OM dated 30.05.2018.

1.3 Proposal for Revalidation of EC under Ministry's Notification vide S.O. (E) 1530, dated 06.04.2018 of Majhgawan Diamond Mine, Panna of M/s NMDC Ltd. with total excavation of 13.90 LTPA [ROM Kimberlite ore @ 8 LTPA and

Overburden removal @ 5.90 LTPA for production of 1.00 lakh carats of Diamonds per annum] with the mine lease area of 113.332 Ha, located at village Majhgawan, Tehsil & District Panna, Madhya Pradesh – [Proposal no: IA/MP/MIN/79085/2018; File No. IA-J-11015/120/2018-IA-II(M)] - Reconsideration of ToR

The proposal of M/s NMDC Ltd. is for main lease area of 113.332 Ha with total excavation of 13.90 LTPA [ROM Kimberlite ore @ 8 LTPA and Overburden removal @ 5.90 LTPA for production of 1.00 lakh carats of Diamonds per annum], located at village Majhgawan, Tehsil & District Panna, Madhya Pradesh. The mine lease area is covered under SOI Toposheet No: 63D/2 and bounded by Latitude: 24°38'14.47" to 24°38'56.479" N and Longitude: 80°00'40" to 80°02'21.5" E (Based on WGS-84 Datum).

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category "A," as the Mining lease area is more than 100 Ha. Project Proponent applied under Schedule 1(a) Mining of Minerals.

3. The Project Proponent submitted that the Environmental Clearance granted by the Ministry vide letter no J-11015/323/2005-IA.II (M) dated 13.01.2006 for Panna Diamond Mine (40, 000 carats to 1, 00, 000 carats) in the Mine Lease Area of 275.963 ha to M/s National Mineral Development Corp. Ltd under the EIA Notification 1994. PP submitted that the previous Environmental clearance was issued for Diamond Mining Project consisting of 2 mining leases i.e. Main Mining Lease (113.332 Ha) and Supplementary Mining Lease (162.631 Ha). PP has submitted that Ministry is issuing Environmental clearance lease wise instead of integrated E.C. comprising of two or more leases. Accordingly, the Project Proponent applied online for grant of Terms of Reference vide proposal no. IA/MP/MIN/79085/2018 dated 17.09.2018 as per Ministry's Notification vide S.O. (E) 1530, dated 06.04.2018 and the proposal was placed in the EAC meeting held on 23-24 October 2018, 24-25 September 2019, April, 20-21 2020 and in EAC meeting held on 3-5 February 2021 wherein the Committee deferred the proposal and is of the view that proposal may only be consider after all the statutory clearances obtained by the Project Proponent and site visit by sub Committee. Then, PP vide Letter NMDC/DMP/EC/2021/813 dated 18.03.2021 requested to arrange the visit of the sub-committee to ascertain the ground reality.

4. The Project Proponent vide Lr No NMDC/DMP/EC/2021 dated 30.03.2021 sought exemption from appraisal of proposal in EAC meeting and submitted the following: -

- 1) *The standing committee of NBWL, MoEF&CC was held on 18.02.2021 wherein the proposal of Panna DMP of NMDC was discussed at agenda no: 61.5.10 and minutes of meeting were circulated by Scientist D (WL), MoEF&CC vide F.No: 6-16/2021 WL dated 08.03.2021.*

- 2) *As per minutes, the standing committee decided to recommend the proposal subject to the conditions imposed by the Chief Wildlife Warden and the NTCA.*
- 3) *On perusal of the minutes of meeting circulated on 08.03.2021, it is observed that NTCA vide OM No:7-3/2021-NTCA dated 15.02.2021 has conveyed the recommendations of NTCA under section 380(1)(g) of the Wildlife (Protection) Act, 1972 for extension of Diamond mining lease of 275.963 Ha area under Gangua Wildlife Sanctuary adjoining Panna Tiger Reserve subject to fulfillment of conditions laid down by Chief Wildlife Warden, Madhya Pradesh in para-IV of online proposal and also subject to approval of the Hon'ble Supreme Court as per directions in aforesaid case.*
- 4) *The Chief Wildlife Warden also opined in Form-4 of Wildlife application that any decision in this matter will have to be taken after approval of the Hon'ble Supreme Court of India.*
- 5) *Scientist-D (WL), MoEF&CC vide F.No: 6-12/2021 WL dated 11.03.2021 has also communicated the decision of standing committee of NBWL to the Principal Secretary, Forest Deptt., GoMP, Bhopal.*
- 6) *NMDC has taken necessary action for compliance of conditions imposed by CWLW & NTCA & EAC, MoEF&CC and filed I.A in Hon'ble Supreme Court on 26.03.2021 to allow the present application of the applicant to continue its mining operations in the Diamond Mining Project at Village Majhgawan in District Panna, M.P.*
- 7) *NMDC has obtained all statutory clearances such as validity of mining lease, approved mining plan, forest clearance for forest land in supplementary mining lease, consent to operate.*
- 8) *However, the approval under Wildlife (Protection) Act, 1972 for continuation of operations beyond 31.12.2020 is subject to approval of Hon'ble Supreme Court as per conditions imposed by CWLW and NTCA.*

Since the I.A has filed on 26.03.2021 and the case is yet to be listed for hearing in Hon'ble Supreme Court and site visit by sub-committee to Diamond Mining Project is still pending, the proposal may kindly be exempted from 30th EAC meeting scheduled on 06.04.2021.

5. In view of the above, the Committee **deferred** the proposal and was of the view that proposal may be considered only after the adjudication of Hon'ble Supreme Court, obtaining other statutory clearances by the Project Proponent and site visit by sub-Committee.

1.4 Proposal for Revalidation of EC under Ministry's Notification vide S.O. (E) 1530, dated 06.04.2018 of Majhgawan Diamond Mine, Panna of M/s NMDC Ltd. for 0.72 LTPA of over burden removal and Processing of Kimberley ore (8 MTPA) for production of 1.00 lakh carats of Diamonds with the mine lease area of 162.631 Ha, located at village Majhgawan, Tehsil & District Panna, Madhya Pradesh – [Proposal no: IA/MP/MIN/80115/2018; File No. IA-J-11015/121/2018-IA-II(M)] - Reconsideration of ToR

The proposal of M/s NMDC Ltd. for Supplementary Mining Lease area of 162.631 Ha with 0.72 LTPA over burden removal and processing of Kimberlite ore of 8.0 LTPA for production of 1.00 lakh carats of Diamond per annum. The mine is located at Village Majhgawan, District Panna, and State Madhya Pradesh. The supplementary mine lease consists of 162.631 Ha lease area, out of which 74.018 Ha is Forest land and remaining 88.613 Ha is Non-Forest Land. The mine lease area is covered under SOI Toposheet No: 63D/2 and bounded by Latitude: 24°38'13.88" to 24°39'15" N Longitude: 80°00'40" to 80°02'43.2" E (Based on WGS-84 Datum).

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category "A," as the Mining lease area is more than 100 Ha. Project Proponent applied under Schedule 1(a) Mining of Minerals & 2(b) Mineral beneficiation.

3. The Project Proponent submitted that the Environmental Clearance granted by the Ministry vide letter no J-11015/323/2005-IA.II (M) dated 13.01.2006 for Panna Diamond Mine (40, 000 carats to 1, 00, 000 carats) in the Mine Lease Area of 275.963 ha to M/s National Mineral Development Corp. Ltd under the EIA Notification 1994. PP submitted that the previous Environmental clearance was issued for Diamond Mining Project consisting of 2 mining leases i.e. Main Mining Lease (113.332 Ha) and Supplementary Mining Lease (162.631 Ha). PP has submitted that Ministry is issuing Environmental clearance lease wise instead of integrated E.C. comprising of two or more leases. Accordingly, the Project Proponent applied online for grant of Terns of Reference vide proposal no. IA/MP/MIN/80115/2018 dated 26.09.2018 as per Ministry's Notification vide S.O. (E) 1530, dated 06.04.2018 and the proposal was placed in EAC meeting held on 23-24 October, 2018, 24-25 September 2019, April, 20-21, 2020 and in EAC meeting held on 3-5 February 2021 wherein the Committee deferred the proposal and is of the view that proposal may only be consider after all the statutory clearances obtained by the Project Proponent and site visit by sub Committee. Then, PP vide Letter NMDC/DMP/EC/2021/813 dated 18.03.2021 requested to kindly arrange the visit of the sub-committee to ascertain the ground reality.

4. The Project Proponent vide Lr No NMDC/DMP/EC/2021 dated 30.03.2021 sought exemption from the appraisal of proposal in EAC meeting and submitted the following: -

- 1) *The standing committee of NBWL, MoEF&CC was held on 18.02.2021 wherein the proposal of Panna DMP of NMDC was discussed at agenda no: 61.5.10 and minutes of meeting were circulated by Scientist D (WL), MoEF&CC vide F.No: 6-16/2021 WL dated 08.03.2021.*
- 2) *As per minutes, the standing committee decided to recommend the proposal subject to the conditions imposed by the Chief Wildlife Warden and the NTCA.*
- 3) *On perusal of the minutes of meeting circulated on 08.03.2021, it is observed that NTCA vide OM No:7-3/2021-NTCA dated 15.02.2021 has conveyed the recommendations of NTCA under section 380(1)(g) of the Wildlife (Protection) Act, 1972 for extension of Diamond mining lease of 275.963 Ha area under Gangua Wildlife Sanctuary adjoining Panna Tiger Reserve subject to fulfillment of conditions laid down by Chief Wildlife Warden, Madhya Pradesh in para-IV of online proposal and also subject to approval of the Hon'ble Supreme Court as per directions in aforesaid case.*
- 4) *The Chief Wildlife Warden also opined in Form-4 of Wildlife application that any decision in this matter will have to be taken after approval of the Hon'ble Supreme Court of India.*
- 5) *Scientist-D (WL), MoEF&CC vide F.No: 6-12/2021 WL dated 11.03.2021 has also communicated the decision of standing committee of NBWL to the Principal Secretary, Forest Deptt., GoMP, Bhopal.*
- 6) *NMDC has taken necessary action for compliance of conditions imposed by CWLW & NTCA & EAC, MoEF&CC and filed I.A in Hon'ble Supreme Court on 26.03.2021 to allow the present application of the applicant to continue its mining operations in the Diamond Mining Project at Village Majhgawan in District Panna, M.P.*
- 7) *NMDC has obtained all statutory clearances such as validity of mining lease, approved mining plan, forest clearance for forest land in supplementary mining lease, consent to operate.*
- 8) *However, the approval under Wildlife (Protection) Act, 1972 for continuation of operations beyond 31.12.2020 is subject to approval of Hon'ble Supreme Court as per conditions imposed by CWLW and NTCA.*

Since the I.A has filed on 26.03.2021 and the case is yet to be listed for hearing in Hon'ble Supreme Court and site visit by sub-committee to Diamond Mining Project is still

pending, the proposal may kindly be exempted from 30th EAC meeting scheduled on 06.04.2021.

