

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

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**SUMMARY RECORD OF 28<sup>th</sup> MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.**

The 28<sup>th</sup> 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 24<sup>th</sup>-26<sup>th</sup> February, 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 27<sup>th</sup> EAC Meeting held during 3<sup>rd</sup>-5<sup>th</sup> February, 2021**

The minutes of 27<sup>th</sup> EAC Meeting held during 3<sup>rd</sup>-5<sup>th</sup> February, 2021 was placed before the members of the Committee. The Member Secretary informed the Committee that the following corrigendum was made in 27<sup>th</sup> EAC Meeting held during 3<sup>rd</sup>-5<sup>th</sup> February, 2021 as given below:

<b>S. No.</b>	<b>As per EAC meeting minutes dated on 3<sup>rd</sup>-5<sup>th</sup> February, 2021</b>	<b>PP requested for corrigendum</b>	<b>EAC recommended</b>
1	Page No. 66, Point no 1, Line No. 6  The mine lease area falls under the Survey of India Toposheet No 56 C/16 and bounded by latitude 17°06'49.4" N to 17°09'59.9" N and longitude 83°17'41.90" E to 83°17'52.90"E.	PP requested for corrigendum vide Lr. SCL/ToR/Farhatabad-Mine/2020-21 dated 16.02.2021.  The mine lease area falls under the Survey of India Toposheet No 56 C/16 and bounded by latitude 17°06'49.4" N to 17°09'59.9" N and longitude 76°47'55.4" E to 76°50'07.9"E.	The mine lease area falls under the Survey of India Toposheet No 56 C/16 and bounded by latitude 17°06'49.4" N to 17°09'59.9" N and longitude 76°47'55.4" E to 76°50'07.9"E.

2	Page No. 68, Point no 10, Line No. 4 One season Baseline Study will be carried out during <b>Summer Season (March to May, 2021)</b> .	To consider the baseline study for the <b>Winter Season, (December, 2020 to February, 2021)</b> .	The Project Proponent shall utilize the baseline data collected during <b>Winter Season, (December, 2020 to February, 2021)</b> .
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**DAY-1 (24.02.2021)**

**1.1: Proposal for Environmental Clearance (EC) for Bela Cement Limestone Mine 02 (BCLM - 02), (M.L. Area: 264.095 Ha.) of M/s. UltraTech Cement Ltd with Total Excavation of 1.374 Million TPA (Limestone 1.0 Million TPA (ROM), Overburden 0.170 Million TPA, Topsoil 0.204 Million TPA) at Villages Madheypur, Chhijwar & Baheliya, Tehsil- Huzur, District- Rewa, Madhya Pradesh - [Proposal no: IA/MP/MIN/71989/2017; File No. J-11015/5/2018-IA-II(M)] - Environmental Clearance (EC)**

The proposal of M/s UltraTech Cement Limited is for grant of Environmental Clearance for Bela Cement Limestone Mine 02 (BCLM - 02), (M.L. Area: 264.095 Ha.) with Total Excavation of 1.374 Million TPA (Limestone 1.0 Million TPA (ROM), Overburden 0.170 Million TPA, Topsoil 0.204 Million TPA) at Villages Madheypur, Chhijwar & Baheliya, Tehsil- Huzur, District- Rewa, Madhya Pradesh. The mine lease area falls under the Survey of India Toposheet No 63 H/2, 63 H/3, 63 H/6 & 63 H/7 and bounded by latitude 24°21'38"N to 24°32'44"N and longitude 81°10'23.5"E to 81°11'52" E and falls in seismic zone-II.