5. In view of the above, the Committee **deferred** the proposal and was of the view that proposal may be considered only after the adjudication of Hon'ble Supreme Court, obtaining other statutory clearances by the Project Proponent and site visit by sub-Committee.

1.5 Proposal for Revalidation of EC under Ministry's Notification vide S.O. (E) 1530, dated 06.04.2018 for Joda West Iron and Manganese Mine of M/s Tata Steel Limited with production capacity of 1.80 LTPA of Manganese ore, located at village(s)-Joda, Bichakundi, Kamarjoda, Banspani and Bhuyan Roida Tehsil Barbil, Sub-division-Champua, District Keonjhar, Odisha (MLA: 1437.719 ha) [Proposal no: IA/OR/MIN/79094/2018; File No. J-11015/115/2018-IA.II(M)] - Reconsideration of ToR

The proposal of M/s Tata Steel Limited is for Joda West Iron and Manganese Mine (MLA: 1437.719 ha) with production capacity of 1.80 LTPA of Manganese ore (ROM production of 2.1 LTPA). located at village(s)-Joda, Bichakundi, Kamarjoda, Banspani and Bhuyan Roida Tehsil Barbil, Sub-division-Champua, District Keonjhar, Odisha. The mine lease area is covered under SOI Toposheet No: 73 G/5 and 73 F/8 and bounded by Latitude: 21°58'00" N to 22°02'00" N and Longitude 85°23'00" E to 85°26'00" E.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category "A," as the Mining lease area is more than 100 Ha. Project Proponent applied under Schedule 1(a) Mining of Minerals.

3. The Project Proponent submitted that earlier Environmental Clearance was granted under the EIA Notification 1994, vide Ministry's letter No. J-11015/86/2004-IA. II (M) dated 13.09.2005 for the expansion of Joda west manganese mines from 0.45 LTPA to 1.80 LTPA of saleable Manganese Ore. Further, the Ministry, vide letter J-11015/86/2004-IA. II(M) dated 07.02.2016 has issued the corrigendum w.r.t. name of mineral. The Project Proponent earlier applied for ToR vide proposal no: IA/OR/MIN/79094/2018 dated 16.09.2018 as per the Ministry's notification S.O 1530 (E) dated 06.04.2018 and submitted the Form-I and Prefeasibility report and the proposal was considered in the 37th EAC meeting held during October 23-24, 2018 wherein the Committee was of the view that this is a case of violation of the EIA Notification as PP has mined out the iron ore without the EC during 2003-04 (29,050 TPA), 2004-05 (88,370 TPA), 2005-06 (29,954 TPA) & 2006-07 (3,705 TPA) and the same may dealt by violation notification S.O. 804(E) dated 14.03.2017. The Committee deferred the proposal. The EAC suggested that the Ministry may examine the issues. In this regard,

Ministry vide its letter no. J-11015/115/2018-IA.II (M) dated 14.12.2018 requested the Dept. of Environment, Govt. of Odisha to initiate credible action against the PP under sec. 19 of the Environment (Protection) Act, 1986. Then the proposal was delisted on 25.03.2019 and then the Project Proponent relisted the proposal on 15.03.2021 from the PARIVESH portal and informed the Ministry vide MGM/P&E/148/2021 vide letter dated 12.03.2021 that based on the direction from MoEF&CC letter dated 14.12.2018, a case bearing no 2CC 127/2013 of 2013 dated 05.08.2013 was initiated in the court of JMFC Barbil, Dist Keonjhar Odisha and communicated by Department of Forest & Environment, Govt of Odisha to MoEF&CC, New Delhi vide letter no ENV-I-24/2018/05/F&E, dt 01.01.2019. The proposal was considered in the 30th EAC meeting held during 6th - 8th April, 2021.

4. Based on the presentation made by the Project Proponent and discussion held in the 30th EAC meeting during 6th - 8th April, 2021; the Committee noted that this is a violation case of the EIA Notification 2006 and subsequent amendments as PP has mined out the iron ore without the EC during 2003-04 (29,050 TPA), 2004-05 (88,370 TPA), 2005-06 (29,954 TPA) & 2006- 07 (3,705 TPA) and the proposal was considered in the 37th EAC meeting held during October 23-24, 2018 and the credible action has been already taken. PP again relisted the same proposal which was earlier submitted under Ministry Notification S.O 1530 (E) dated 06.04.2018. The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed:

- i. Send the matter to the Sector EAC for consideration of the case on merit.
- ii. Take action against the alleged violation as per law.
- iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit.
- iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed.

5. In view of the above, Committee was of the view that PP should apply a fresh application with facts and figures mentioning the case of violation as 'Yes' in the Form 1 for consideration of Terms of Reference (ToR) for violation proposal and the same was agreed by the PP. The Committee, therefore **returned the proposal in present form.**

1.6 Proposal for Revalidation of EC under Ministry's Notification vide S.O. (E) 1530, dated 06.04.2018 for Bamberi Iron and Manganese Mine (MLA: 464.00 ha) of M/s Tata Steel Limited with production capacity of 0.832 LTPA of Manganese Ore, located at Bamebari, Boneikela and Joribar villages at Barbil Tehsil in Champua

subdivision of Keonjhar District, Odisha - [Proposal no: IA/OR/MIN/79111/2018; File No. IA-J-11015/116/2018-IA-II(M)] - Reconsideration of ToR

The proposal of M/s Tata Steel Limited is for Bamberi Iron and Manganese Mine (MLA: 464.00 ha) with production capacity of 0.832 LTPA of Manganese Ore, located at Bamebari, Boneikela and Joribar villages at Barbil Tehsil in Champua subdivision of Keonjhar District, Odisha. The mine lease area is covered under SOI Toposheet No: 73 G/5 and 73 F/8. The lease area consists of three discontinuous blocks, viz. Bamebari, Joribar & Boneikela. The Bamebari block having an area of 140 Ha of Bamebari lease is bounded within the extent of Latitude from 21°53'38.89" N to 21°54'44.02" N & Longitude from 85°25'23.37" E to 85°25'52.06" E. The Joribar block of Bamebari Lease having an area of 91 Ha is bounded within the extent of Latitude from 21°55'41.52" E to 21°56'25.84" E & Longitude from 85°24'10.74" E to 85°25'06.64" E. The Bonaikela block having an area of 233 Ha is bounded within the extent of Latitude from 22°02'00.42" E to 22°03'21.47" E & Longitude from 85°24'36.41" E to 85°25'47.40" E.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category "A", as the Mining lease area is more than 100 Ha. Project Proponent applied under Schedule 1(a) Mining of Minerals.

3. The project proponent reported that they had obtained Environmental Clearance from the Ministry vide MoEF letter no. J-11015/85/2003-IA.II(M) dt 17.11.2005 for production of 0.832 LTPA of Manganese Ore as per EIA notification of 1994. The Project Proponent earlier applied for ToR vide proposal no: IA/OR/MIN/79111/2018 dated 16.09.2018 as per the Ministry's notification S.O 1530 (E) dated 06.04.2018 and submitted the Form-I and Prefeasibility report and the proposal was considered in the 37th EAC meeting held during October 23-24, 2018 wherein *the Committee was of the view that this is a violation case of the EIA Notification 2006 as PP has enhanced the production of manganese ore during 2006-07 (83,733 TPA) against the EC capacity of 82,000 TPA. PP has mined out the Mn Ore during 2007-08 to 2017-18 well within the EC capacity. The Committee also observed that the PP has mined out the Iron Ore without the EC during 2003-04 (20978 TPA), 2004-05 (6766 TPA), 2005-06 & (1560 TPA). PP has never taken the EC for iron ore mining. Thus, Committee is of the view that this is a case of violation of the EIA Notification, 2006 as PP has enhanced the production of manganese ore during 2006-07 (83,733 TPA) against the EC capacity of 82,000 TPA and the same may dealt by violation notification S.O. 804(E) dated 14.03.2017. The Committee deferred the proposal. The EAC suggested that the Ministry may examine the issues.* In this regard, Ministry vide it's letter no. J-11015/116/2018-IA.II (M) dated 14.12.2018 requested the Dept. of Environment, Govt. of Odisha to initiate credible action against the PP under sec. 19 of the Environment (Protection) Act, 1986. Then the proposal was delisted on 25.03.2019 and then the Project Proponent relisted the proposal on 15.03.2021 from the PARIVESH portal and

informed the Ministry vide MGM/P&E/149/2021 vide letter dated 12.03.2021 that based on the direction from MoEF&CC letter dated 14.12.2018, a case bearing no 2CC 128/2013 of 2013 dated 05.08.2013 was initiated in the court of JMFC Barbil, Dist Keonjhar Odisha and communicated by Department of Forest & Environment, Govt of Odisha to MoEF&CC, New Delhi vide letter no ENV-I-24/2018/05/F&E, dt 01.01.2019. The proposal was considered in the 30th EAC meeting held during 6th - 8th April, 2021.

4. Based on the presentation made by the Project Proponent and discussion held in the 30th EAC meeting during 6th - 8th April, 2021; the Committee noted that this is a violation case of the EIA Notification 2006 and subsequent amendments as PP has enhanced the production of manganese ore during 2006-07 (83,733 TPA) against the EC capacity of 82,000 TPA. PP has mined out the Iron Ore without the EC during 2003-04 (20978 TPA), 2004-05 (6766 TPA), 2005-06 & (1560 TPA) and the proposal was considered in the 37th EAC meeting held during October 23-24, 2018 and the credible action has been already taken. PP again relisted the same proposal which was earlier submitted under Ministry Notification S.O 1530 (E) dated 06.04.2018. The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed:

- i. Send the matter to the Sector EAC for consideration of the case on merit.
- ii. Take action against the alleged violation as per law.
- iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit.
- iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed.

5. In view of the above, Committee was of the view that PP should apply a fresh application with facts and figures mentioning the case of violation as 'Yes' in the Form 1 for consideration of Terms of Reference (ToR) for violation proposal and the same was agreed by the PP. The Committee therefore **returned the proposal in present form.**

DAY 2: 07.04.2021

2.1: Proposal for Environmental Clearance under clause-7(ii) of notification 2006 for enhancement in the production capacity of SMS grade limestone from 1.25 MTPA to 1.50 MTPA along with ROM handling of limestone from 2.799 MTPA to 3.30 MTPA at operating Sanu-I Limestone Mine (ML No. -27/1996) having ML area of 1000 ha located at Village Joga, Tehsil & District- Jaisalmer, Rajasthan - [Proposal no: IA/RJ/MIN/100413/2019; File No. J-11015/42/2006-IA-II (M)] - Reconsideration of EC

The proposal of M/s. Rajasthan State Mines and Minerals Limited is for grant of Environmental Clearance under para 7(ii) of EIA Notification 2006 for enhancement in the production capacity of SMS grade limestone from 1.25 MTPA to 1.50 MTPA (20% increase) along with ROM handling of limestone from 2.799 MTPA to 3.30 MTPA (17.99% increase) at operating Sanu-I Limestone Mine (ML No. -27/1996) having ML area of 1000 Ha located at village Joga, Tehsil & District Jaisalmer (Rajasthan). The lease area forms a part of Survey of India Topo-sheet no. 40 I/11. The lease area is bound within coordinates of 27°16'43.00" N to 27°19'40.00" N latitudes and 70°33'52.00" E to 70°35'00.00" E longitudes. The mine lease area falls in seismic zone III.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category "A", Project or Activity 1(a) as the Mining lease area is more than 100 Ha.

3. The project proponent applied online on 27.03.2019 under para 7(ii) of EIA Notification 2006. The Committee observed that the EC was granted on 03.08.2007 under para 12 of EIA Notification 2006. The proposal was considered in EAC meeting held during 29-30 May, 2019 wherein the Committee deferred the proposal due to few shortcomings. The proposal was reconsidered in 27th EAC meeting held during 3-5th Feb., 2021 wherein the Committee deferred the proposal. PP replied for the same which is as follows:

ADS point 1: The EMP needs to be revised based on the impact scenario generated separately for -30 ROM, PM2.5 and PM10. The model for calculating the air quality impact should be calibrated using the current operating data and then deploy for calculating the revised scenario.

Reply: For use of the old stored sub grade limestone in mined out pit, additional material handling is proposed by deploying of loader/excavator with dumpers/tippers. The maximum height of this dump is only 3.5 meter from pit bottom and stored over the floor of the mined-out pit. It is stored in form of 5mm to 35 mm size gitty. Thus, dust generation shall be bare minimum. Since the material stored in pit is in loose form and it can easily be loaded into tippers by simple process of digging and loading by loaders/excavators. It does not require any drilling, blasting. Depending on the proposed annual handling of the sub grade mineral from dump, which is in addition to the prevailing mining operations, the air modelling has been computed under present scenario with respect to proposed revised scenario to assess the impact in surrounding atmosphere. As no other pollution is envisaged except degradation in AAQ during handling of mineral, the monitoring is carried out for the purpose. Detailed information has been submitted as an Annexure.

ADS point 2: Since the proposal is to access the dump -30 ROM by using excavator, this additional scenario to be generated and integrated with mining operation. The PP should also mention and analyses the generated as well as peak production if it exceeds the normative levels.

Reply: The additional operations in the mines for handling of material from old Dump for use of sub grade limestone has marginal impact in ambient air quality, as can be seen in the air modelling report. However, total cumulative value assessed after operations in peak hours, the PM2.5 and PM10 values are arrived well within the normative level. However, PP will carry out regular water sprinkling by water tanker fitted with sprinkling arrangement. over the haul road to be used for material handling of proposed sub grade mineral from Dump by tippers. Detailed information has been submitted as an Annexure.

ADS point 3: The EMP cost needs to be revised particularly for dust control including the Drinking water system at Mines, Electrification through solar power, cost of plantation, Manpower used for the implementation of EMP, Cost of water tanker having mist generator to be used for dust suppression. Capital and recurring expenditure to be separately mentioned.

Reply: As suggested capital and recurring expenditure for dust control, improving drinking water facility, electrification through solar, plantation activities, dust suppression system at mines etc have been allocated and submitted with the ADS reply letter.

ADS point 4: Committee on deliberation decided that PP needs to spend on issues raised during the public consultation in the area of health and sanitation, drinking, water conservation, and other details. Activity-wise time-bound action plan on the issues raised and commitment made during public hearing to be submitted as part of the final EMP Report in compliance of the Ministry's OM F.No.22-65/2017-IA.III dated 30th September, 2020.

Reply submitted by PP: Public hearing under the project was carried out in year 2006 by nominee of District Collector under supervision of RO, RPCB, Jodhpur at Mines. All issues during course of mining operations are being implemented and complied as per EC conditions. The latest certified compliance report is already submitted with MOEF. We are regularly contributing for nearby villagers in health, education, infrastructure, sanitisation, drinking water facilities etc under annual CSR activities through local panchayat under supervision of BDO and details are submitted.

S No.	Expenditure incurred in 2019 on CSR	Rs. In lakh
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1	Construction of Toilet at school (Govt)	10
2	Distribution of books & study materials	5
3	Installations of RO plant	1
4	Kahdin work for water reservoir	8
5	Skill Development	0.50
6	Mobile Medical facilities	0.50
	Total	25

4. The project proponent submitted that the mining lease for Steel Grade Limestone is valid for 50 years w.e.f. 01.04.1997 vide government order no. P.4 (270) Mines/Gr-2/83 dated 27.01.2010 by Mines Department, Government of Rajasthan. Considering to the future upcoming market demand; the proposed rate of excavation of ROM @ 33.00 Lac Te/annum (in-situ) has been consider to get optimum 15.00 lac Tonne/year production of SMS grade limestone (with recovery 46-47%) & based on this rated capacity, the anticipated life of mine w.e.f. April' 2018 works out to around to around 6.1 years or up to year 2024-25 taking into consideration of the available mineral reserves. However, the life of mines may extend till the end of lease period, if mine operated at less than the proposed rate of annual production of SMS grade limestone i.e. below 15.00 lac MT/year. The mineral at rated capacity is estimated to exhaust before the expiry of the lease period i.e. before 31.03.2047. As per approved mine plan, RSMML has put to use 510.90 ha. Land for mining, Out of which 237.60 ha. land has been backfilled & levelled by fines and total 141.92 hectares area (inclusive over reclaimed area) has been covered under green belt till March 2018. However, till the end of mine life the total area intend to mine within the ultimate pit boundary shall be 828.625 ha.

5. The project proponent submitted that mining plan was approved by Indian Bureau of Mines, Ajmer on dated 14.06.1991 for the period 1991-92 to 1995-96. Review of mining plan with PMCP was approved by IBM vide no. 584(4)(3)(1667)/2016 -RCOM-AJM dated 16.12.2016 for the period 2017-2022. Modified mining plan with PMCP was approved by IBM vide no. F. 584(4)(3)(1763)/2018-RCOM-AJM/1684 dated 5/14.12.2018 for the period 2018-2022.

6. The project proponent submitted that open cast single bench mechanized method of mining will be adopted. The proposal for EC under clause-7(ii) of EIA notification, 2006.

7. The project proponent submitted that nearest village is Joga village which is approximately 3 km from the mine site, nearest school is in Ramgarh which is approx. 10 km and NH-15 is approx. 60 km from the mine site.

8. The project proponent submitted that total water requirement for the project is 55 KLD, which will be sourced from canal supply and will be transported to the mine site by water tankers. The estimated industrial water & domestic water requirement for the project is 35 KLD & 20 KLD respectively. Permission for drawl of surface water has been granted by competent authority vide letter no. F.6(6)IGNP/2005 dated 06.02.2007 for 120 KHL of water.

9. The project proponent submitted that as on date 135 ha area has been covered under greenbelt/plantation. Total area of 180 ha has been proposed for the plantation.

10. The project proponent submitted that no forest land is present within the mine site. No National Park, Wild Life Sanctuaries, Biosphere Reserves, Tiger Reserves, Wildlife Corridors, falls within the study area. No Schedule-I species of flora and fauna available within core & buffer zone of mine.

11. The project proponent submitted that AAQM & other monitoring are being done time to time as per EC conditions. All parameters have been found within the limit. PP also submitted that public hearing conducted by RPCB for grant of EC dated 7th July, 2005 at Jaisalmer under SDO, Jaisalmer (Representative of Collector) & RO, RPCB, Jodhpur.

12. The project proponent submitted that total project Cost is Rs. 2 crore under expansion. EMP budget is given as:

S. No.	Components	Capital Cost (Rs in Lakhs)	Recurring Cost (Rs in Lakhs /annum)	Remark
1	Air & Water Pollution Control	0.50	21.50	AAQM & water monitoring six monthly, Water sprinkling of haul/access road
2	Noise Pollution Control/ Afforestation/Plantation	2.00	6.50	PPE Kit, wire fencing around plantation, Watering to plants
3	OHS/ Surveillances	2.00	2.00	Medical examinations of workers, Surveillances camera system
4	Rainwater Harvesting	2.00	0.50	Wrt Office premises at Mines
5	Drip Irrigation	5.00	1.00	Installation & operation
6	CER	2.50	2.00	Drinking water system at

				Mines for transport operators, mine workers etc, Electrification trough solar power
	Total	14.00	32.50	

13. The project proponent submitted that total all safety measures like slope stability and adequate pumping has been provided. Besides safety measures, the mine is well equipped to deal with eventuality as enumerated in MMR 1961 and related DGMS circular. PPE kits like safety shoes, ear muffle, gloves etc. have been provided to all mining workers.