2. As per EIA Notification dated 14<sup>th</sup> 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 Project Proponent submitted that the proposal for Terms of Reference (ToR) vide proposal no IA/MP/MIN/71989/2017 dated 31.12.2017 and the proposal was considered in the EAC meeting held during January 18<sup>th</sup> -19<sup>th</sup>, 2018, March 22<sup>nd</sup> -23<sup>rd</sup>, 2018 and May 14<sup>th</sup> -15<sup>th</sup>, 2018 and the Ministry granted ToR vide letter No. J-11015/05/2018-IA.II(M) dated 02.07.2018. Then, PP applied for Environmental Clearance vide online proposal no. IA/MP/MIN/71989/2017 on 01.02.2021 and submitted the Form2 and EIA report after conducting the Public Hearing. The proposal was considered in the 28<sup>th</sup> EAC meeting held during 24<sup>th</sup>-26<sup>th</sup> February, 2021.

4. The Project Proponent submitted that the Letter of Intent for Limestone Mine (ML area 264.095 ha) at villages - Madheypur, Chhijwar, Baheliya, Tehsil - Huzur, District - Rewa (Madhya Pradesh) was issued in the favor of M/s Jayprakash Associates Limited vide letter no F 3-23/2016/12-1 dated 16.12.2016 by Dept. of Mineral Resources, M.P. Government. Mining lease was granted in favor of M/s Jayprakash Associates vide lease grant order no. F-3- 23/2016/12/1 dated 13.04.2017. Mining Lease Deed was executed on 11.05.2017 and the executed lease deed was registered on 11.05.2017 which is valid up to 10.05.2067 (50 years). In the meantime, Jaiprakash Associates Ltd ("JAL") and Jaypee Cement Corporation Ltd. ("JCCL") Business was transferred to UltraTech Cement Ltd (UTCL) by National Company Law Tribunal Bench (NCLTB) at Mumbai on 15.02.2017 in case of UTCL and NCLTB at Allahabad on 02.03.2017 in case of Sellers. Henceforth, the Jaypee Bela Plant and Mines of M/s Jaiprakash Associates Ltd and M/s Jaypee cement Corporation Ltd. along with all the contracts, deeds, approvals, schemes etc. have been transferred to UltraTech Cement Ltd (Unit: Bela Cement Works) on 29.06.2017. An order regarding transfer of lease from M/s Jaiprakash Associates Ltd. to UltraTech Cement Ltd. was issued dated 08.06.2017 by Dept. of Mineral Resources, M.P. Government. Subsequently, Mining transfer Lease deed has been executed in favor of M/s. UltraTech Cement Ltd on 10.08.2017 and registered on 23.08.2017.

5. The Project Proponent submitted that the Mining Plan with Progressive Mine Closure Plan was approved by IBM vide letter no MP/Rewa/Limestone/MPLN/G-12/16-17/886 dated 06.03.2017 in the name of M/s Jaiprakash Associates Ltd (ML area 264.095 ha). Then, PP obtained approval for Change of Company name in the Mining Plan from M/s Jaiprakash Associates Ltd to M/s. UltraTech Cement Limited vide letter F.No. 716/5/C/2018 dated 19.04.2018 dated 22.03.2018.

6. The Project Proponent submitted that the Mining will be by fully mechanized opencast method with deep hole drilling and blasting. The drilling will be done with the help of 100/153 mm dia. Blasting will be done using ANFO and SME with use of NONEL to limit the throw of fly rocks and noise. Total 556 Kg/day of explosives will be used per day. Moreover, 600 Kg/day will be the maximum quantity of explosives. The excavation and transportation of mineral will be by deploying Heavy Earth Moving Machineries. The blasted limestone will be loaded into dumpers with the help of hydraulic excavators. 2 no. of Komatsu PC-600 or CK-300 & BEML 650 with 3.8 to 4.1 cum bucket capacity. The excavated limestone will be transported to the crusher (located in Cement Plant) by dumpers. PP reported that the Total Geological Resources as 51.098 Million Tonne and Mineable reserves as 34.298 Million Tonne. Life of the mine will be 37 years. The OB will be handled in the form of Soil and UMS by developing two separate benches. During initial mine opening, mine development will be taken up and OB will be removed to expose limestone formation. During the initial

years of mining OB bench will be developed in OBS & UMS. The OB removed from the area shall be put as temporary dump for the first five years of mining. Top soil will be stacked separately and will be simultaneously used in the plantation. The waste generated will be stacked separately in the earmarked places and later on backfilled in the mined-out area and reclaimed by plantation. The proponent submitted that no external dumps are proposed in the area.