14. The project proponent submitted that total no litigation is pending against the instant proposal.

15. The project proponent submitted that the mine is in operation since 1997-98. Past production details are as follows:

Sl. No	Year	Production		
		ROM	30-80 mm size (Steel grade Lst)	-30 mm size
1.	1997-98	1452000.00	5,74,674.16	8,77,325.84
2.	1998-99	1282000.00	5,11,977.52	7,70,022.48
3.	1999-00	1121000.00	4,48,558.70	6,72,441.30
4.	2000-01	1473000.00	5,89,564.25	8,83,435.75
5.	2001-02	1492000.00	5,97,430.35	8,94,569.65
6.	2002-03	1269000.00	5,80,514.93	6,88,485.07
7.	2003-04	1863000.00	5,92,468.00	12,70,532.00
8.	2004-05	1797242.00	5,98,637.00	11,98,605.00
9.	2005-06	1549313.00	5,89,994.00	9,59,319.00
10.	2006-07	1798470.00	8,68,352.87	9,30,117.13
11.	2007-08	1625515.00	7,78,920.76	8,46,594.24
12.	2008-09	1979170.00	8,81,299.61	10,97,870.39
13.	2009-10	1754319.00	8,13,005.48	9,41,313.52

14.	2010-11	1669513.00	7,46,978.04	9,22,534.96
15.	2011-12	2636900.00	12,10,126.40	14,26,773.60
16.	2012-13	2027344.27	9,26,496.33	11,00,847.94
17.	2013-14	1881815.00	8,68,927.82	10,12,887.18
18.	2014-15	2137593.00	9,72,054.37	11,65,538.63
19.	2015-16	1936097.00	9,03,958.03	10,32,138.97
20.	2016-17	2084683.00	9,69,311.10	11,15,371.90
21.	2017-18	2657478.62	12,30,412.60	14,27,066.02
22.	2018-19	2725921.00	12,49,981.20	14,75,939.80
23.	2019-20	2586498.48	11,89,789.30	13,96,709.18
24.	2020-21	1760000.00	7,91,000	9,70,000.00

16. The project proponent submitted the affidavit stating that the company will comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. The affidavit also mentioned the environmental clearance will not be operational till such time that the company complies with all statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors as applicable.

17. The project proponent submitted that existing project cost is Rs. 10 Crores and proposed project cost under expansion is Rs. 2 Crores. Therefore, total project cost after expansion will be Rs. 12 Crores. Proposed employment is estimated to be 93 persons.

18. The proposal was considered in the 30th EAC meeting held during 6-8th April, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **Recommended** the proposal for grant of environmental clearance under clause-7(ii) of notification 2006 for enhancement in the production capacity of SMS grade limestone from 1.25 MTPA to 1.50 MTPA along with ROM handling of limestone from 2.799 MTPA to 3.30 MTPA at operating Sanu-I Limestone Mine (ML No. -27/1996) having ML area of 1000 ha located at Village Joga, Tehsil & District- Jaisalmer, Rajasthan along with the following specific conditions:

- i. The Project Proponent shall undertake the plantation suitable in sandy soil especially along the boundary of the roads and ensure its survival by at least 90% of survival rate. PP shall provide tree guard to maintain the early stages of plant growth.
- ii. The Project Proponent shall implement the practice of drip irrigation for plantation.
- iii. PP shall take necessary steps to avoid the fugitive dust emission due to mining activities and vehicle movement. The roads shall be regularly cleaned and maintained in proper conditions by the project authorities.

2.2 Proposal for Terms of Reference for Jalwa Quartz-Quartzite (Silica Stone) Mine of M/s Idio Construction and Industries India Ltd (ML 19.8ha; 502968 TPA), located at plot/survey/khasra no- 2604, 2625, 2626, Village- Bishanpur, Kajra, Dist. Lakhisarai, Bihar - [Proposal no: IA/BR/MIN/188268/2020; File No. J-11015/86/2020-IA-II(M)] - Terms of Reference (ToR)

The proposal of M/s Idio Construction and Industries India Ltd is for grant of Terms of Reference for Jalwa Quartz-Quartzite (Silica Stone) Mine (ML 19.8ha; 502968 TPA) located at plot/survey/khasra no- 2604, 2625, 2626, Village- Bishanpur, Kajra, Dist. Lakhisarai, Bihar. The mine lease area is covered under SOI Toposheet No: 72 K/8, 72 K/4 and bounded by Latitude 25°12'11.8"N to 25°12'23.8"N and Longitude 86°16'33.3"E to 86°17'07.9"E and falls in Seismic Zone IV.

2. As per EIA Notification dated 14th Sept, 2006 and its subsequent amendments, the project falls under Project Activity 1 (a) "Mining of Minerals" and Category "A" as it is located at a distance of 3 km from Bhimbandh Wildlife Sanctuary.

3. PP earlier applied for grant of ToR vide proposal No. IA/BR/MIN/27539/2015 on 08/05/2015 wherein PP informed that the National Green Tribunal, Principal Bench, New Delhi vide order dated 3rd June 2015, disposed of the application No. 42 of 2015 (EZ) (M.A. No. 131/2015 (EZ) submitted by IDIO with a direction to MoEFCC to consider the application for Environmental Clearance filed by the IDIO and pass appropriate order in accordance with law. The Proposal was considered in the 35th EAC meeting held between June 24-26, 2015 wherein the Committee observed that "this is a violation case as mine operated from 2001 to 2008 and 2011 to 2015 without obtaining prior environmental Clearance. The MoEF&CC may take actions on violations as per OM dated 12.12.2012 and 27.06.2013. Based on the information furnished and presentation made by the project proponent and discussions held, the Committee prescribed the TORs." PP again applied vide Proposal no: IA/BR/MIN/177645/2020 dated 06.10.2020 for prescribing Term of Reference (ToR) and submitted Form-1 and

Prefeasibility report. PP replied for EDS on 05.12.2020. The proposal was considered in 25th EAC meeting held during 22nd -24th December, 2020 wherein the based on the documents submitted and presentation made by the project proponent and the Consultant, the Committee noted that the application shall be treated as fresh de novo application as per the Hon'ble NGT order and the Committee deferred the proposal for want of the additional information. PP vide Lr. No. ToR/IDIO/21/Mining/EDS dated 19.01.2021 requested to treat the proposal no. IA/BR/MIN/177645/2020 submitted in the name of Renu Singh and signed by other authorized signatory as null and void as Renu Singh is not holding any Director status in IDIO Construction & Industries (India) Ltd. and the proposal was withdrawn thereafter a new proposal was submitted vide proposal no. IA/BR/MIN/188268/2020 dated 18.03.2021 and the proposal was placed in the 30th EAC meeting held during 6th - 8th April, 2021.

4. During the EAC meeting, PP informed the Committee that they are not aware of the earlier appraisal of the proposal in the EAC meeting. Committee also noted that PP has not submitted the authorization in proper format and copy of resolution of board of the Company. PFR submitted by PP is in the name of Renu Singh which was submitted earlier and prepared as per the 2006-07 and 2011-12 scenario. PP also informed that the one of the member of the board of the company has demised few months ago. Committee therefore **returned the proposal in present form** and asked PP to submit the correct proposal in the name of legal person who has been accorded the LOI and other valid documents with complete details of the proposal.

2.3: Proposal under the provision of Notification S.O. 1530 (E) dated 6th April, 2018 for Environmental Clearance of Anandavadi Limestone Mines with expansion in production capacity from 0.26 MTPA to 1.5 MTPA in the mine lease area 110.685 ha located at Village Anandavadi, District Ariyalur, Tamil Nadu by M/s Tamil Nadu Cements Corporation Limited - [Proposal no: IA/TN/MIN/183551/2020; File No. J-11015/173/2018-IA-II(M)] - EC

The Proposal of M/s Tamil Nadu Cements Corporation Limited is under the provision of Notification S.O. 1530 (E) dated 6th April, 2018 for Environmental Clearance of Anandavadi Limestone Mines with production capacity of 0.26 MTPA to 1.5 MTPA from the mine lease area 110.685 ha located at village Anandavadi, District Ariyalur, Tamil Nadu. The mining lease area is a part of the Survey of India Topo-sheet No. 58 M/4. The site falls between latitude 11°18'667" to 11°19'083" N to longitude 79°18'67" To 79°19'889" E and falls in seismic zone-II.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category "A", Project or Activity 1(a) as the mining lease area is more than 100 ha.

3. The ToR was granted by MoEF&CC vide letter no. J-11015/173/2018-IA.II(M) on 18.09.2020. The PP submitted the application for EC on 17th November, 2020. The proposal was considered in 24th EAC meeting held on 11.12.2020 wherein the Committee deferred the proposal due to want of following information:

ADS point 1: The EMP is very generic. It has to be totally revised by indicating the type of impacts, its quantification and the capital investment suggested action-wise in EMP, cost of monitoring till the life of the mine including the plantation.

Reply: Revised EMP has been submitted by PP along with the ADS reply.

ADS point 2: Total excavation has to be properly addressed in the revised submission. Dump stability measures also has to be properly addressed.

Reply: Details of total excavation (Mineral, IB/OB/Topsoil) have been revised as per approved mining plan (1.5 MTPA ROM Limestone and other excavations like 1.14 MTPA of OB/IB/SB, 0.36 MTPA of Top soil quantities totaling to 3 MTPA.). Detailed information has been provided with the ADS reply letter.

Dump Stability Measures:

- The maximum dump height will not exceed 30 Meters, with 3 benches with 10 Meter height each; with terrace floor width not less than 15 Meters.
- At present the height reached is 20 meters with 2 benches and the overall slope is maintained at less than 28 degrees and each bench having slope as per angle of repose.
- Dump bench slope are levelled and consolidated with the help of dozer apart from consolidating top of active dumps with dozers after completion of unloading by tippers.
- Periodical sprinkling on the floor after consolidation is done regularly.
- A spotter (Mate) is kept to supervise the safe unloading operation.
- To avoid erosion / collapse during rainy season, an inverted slope is maintained on all bench floor to enable rain water to drain towards approach end and also below toe of each dump; which in turn is drained again through garland drain and connect to network of garland drain leading to settling pond. Toe wall are provided with safety distance between garland drain and toe of dump.
- Plantation of native species is carried out all along the slope of the inactive dumps and sides of haul road, approach roads of active dumps; with the advise /involvement of district forest office as well as per approved mine plan cum progressive mine closure plan.

- To maintain stability, periodical consolidation of slopes by using mining machinery as the dump progresses and also plantation on ramps, approach and on non-active sides.
- Garland drainage has dimension of 1 metre height, 3 metre width and 600 metre length; with a safety distance of 3 metre from dump toe wall. The Garland drains are connected with settling ponds for desilting prior to final discharge to nearby seasonal nallah.
- The damaged part of dump has been corrected and photographs have been submitted.
- Reclamation of waste dumpsites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.

ADS point 3: The protection measures all along the road are not properly documented for the transport route of 15 km from mine to the plant. Plantation along the road has to be included. If the road is passing through the villages, indicate the protection measures to be taken for the same.

Reply:

- All Limestone carrying vehicles used in Anandavadi Mines have inbuilt speed governor to maintain speed within the limit and all loaded vehicles are covered with tarpaulin to prevent spillage of materials along the transport roads. (Refer Images In section B below)
- Regular Water Sprinkling is done on approach road / main haulage road leading to tar road from mine area and twice a day all along the transporting road (15km) to suppress the dust.
- Placement of sign board for Traffic Rules, Traffic Symbols, Speed breakers, Barricades• at vulnerable points wherever the truck is passing by a village (Kallankurichi, & kadugur) all along the transport route from mines to factory.
- The roads passing through outskirts of villages have proper concreted roads and black topped in rest of roads.
- TANCEM regularly does maintenance works like clearing of bushes, repair of pot holes, regular water sprinkling all along the transit route (15kms) between mines and plant; their-by ensuring safe roads for materials transport.
- TANCEM is maintaining plantation on both sides of road in village areas for dust control, and plantation of Additional 3000 Nos of native species on both sides of the road all along the 15 kms has been initiated.(Refer Images in section B).
- Other safety arrangements for safe transportation of minerals from mines to plant include;

- A permanent weigh bridge is available in the mines which help to ensure minimum carrying capacity of the road. Thereby affordable load is maintained while transporting limestone in the public road. Maintaining adequate gap at least 200 m between each vehicle to prevent the adverse impact of sound and dust along with less chances of accidents.
- Adequate supervision made to monitor the gap of transport vehicles.

ADS point 4: The project proponent needs to submit the revised conservation plan duly approved by the PCCF.

Reply: PP submitted the letter to PCCF, Chennai vide letter no. TANCEM/MINES/CO/ASLM/G.O. 624/FOREST/2021 dated 17.02.2021 requesting to authenticate the wildlife conservation plan. Approved revised conservation plan has not been submitted by PP yet.

ADS point 5: The project proponent needs to submit the safeguard measures for the temple observed in the mine lease area.

Reply: The required safeguard measures for the temple observed in the mine lease area will be as follows:

- The concrete wall around the temple has been erected with the dimension of 55 feet length X 55 feet width at 6 feet height. The road is given for public to enter into temple. The cost of expenditure incurred was Rs.1 lakh.
- Security guard is already engaged in order to ensure the safety of the temple.
- No mining operation done up to 45 m from the temple as per Regulation 109 of the Metalliferous Mines Regulation 1961.
- No drilling and blasting is carried out, only rock breaker are used for breaking the limestone. Hence, no impact due to fly rock, noise and vibration.

5. The project proponent submitted that the mining lease over an area of 110.685 ha has been granted for a period of 30 years and approved vide letter no. G.O. (MS) No. 624 dated 23.09.1998, for the period of 30 years. Subsequently, the lease deed was executed on 16.03.2000, and got registered on 13.07.2001 and the period is valid up to 16.03.2030. As per the amendment in MMDR Act-1957 came in to existence on dated 12.01.2015 where the validity of this lease is deemed to be extended till 16.03.2050.

6. The project proponent submitted that the scheme of mining for G.O. Ms. No. 624, dated 23.09.1998 over an extent of 110.68.5 ha has been approved by Indian Bureau of Mines under Rule 12(3) of MCDR 1988 for the period 2016-17 to 2020-2021 vide approval No. TN/ALM/LST/MS-1300-MDS, dated 25.01.2016. Hence the present

modification to the approved Mining Plan is prepared for the period 2018-19 to 2020-21 under Rule 17(3) of MCR-2016.

7. The project proponent submitted that the mining will be carried out opencast, fully mechanized, adopting non-conventional method by deploying rock breaker for primary and secondary breaking eliminating drilling and blasting thus adopting eco-friendly mining. The life of is 13 years with respect to present proposed production rate. PP submitted that there is no change in the working process. No drilling and blasting is involved.

8. The project proponent submitted that the total water requirement will be 20.7 KLD which shall be met from water tanker through reservoir at G.O. 344. The domestic water demand has been calculated as drinking and sanitation 1.2 KLD and for dust suppression 9 KLD, Green belt development 10.5 KLD.

9. The project proponent submitted that plantation: 54750 Nos @ 1500 per ha of 33% of the project area (110.685 Ha).

S.No	Particulars	Area
1	Mine lease area	110.685
2	33% of the mine lease area	36.5
3	Life of mine	13 years
4	Total Number of Plant to be planted@ 1500 plant/ ha	54750 Nos.
5	Plantation for each year	4211 Nos say 4200.
6	Survival @ of 80% per year	3360

10. The project proponent submitted that no Forest Area/Protected Area within the lease area. Pavocristatus (Indian Peafowl) has been found near the site. PP submitted the letter to PCCF, Chennai vide letter no. TANCEM/MINES/CO/ASLM/G.O. 624/FOREST/2021 dated 17.02.2021 requesting to authenticate the wildlife conservation plan. Approved revised conservation plan has not been submitted by PP yet.

11. The project proponent submitted that the baseline data was collected during March – May 2018 (Pre- Monsoon period).

12. The project proponent submitted that the public hearing was conducted on 24/10/2019

13. The Project proponent submitted that safety occupational hazards involved in mines are related to dust pollution, noise pollution, injuries from equipment, fall from high places etc. All necessary first aid and medical facilities will be provided to the workers. The mine will be well equipped with proper fire protection and firefighting equipment. All operators and mechanics will be trained to handle fire-fighting equipments. Further all the necessary protective equipments such as safety shoes, helmets, safety goggles, earplugs, earmuffs, etc. will be provided to persons working in mines as per The Mines Rules, 1955.

14. The Project proponent submitted that there is no displacement of people from their respective areas due to mining activity is restricted to lease existing ML area and no habitation in the lease area therefore rehabilitated & resettled (R&R) plan is not be applicable.

15. The project proponent submitted that the existing environment management plan (EMP) capital cost is Rs. 46.25 Lakhs and recurring cost is Rs. 18.53 Lakh per annum. The recurring cost for Corporate Environment Responsibility is Rs. 1 Lakh per annum.

16. The Project Proponent submitted that there is no litigation is pending against the project.

17. The Project Cost is Rs. 1 Crore. The employment generation is 41 persons.

18. The proposal was considered in the 30th EAC meeting held during 6-8th March, 2021. The Committee noted that in 2010 TANCEM entered into an agreement with TNPL (Tamil Nadu Newsprint Limited-Govt. Of Tamil Nadu Company) for plantation of Eucalyptus in an area of 200 acres (81 Ha) for 12 years period. However, TANCEM later learnt that only native species plantation will be considered for greenbelt development. Accordingly, TANCEM management decided to pre-close the agreement with TNPL due to which the harvest started early (Cutting of tree at bottom of main stem not complete removal of plant) and completed harvest in 2018. PP was not able to mention that how many trees were cut and sold during the presentation.

19. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **Recommended** the proposal under the provision of Notification S.O. 1530 (E) dated 6th April, 2018 for Environmental Clearance of Anandavadi Limestone Mines with expansion in production capacity from 0.26 MTPA to 1.5 MTPA in the mine lease area 110.685 ha located at Village Anandavadi, District Ariyalur, Tamil Nadu by M/s Tamil Nadu Cements Corporation Limited along with the following specific conditions:

- i. The project proponent must give an undertaking to comply to EC condition related to green belt development and gap plantation along lease boundary as well as carry out plantation on dump, along avenue, haul road and on closed pits using “tall “ (6 ft) seedlings within 6 months from date of grant of EC.
- ii. The project proponent informed that they had entered into an agreement with TNPL for plantation as part of EC compliance. However, on realising that Eucalyptus cannot comply with the plantation norms, the TNPL were allowed by PP to cut the trees. But the PP could not give the information regarding the number of trees cut and sold and its actual worth. PP must give an undertaking mentioning the above-mentioned information along with all the necessary permissions from the concerned authority.
- iii. The Project Proponent shall use hydraulic rock breaker for mining operation.
- iv. PP shall take necessary steps to avoid the fugitive dust emission due to mining activities and vehicle movement. The roads shall be regularly cleaned and maintained in proper conditions by the project authorities.

DAY- 3 (08.04.2021)

3.1: Proposal for Environmental Clearance of Sivalarpatti Lease - II (Extent - 129.72 Ha.) with proposed production capacity of 0.21 MTPA of limestone (0.24 MTPA of ROM) located at Villages Kullakattankurichi, Pudur, Muthusampuram, Sivalarpatti and Vannipatti, Taluk Vilathikulam, District Thoothukudi State Tamil Nadu by M/s. The Ramco Cements Limited - [Proposal no: IA/TN/MIN/51673/2016; File No. J-11015/126/2016.IA.II (M)] - Reconsideration of EC

The proposal of M/s. The Ramco Cements Limited is for production capacity of 0.21 Million TPA of limestone (0.24 Million TPA of ROM) of Sivalarpatti Limestone Mine Lease -II having mining lease area 129.72 ha. The mine is located at Kulakattankurichi, Pudur, Muthusampuram, Sialarpatti and Vannipatti Villages, Vilathikulam Taluk, thoothukudi District, Tamil Nadu. The mine area is a part of the Survey of India toposheet No.58 K / 3 between coordinates latitude 9°17'45.90" to 9°20'1.15" N and longitude 78°08'32.04" to 78°09'54.76" E. The mine site falls in seismic zone III.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A or Activity 1(a) Mining of minerals as the mining lease area is greater than 100 ha.