7. The Project Proponent submitted that the Nearest Village is Baheliya (Habitation falling within the restricted part of the lease area). Nearest School is govt. Primary School 2 km from ML boundary. Nearest highway is NH7 (New name: NH30) (~4.0 km in SE direction).

8. The Project Proponent submitted that the total water requirement for proposed project is about 50 KLD, which includes 20KLD water for dust suppression, 20KLD for green belt development/plantation and 10 KLD for domestic purpose. Domestic waste water (8 KLD) generated from mine office, rest shelters etc. will be disposed off in soak pit via septic tanks. Water requirement will be met from ground water (bore wells) and remaining quantity from rain water stored in sump of existing mine. Application for withdrawal & intersection for Ground Water has been submitted to CGWB vide letter no. 21-4/715/MP/MIN/2018 dated 25.10.2018. No waste water will be discharged outside ML Area which may contaminate any surface water body.

9. The Project Proponent submitted that the Total 97.79 ha area will be covered under Green belt and plantation (6.79 ha on 7.5 m barrier zone of Ultimate Pit Limit including the safety barrier of patches (restricted part) which are not the part of lease area and 91 ha on backfilled area). Greenbelt will be done in first five year of commencement of mining activities. Around 16975 plants will be planted in 6.79 ha area of greenbelt and 227500 plants will be planted on 91 ha of backfilled area. Local Species will be planted after consultation with local forest dept such as *Azadirachta indica* (Neem), *Cassia fistula* (Amaltas), *Mangifera indica* (Mango), *Saraca asoca* (Sita Ashoka), *Terminalia arjuna* (Arjun), *Tamarindus indica* (Imli), *Syzygium cumini* (Jamun) etc. Total Budget allocated for greenbelt/plantation is 8.38 Crore for the entire life of mine. The budget includes the cost of Saplings, watering facilities, Labour Charge, Organic manure, Biofertilizers, Maintenance, fencing etc., which may vary in due course of time.

10. The Project Proponent submitted that there is no forest land involved in the mining lease area and letter for the same has been obtained from DFO Vide letter dated: 04.08.2018 and from PCCF, Madhya Pradesh vide letter no. va.pra/ma. Chi/1354 dated 25.02.2020. PP reported that Sathari Reserve Forest (~8.5 km in NW) exist within 10 km of the study area. There is no National Park, Wildlife Sanctuary,

Biosphere Reserves, Tiger Reserves, Wildlife Corridors, Protected Forest 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 and submitted the authenticated list of flora and fauna obtained from DFO Vide letter dated: 28.01.2019 and from PCCF, Madhya Pradesh vide letter no. va.pra/ma.Chi/1354 dated 25.02.2020.

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 Post Monsoon Season (October to December, 2018). The pre dominant downwind direction is North West. The concentrations of PM<sub>10</sub> and PM<sub>2.5</sub> for all the 17 AAQM stations were found between 56.7 to 85.8 µg/m<sup>3</sup> and 24.6 to 54.7 µg/m<sup>3</sup>, respectively. The concentrations of SO<sub>2</sub> and NO<sub>2</sub> were found to be in range of 6.2 to 16.4 µg/m<sup>3</sup> and 10.2 to 25.6 µg/m<sup>3</sup> 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 17 locations in and around the mine site and Noise levels varied from 50.3 to 70.3 Leq dB (A) during day time and from 40.0 to 61.7 Leq dB (A) during night time. The Surface water analysis was carried out at 6 locations and is observed to be well with the limits of drinking water standards IS – 10500:2012. The ground and drinking water analysis for all the 14 sampling stations shows that water is suitable for drinking without disinfection/treatment. The analysis result for soil shows that pH value varies from 7.47 to 8.01 and soil textures of the soil samples were silty clay loam. Organic Matter ranges from 0.77% to 1.15% in the soil samples. Nitrogen is found to be in moderate amount as it ranges from 203.16 kg/ha to 276.85 kg/ha and Phosphorous in less amount i.e. from 42.76 kg/ha to 67.53 kg/ha, whereas the Potassium is found to be ranging from 181.41 kg/ha to 332.15 kg/ha.