3. The ToR was issued by the Ministry vide Lr. No. J-11015/126/2016-IA.II (M) dated 13.05.2016 for Sivalarpatti Limestone Mine Lease -II with proposed production capacity of 0.21 Million TPA of limestone (0.24 Million TPA of ROM) (MLA: 129.72ha). The PP vide proposal no. IA/TN/MIN/51673/2016 applied online for grant of EC on 10.12.2016. The proposal was first considered in EAC meeting held during 15 -16th December, 2016 wherein the Committee deferred the proposal. The proposal was re-considered in EAC meeting held during 20-21 February 2019 wherein the proposal was deferred. Again, the proposal was considered in 27th EAC meeting held during 3-5th February, 2021 wherein the proposal was deferred due to few shortcomings. Reply for the same was submitted by the project proponent which is as follows:

EAC Meeting details	Queries raised	Reply by PP
27 th EAC Meeting held on 05.02.2021	Revise the budget for EMP showing separately the capital cost and the recurring cost till the closure of the mine.	The EMP budget is now revised showing separately the proposed capital cost (Rs. 40.0 Lakhs within ML area, Rs.20 Lakhs outside ML area) and the recurring cost as required.
	Revise the project cost including the land cost and 2% of this cost should be shown under EMP for undertaking capital expenditure outside the lease for addressing the concerns expressed by the public. This will be shown as total capital cost. This will be target based expenditure including only capital cost and will be monitorable and verifiable expenditure.	The earlier project cost was Rs. 307.28 lakhs. Revised project cost is Rs 901 lakhs after inclusion of land and machinery. Rs.20 Lakhs (2.2% of the capital cost) is allocated for capital expenditure for EMP measures outside the lease area. Details submitted.
	Generate scenario for potential environmental impact with normative and peak production scenarios if envisaged during life of the mine.	Considering 300 days of operation, the normative production works out to be 1196 TPD as against the peak production of 1548TPD. The impact assessment is done for

		<p>this peak production scenario of 1548TPD and given in EIA/EMP Report. The normative values are around 30% less than the peak production. Details submitted</p>
	<p>Undertaking needs to be submitted by project proponent that safety zone plantation will be completed in 3 years.</p>	<p>Undertaking has been submitted 02.03.2021 to carry out safety zone plantation over an area of 13.54Ha with over 20,310 plants in two years and an amount of Rs.24.37Lakhs is allocated for the same.</p>
	<p>Since the project proponent is transporting the material by road which is 14Km to the crusher and further to cement plant. A line source scenario for pollutant to be generated and plan for avenue plantation with budget and timeline needs to be submitted if not done so far.</p>	<p>Line source scenario for pollutant due to transportation of ore by road from the lease area to the crusher is determined using AERMOD View model. No significant impact observed and details have been submitted.</p> <p>Besides, transportation of mineral is carried out through dedicated Black topped road of TRCL from the mine to the crusher unit.</p> <p>Avenue plantation is partially done and commitment for remaining area with budget and timeline is submitted.</p> <p>Quantity: 17300 nos of saplings Capital out lay of Rs 20.76 Lakhs from year 2021-22 to 2024-25. The details of the same along with a plantation plan and the photographs of plantation already carried out have been provided. All the</p>

		above points were complied and submitted on 02.03.2021.
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4. The project proponent submitted that application for mining lease was made by M/s Madras Cement Ltd. on 16.10.1997. The State Govt. issued precise area communication vide letter dated 29.04.2013 wherein PP was requested to submit approved mining plan and Clearance from MoEF for issuance of the order of grant of mining lease. The State Govt. also issued ERRATA to the Annexure -1 of the letter dated 29.04.2013 vide letter dated 17.12.2015. The State Govt. granted the mine lease in favour of M/s The Ramco Cements Ltd, for Limestone, over an area of 129.72 ha for 50 years, vide G.O. dated 06.01.2017. The mine lease was executed on 10.01.2017 and registered on 11.01.2017. The mine lease is valid upto 10.01.2067.

5. The project proponent submitted that the Mining Plan & Progressive Mine Closure Plan was approved by Indian Bureau of Mines vide Letter No. TTN/TKD/MP/LST-1978-MDS dated 23.05.2016. Further Review of Mining plan has been approved by IBM vide Lr No: TN/TKD/ROMP- 1608.MDS dated 19.11.2020 valid up to 31.03.2026.

6. The project proponent submitted that mine shall be mechanized, using a system of deep hole drilling and blasting. The bench height will be maintained at a maximum of 9 meters and the pattern of drilling shall be 3.5 m X 2.5 m spacing and burden with 115 mm diameter. PP also submitted that non-electric system using Shock tube detonators & Noiseless Trunk line delays as initiation system will be used for blasting. The mining will be carried out by forming the benches of 9 meter height and width 9 meters. PP submitted that ration of ore to waste shall be 1:0.52. PP submitted that individual bench slope shall be maintained 60° and overall pit slope shall be maintained at 45°. PP submitted that Limestone +35% Cao will be transported directly to the crusher located in the Pandalgudi premises. It will be blended with limestone from other mines and crushed, based on the grade requirements. Generation of sub grade mineral does not arise. The entire proved mineral reserves of 2.48 Million tonnes are estimated as mineable reserves. Based on mineable reserves with production rate of 0.21 Million TPA of clean limestone (0.24 Million TPA of ROM), the life of mine will be 11 years. PP submitted that 01 Nos. excavator of capacity 3.3 m³ , 01 Nos. backhoe loader of capacity 0.9 m³ , 01 Nos. air compressor of capacity 400 cfm, 1 Nos. BVB 25 drill of 112 mm dia, 01 Nos. dewatering pump of capacity 9000 lpm, 01 Nos. rock breaker of secondary of capacity 100 TPH, 10 Nos. Taurus for production transport & development of capacity 30 T, 01 Nos. jeep, 01 Nos. water sprinkler of capacity 8 KLD and 01 Nos. explosive van of capacity 10 T shall be deployed.

7. The project proponent submitted that out of total mine lease area of 129.72 Ha, an area of 0.975 Ha is Government Poramboke land and 128.745 Ha is dry patta land. The entire patta land is owned by TRCL. PP reported that there is no major vegetation except for some thorny bushes. No beneficiation process is involved in this lease area. However, the ROM from lease is taken to the nearby Pandalgudi crushing Plant after physical separation of waste if any for further processing. PP submitted that out of 129.72 ha granted lease area, about 13.79 Ha. is mineralized extent and the balance 115.93 ha of land is non-mineralized area, where the reject dumps are in existence over an extent of 43.48 Ha just adjacent to the already existing mining lease of TRCL granted vide G.O. Ms. No. 334 dated 23.12.1994. There are five blocks namely block – 1 to block – 5 in this lease. Only part of block – 5 is mineralized area where mining operations will be carried out. Nearest village is Melavenkateswarapuram which is 1.0 Km from the mine site East direction. Nearest School is Pudur which is 2.0 Km in SW direction. Nearest Highway is Madurai - Thoothukudi Highway (NH-45 B) which is 6.3 km away from the mine site in West direction.

8. The project proponent submitted that about 1.279 million Tonnes (0.468mil.cum) of waste comprising 0.086 Million tonnes (0.051 million Cu.M) of topsoil, 1.193 million tonnes (0.417 million Cu.M) of OB& ISR is likely to be generated till the end of life of mine. PP submitted that the topsoil will be stacked separately and will be used for reclamation purposes. The waste/OB will be accommodated in the proposed dump earmarked in the non-mineralized area and some quantity of this waste will be utilized for road repairs/bund formation. The PP submitted that at the end of life of mine, around 6.0 Ha of Mined out area will be left as water body, 1.46 ha of roads will be left for public use, dump plantation will be carried out in 47.09 ha of dump area & Topsoil storage area of 1.20 Ha will also be covered with plantation. Besides, green belt over an area of 23.64 ha will be carried out along mine periphery, virgin area and safety area left from cart track, EB lines, and mine boundary along the mine hauling roads. PP submitted that about 71.93 Ha covered under green belt/ dump plantation in the total lease area of 129.72 ha in post operational period. About 47.33 ha will be left as unused land.

9. The project proponent submitted that the ground water table during pre-monsoon season ranges from 10-12 m bgl in core zone and 12-15 m bgl in buffer zone and during the post monsoon season 9-14 m bgl in core zone and 7-9 m bgl in buffer zone. PP submitted that the mine working will intersect the ground water table. PP submitted that application regarding groundwater clearance / NOC for dewatering of groundwater during mining has been submitted to PWD, TN and the approval is awaited. PP submitted a letter issued from Water Resources Department, Public Work Department, Government of Tamil Nadu in reply of application made by PP wherein some information has been sought from the PP regarding NOC of ground water clearance. PP submitted that total water requirement for Sivalarpatti lease - II mine will be 50 KLD out

of which 5.0 KLD for domestic sanitary needs and 45 KLD shall be used for industrial activities Dust suppression and green belt development etc. PP submitted that initially, the industrial as well as the domestic water requirement will be met from the exhausted Pit at Pandalgudi Mine of the company being utilized as Water Reservoir. Subsequently, rainwater, seepage water if any collected in the mine pit sump shall meet the industrial water requirement.

10. The project proponent submitted that about 75.57 ha of the area will be developed with greenbelt and afforestation with over 93,558 plants. Following are the details:

Location	Area in Ha.	No. of Plants	Budget Proposed for Plantation & Green Belt (in Lakhs)	Expected Survival Rate (%)
Afforestation in Virgin Area & Dump Area	57.53	67848	81.42	80%
Green Belt in Safety Barrier 7.50 m, 10 m & 50 m	13.54	20310	24.37	90%
Sub Total for Afforestation & Green Belt of 30 Years	71.07	88158	105.79	
Area Already Afforested	4.50	5400		
Grand total afforestation & green belt	75.57	93558		

11. The project proponent submitted that there is no forest Land is involved in the mining lease area. PP submitted that no forest land certificate is obtained from the District Forest Officer, Thoothukudi district vide letter C.NO.D/5975/2016 dated 09.02.2017. PP submitted that there is no Wild Life Sanctuary or National Park or Biosphere within the study area of 10 km. Certificate in this regards stating "No National park, sanctuaries, Biosphere reserves, Wildlife corridors within 10km of Mining lease hold area" obtained from District Forest Officer, Thoothukudi, vide letter No.C.No.D/5975/2016/-1 dated 24.07.2017. The PP submitted that there is only one schedule-1 species viz. Peafowl is present in the study area. PP submitted that Conservation Plan for Pea Fowl (Pavo cristatus) was approved by the Principal Chief Conservator of Forests, Chennai vide Ref.No. WL5(A)/29659/2019 dated 06.02.2020.

12. The project proponent submitted that the baseline data on micrometeorology, Air, Water, Noise & Soil has been generated during summer season (March – May 2016). The monitoring results of ambient air for SO₂, NO₂, PM₁₀ and PM_{2.5} are within the prescribed CPCB limits for “Industrial, Residential, Rural & other areas”. The water quality of ground water samples were found to be within the prescribed IS: 10500 norms. The mine pit water quality is found to be within the prescribed TNPCB Norms. The monitored ambient noise levels were within the limit values for Residential areas. PP reported that there is no court case/ litigation pending against the project.

13. The project proponent submitted that the public hearing for the project was conducted on 29.11.2016 at T.R. Subbaraj Kalyana Mahal, Paralachi Road, Pudur, Villathikulam Taluk, Thoothukudi District through District Collector -Thoothukudi. The advertisement for public hearing was published in „Dhinamani“ (25.10.2016) and „Indian Express“ (25.10.2016). PP submitted that about 229 numbers of people were present for public hearing, out of which about 17 persons expressed their views. The Committee deliberated on the issues raised during the public hearing and the major issues raised by the local people were related to cart road, plantation, socio-economic development, employment, rain water in the fields from the dumps, to form a Committee to observe the impacts or to record observation/concerns of villagers, filling of the deeper pits, clearing of bushes, ground water drop, construction of check dams, training, etc.

14. The Project Proponent submitted that a financial provision of Rs. 40 lakhs is made under capital cost of EMP for fixed and mobile water sprinkler and drip irrigation within the lease area, and Rs. 20 Lakhs for various activities outside the lease area. A total of Rs. 253.58 lakhs is allocated under recurring cost of EMP for a period of 11 years for various activities such as dust suppression, construction and maintenance of surface runoff management structures, plantation, monitoring, etc.

15. The project proponent submitted that primary data collection through field survey conducted in the locality reveal that there is no reported incidents of any occupational diseases in the area. Besides, TRCL is committed to work towards ‘Zero Harm’ from their mining activities and carrying 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 company is & will also maintain accurate and systematic records of the HRA and all the tests carried out. A total budgetary recurring provision of Rs.3.0 lakhs is envisaged for occupational health management.

16. The project proponent submitted that no litigation is pending against the project. PP also submitted an Affidavit for complying with statutory requirements and judgement of Hon’ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No, 114 of 2014 (in the matter of common cause versus Union of India and Ors) was submitted on

02.02.2021. Undertaking for carrying safety zone plantation within the first three years was submitted on 02.03.2021.

17. The project proponent submitted that the total project cost is Rs. 9.01 Crores. PP also submitted that the project will provide direct employment to 32 persons. Besides, about 150 people will indirectly get employment in allied services like logistics, etc.

18. The proposal was considered in the 30th EAC meeting held during 6-8th April, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **Recommended** the proposal for Environmental Clearance of Sivalarpatti Lease - II (Extent - 129.72 Ha.) with proposed production capacity of 0.21 MTPA of limestone (0.24 MTPA of ROM) located at Villages Kullakattankurichi, Pudur, Muthusampuram, Sivalarpatti and Vannipatti, Taluk Vilathikulam, District Thoothukudi State Tamil Nadu by M/s. The Ramco Cements Limited along with the following specific conditions:

- i. The project proponent shall complete entire boundary plantation within three years. An action plan can be submitted in the first six-monthly compliance report.
- ii. The project proponent shall undertake appropriate topsoil conservation and reuse methods to avoid wastage of topsoil.
- iii. PP shall take necessary steps to avoid the fugitive dust emission due to mining activities and vehicle movement. The roads shall be regularly cleaned and maintained in proper conditions by the project authorities.

3.2: Proposal for Re-validation of Environmental Clearance under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 for Terms of Reference of Naredi-Mota-Nandra Bauxite Mining with Production Capacity 35,000 TPA in the Mine Lease Area – 169.5968 Ha. by M/s Gujarat Mineral Development Corporation Limited located at Village Naredi & Mota Nandra, Tehsil Abdasa, District Kutch, Gujarat – [Proposal no: IA/GJ/MIN/80946/2018; File No. J-11015/151/2018-IA-II(M)] - ToR

The proposal of M/s Gujarat Mineral Development Corporation is for ToR under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 for Naredi-Mota-Nandra Bauxite Mining of 35,000 TPA of Bauxite production in a mine lease area of 169.59 Ha. The mine is located at Village Naredi-Mota –Nandra, Tehsil Abdasa, District Kutch, Gujarat. The area falls between latitudes 23°10'57.0708"N, 23°12'20.6018"N & Longitude 69°11'40.4154"E, 2 69°12'39.8370"E. The mine lease area falls under the Survey of India Toposheet No. 41 E/3 old (new F 42

D/3), 41 E/4 old (F42 D/4 new) 41 E/7 old (new F 42 D/7) and 41 E/8 old (new F 42 D/8) on 1: 50,000 scale and falls under seismic zone V.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A or Activity 1(a) as the mining lease area is greater than 100 ha.

3. The Project Proponent applied online for grant of Terms of Reference (ToR) under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 vide proposal no. IA/GJ/MIN/80946/2018 dated 01.10.2018 and submitted Form-1 & Pre-Feasibility Report as per provision of S.O. 1530(E) dated 6.04.2018. The proposal was considered in the 38th EAC Meeting held during November 15-16, 2018 wherein the Committee deferred the proposal due to few shortcomings. The proposal was reconsidered in the 5th EAC Meeting held during May 29-30, 2019 herein the Committee observed that there is a violation in EC capacity (i.e. excess production) and returned the proposal in present form and suggested the Ministry to take appropriate action on violation of EC. The Committee was also of the view that the proposal may be transferred to violation committee for further appraisal. Accordingly, the Ministry had taken action in July 2019.

4. The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed:

i. Send the matter to the Sector EAC for consideration of the case on merit.

ii. Take action against the alleged violation as per law.

iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit.

iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed.

5. The proposal was considered in the 30th EAC meeting held during 6-8th April, 2021. The Committee noted that the Ministry had already issued letter to the Secretary, Forest and Environment department and Department of Mines and Geology, Government of Gujarat on 29th July, 2019. As per details by GMDC has submitted an undated document signed by geologist with different production details. EAC deliberated that Government of Gujarat should first respond to letter dated 29th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee **returned the proposal in present form.**

3.3: Proposal for Re-validation of Environmental Clearance under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 06th April 2018 for Terms of Reference of Mothala Balachod Bauxite Mining Project (Mine Lease Area – 280.7686 ha & Production Capacity 42,000 TPA) at Village: Balachod, Mothala & Khandai, Tehsil Abdasa, District Kutch, Gujarat – [Proposal no: IA/GJ/MIN/80789/2018; File No. J-11015/150/2018-IA-II(M)] - ToR

The proposal of M/s Gujarat Mineral Development Corporation is for ToR under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 for Mothala Balachod Bauxite Mining Project (Mine Lease Area – 280.7686 ha & Production Capacity 42,000 TPA). The mine is located at Village Balachod, Mothala & Khandai, Tehsil Abdasa, District Kutch, Gujarat. The area falls between latitudes N 23° 13' 17" to N 23° 15' 58" and longitudes E 69° 07' 24" to E 69° 10' 41" and is covered by Survey of India Toposheet No. 41 E/3 old (new F 42 D/3) and 41 E/4 old (F42 D/4 new) on 1: 50,000 scale. The mine site falls under seismic zone V.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A or Activity 1(a) as the mining lease area is greater than 100 ha.

3. The Project Proponent applied online for grant of Terms of Reference (ToR) under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 vide proposal no. IA/GJ/MIN/80789/2018 dated 01.10.2018 and submitted Form-1 & Pre-Feasibility Report as per provision of S.O. 1530(E) dated 6.04.2018. The proposal was considered in the 38th EAC Meeting held during November 15-16, 2018 wherein the Committee deferred the proposal due to few shortcomings. The proposal was reconsidered in the 5th EAC Meeting held during May 29-30, 2019 herein the Committee observed that there is a violation in EC capacity (i.e. excess production) and returned the proposal in present form and suggested the Ministry to take appropriate action on violation of EC. The Committee was also of the view that the proposal may be transferred to violation committee for further appraisal. Accordingly, the Ministry had taken action in July 2019.

4. The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed:

- i. Send the matter to the Sector EAC for consideration of the case on merit.
- ii. Take action against the alleged violation as per law.
- iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit.

iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed.

5. The proposal was considered in the 30th EAC meeting held during 6-8th April, 2021. The Committee noted that the Ministry had already issued letter to the Secretary, Forest and Environment department and Department of Mines and Geology, Government of Gujarat on 29th July, 2019. As per details by GMDC has submitted an undated document signed by geologist with different production details. EAC deliberated that Government of Gujarat should first respond for letter dated 29th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee **returned the proposal in present form.**

3.4: Proposal for Re-validation of Environmental Clearance under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 for Terms of Reference of Roha-Kotada-Nandra-Jarjok Bauxite Mining with Production Capacity 1,00,000 TPA in the Mine Lease Area – 360.3601 ha by M/s Gujarat Mineral Development Corporation Limited located at Village Roha, Kotada, Nana Nandra, Mota Nandra & Jarjok Tehsil Abdasa & Naktarna, District Kutch, Gujarat – [Proposal no: IA/GJ/MIN/80983/2018; File No. J-11015/149/2018-IA-II(M)] - ToR

The proposal of M/s Gujarat Mineral Development Corporation is for ToR under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 for Roha-Kotada-Nandra-Jarjok Bauxite Mining (Mine Lease Area – 360.3601 ha & Production Capacity 1,00,000 TPA). The mine is located at Village Roha, Kotada, Nana Nandra, Mota Nandra & Jarjok Tehsil Abdasa & Naktarna, District Kutch, Gujarat. The area falls between latitudes N 23° 09' 02.0699" to N 23° 11' 44.0735" and longitudes E 69° 12' 51.9511" to E 69° 14' 48.4610" and is covered by Survey of India Toposheet No. 41 E/3 old (new F 42 D/3) and 41 E/4 old (F42 D/4 new) on 1: 50,000 scale. The mine site falls under seismic zone V.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A or Activity 1(a) as the mining lease area is greater than 100 ha.

3. The Project Proponent applied online for grant of Terms of Reference (ToR) under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 vide proposal no. IA/GJ/MIN/80983/2018 dated 01.10.2018 and

submitted Form-1 & Pre-Feasibility Report as per provision of S.O. 1530(E) dated 6.04.2018. The proposal was considered in the 38th EAC Meeting held during November 15-16, 2018 wherein the Committee deferred the proposal due to few shortcomings. The proposal was reconsidered in the 5th EAC Meeting held during May 29-30, 2019 herein the Committee observed that there is a violation in EC capacity (i.e. excess production) and returned the proposal in present form and suggested the Ministry to take appropriate action on violation of EC. The Committee was also of the view that the proposal may be transferred to violation committee for further appraisal. Accordingly, the Ministry had taken action in July 2019.

4. The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed:

- i. Send the matter to the Sector EAC for consideration of the case on merit.
- ii. Take action against the alleged violation as per law.
- iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit.
- iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed.

5. The proposal was considered in the 30th EAC meeting held during 6-8th April, 2021. The Committee noted that the Ministry had already issued letter to the Secretary, Forest and Environment department and Department of Mines and Geology, Government of Gujarat on 19th and 29th July, 2019 respectively. As per details by GMDC has submitted an undated document signed by geologist with different production details. EAC deliberated that Government of Gujarat should first respond for letter dated 29th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee **returned the proposal in present form.**

3.5: Proposal for Re-validation of Environmental Clearance under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 for Terms of Reference of Daban-Wamoti Bauxite Mining Project in the Mine Lease Area – 642.0550 ha with the Production Capacity 0.24 MTPA by Gujarat Mineral Development Corporation Limited located at Village: Daban, NaniWamoti, Khanai, Balapar&Rasalai, Tehsil Abdasa&Nakhatrana, District Kutch, Gujarat– [Proposal no: IA/GJ/MIN/80929/2018; File No. J-11015/152/2018-IA-II(M)] - ToR

The proposal of M/s Gujarat Mineral Development Corporation is for ToR under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 for Daban-Wamoti Bauxite Mining Project (Mine Lease Area – 642.0550 ha & Production Capacity 0.24 MTPA). The mine is located at Village Roha, Kotada, Nana Nandra, Mota Nandra & Jarjok Tehsil Abdasa & Naktarna, District Kutch, Gujarat. The area falls between latitudes N 23° 18' 42" to N 23° 23' 23" and longitudes E 69° 03' 34" to E 69° 05' 49.4610" and is covered by Survey of India Toposheet No. 41 E/3 old (new F 42 D/3) and 41 E/4 old (F42 D/4 new) on 1: 50,000 scale. The mine site falls under seismic zone V.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A or Activity 1(a) as the mining lease area is greater than 100 ha.

3. The Project Proponent applied online for grant of Terms of Reference (ToR) under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 vide proposal no. IA/GJ/MIN/80929/2018 dated 01.10.2018 and submitted Form-1 & Pre-Feasibility Report as per provision of S.O. 1530(E) dated 6.04.2018. The proposal was considered in the 38th EAC Meeting held during November 15-16, 2018 wherein the Committee deferred the proposal due to few shortcomings. The proposal was reconsidered in the 5th EAC Meeting held during May 29-30, 2019 herein the Committee observed that there is a violation in EC capacity (i.e. excess production) and returned the proposal in present form and suggested the Ministry to take appropriate action on violation of EC. The Committee was also of the view that the proposal may be transferred to violation committee for further appraisal. Accordingly, the Ministry had taken action in July 2019.

4. The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed:

- i. Send the matter to the Sector EAC for consideration of the case on merit.
- ii. Take action against the alleged violation as per law.
- iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit.
- iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed.

5. The proposal was considered in the 30th EAC meeting held during 6-8th April, 2021. The Committee noted that the Ministry had already issued letter to the Secretary, Forest and Environment department and Department of Mines and Geology, Government of Gujarat on 29th July, 2019. As per details by GMDC has submitted an undated document signed by geologist with different production details. EAC deliberated that Government of Gujarat should first respond for letter dated 29th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee **returned the proposal in present form.**

3.6: Proposal for Re-validation of Environmental Clearance under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 for Terms of Reference of Ratadia- Nagrecha Bauxite Mining with Production Capacity 1,00,000 TPA in the Mine Lease Area of 204.07 ha by M/s Gujarat Mineral Development Corporation Limited located at Village Ratadia & Nagrecha, Tehsil Mandvi, District Kutch, Gujarat – [Proposal no: IA/GJ/MIN/80975/2018; File No. J-11015/148/2018-IA-II(M)] - ToR

The proposal of M/s Gujarat Mineral Development Corporation is for ToR under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 for Ratadia- Nagrecha Bauxite mining project (Mine Lease Area – 204.07 ha & Production Capacity 1,00,000 TPA). The mine is located at Village Ratadia & Nagrecha, Tehsil Mandvi, District Kutch, Gujarat. The area falls between latitudes N 23° 18' 42" to N 23° 23' 23" and longitudes E 69° 03' 34" to E 69° 05' 49.4610" and is covered by Survey of India Toposheet No. 41 E/3 old (new F 42 D/3) and 41 E/4 old (F42 D/4 new) on 1: 50,000 scale. The mine site falls under seismic zone V.

2. As per EIA Notification dated 14th September, 2006 as amended from time to time, the project falls under Category A or Activity 1(a) as the mining lease area is greater than 100 ha.

3. The Project Proponent applied online for grant of Terms of Reference (ToR) under the provision of EIA Notification 2006 and in compliance of MoEF&CC Notification dated 6th April 2018 vide proposal no. IA/GJ/MIN/80975/2018 dated 01.10.2018 and submitted Form-1 & Pre-Feasibility Report as per provision of S.O. 1530(E) dated 6.04.2018. The proposal was considered in the 38th EAC Meeting held during November 15-16, 2018 wherein the Committee deferred the proposal due to few shortcomings. The proposal was reconsidered in the 5th EAC Meeting held during May 29-30, 2019 herein the Committee observed that there is a violation in EC capacity (i.e. excess production) and returned the proposal in present form and suggested the Ministry to take appropriate action on violation of EC. The Committee was also of the

view that the proposal may be transferred to violation committee for further appraisal. Accordingly, the Ministry had taken action in July 2019.

4. The following principle as approved by the Competent Authority with respect to consideration of violation cases to be followed:

- i. Send the matter to the Sector EAC for consideration of the case on merit.
- ii. Take action against the alleged violation as per law.
- iii. Do not wait for either the evidence of action having been started or violation proceedings to finish before taking up the case on merit.
- iv. The EC if given after consideration on merit would be valid from the date it is given and not with retrospective effect. For the period before it, if violation is established by the court or the competent authority, the punishment/penalty as per law would be imposed.

5. The proposal was considered in the 30th EAC meeting held during 6-8th April, 2021. The Committee noted that the Ministry had already issued letter to the Secretary, Forest and Environment department and Department of Mines and Geology, Government of Gujarat on 29th July, 2019. As per details by GMDC has submitted an undated document signed by geologist with different production details. EAC deliberated that Government of Gujarat should first respond for letter dated 29th July, 2019 and the proposal can be considered only after the reply received by them. Therefore, the Committee **returned the proposal in present form.**

List of members of Expert Appraisal Committee participated through VC

S.No.	Member Name	Member Address	Designation	6 th April, 2021	7 th April, 2021	8 th April, 2021
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra	Chairman	Yes	No	No
2	Dr. Ajay Deshpande	Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	Yes	Yes	Yes
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad- 500025, Andhra Pradesh	Member	Yes	Yes	Yes

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4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member	Yes	Yes	Yes
5	Shri Santosh Gupta	Flat No. 405, Block –B, Gaur Green Vista, NyayKhand -1, Indrapuram, Ghaziabad- 201014	Member	Yes	Yes	Yes
6	Dr. (Ms.) Asha Rajvanshi	B104/106 Rock Valley Apartments, GMS Road, Sewla Kala, P.O Majra, Dehradun-248171 (Email: asharajvanshi@gmail.com)	Member	Yes	Yes	Yes
7	Shri G.P. Kundargi	Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra	Member	No	No	No
8	Dr. A.K. Malhotra	C-6, SubhavnaNiketan, Road No. 41, Pitampura, Delhi- 110034	Member	Yes	Yes	Yes
9	Dr. Gurdeep Singh	Centre of Mining Environment, Department of Environmental Science & Engg. Indian Institute of Technology (Indian School of Mines), Dhanbad-826004	Member	No	Yes	Yes
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	Yes	Yes	Yes
11	Prof. Mukesh Khare	Department of Civil Engineering, IIT, Delhi	Member	No	No	No
12	Mr. V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	Yes	No	No
13	Sh. Pankaj Kulakshethra	Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	No	No	No

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14	Sh. Aftab Ahmed	Representative of DGMS, DMS, Room No. 201-203, II Floor, B-Block, CGO-II,, Hapur Rd, Kamla Nehru Nagar, Ghaziabad, Uttar Pradesh 201002	Member	No	No	No
15.	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira ParyawaranBhawan, MoEF&CC, Jorbhag, New Delhi- 110003	Member Secretary	Yes	Yes	Yes