13. The Project Proponent submitted that the advertisement for public hearing was published in 'Patrika' on 04.07.2020 and in Star Samachar & Times of India dated 05.07.2020. Public hearing was conducted on 05.08.2020 at lease area outside the UltraTech Cement Limited Bela Cement, Near Ganga Dwar Village Madheypur TeshilHuzur, District- Rewa M.P. under the Chairmanship of Additional Collector, District Rewa and Regional Officer, MPPCB, Rewa. PP also reported that 95 persons attended the Public Hearing. Issues raised during public hearing were related to employment, education, area development, pollution etc. An amount of Rs. 287.75 Lakh has been earmarked to address the issues raised during public hearing.

14. The Project Proponent submitted that out of total mine lease area 264.095 ha, 8.775 ha is Government land and remaining 255.32 ha is Private land. Out of the entire 255.32 ha Private land, about 12.545 ha land has been acquired & 242.775 ha land is

going to be acquired as per the guidelines of “Right to fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013 (LARR Act, 2013)” through mutual agreement. There are 457 project affected families in which 425 families are having land within ML Area, 10 families having house within ML area and 22 families having land and house both within the ML Area. Total 32 households falling within the lease area which will be compensated. Total budget for R&R is Rs. 171.096 Crores.

15. 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. Project Proponent submitted the affidavit dated 18.11.2020 that PP shall comply with all the statutory requirement & judgment of Hon’ble Supreme Court dated 2<sup>nd</sup> 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.

16. The Project Proponent submitted an undertaking dated 30.01.2021 that conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi, vide Letter No. J-11015/05/2018-IA.II (M) dated 02.07.2018 in favor of M/s UltraTech Cement Limited for Proposed Limestone Mine (ML Area: 264.095 ha) have been complied with, and the data submitted and the information presented in this report are factually correct. The Consultant also submitted an undertaking that the Consultant Organization shall be fully responsible for any misleading information mentioned in this statement.

17. The Project Proponent submitted that the total capital cost of the project is Rs. 184.096 Crore. PP allocated budget for occupational health as Rs 6.10 Lakhs as capital cost and Rs. 5.0 lacs/annum as recurring cost. PP revised the EMP budgetary plan vide letter no UTCL/ENV/MUM/2021/60 dated 24.02.2021 and proposed Rs 159.1 Lakh as Capital cost and Rs 48 Lakh as recurring cost for undertaking various activities proposed under Environment Management Plan. PP also proposed separate budget of Rs 287.75 Lakh (Capital cost) for addressing public hearing issues. PP reported that the total manpower required for the proposed mining project will be around 44 persons. As all the business of Jaypee was taken over by M/s. UltraTech Cement limited which resulted in huge no. of manpower i.e, 331 persons therefore existing manpower available with M/s. UltraTech Cement Limited (Unit: Bela Cement Works) will be used in this proposed mine.

18. The proposal for Environmental Clearance (EC) was considered before the Expert Appraisal Committee (Non Coal Mining) in its 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> - 26<sup>th</sup> February, 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 Bela Cement Limestone Mine 02 (BCLM - 02),

(M.L. Area: 264.095 Ha.) of M/s. UltraTech Cement Ltd with Total Excavation of 1.374 Million TPA (Limestone 1.0 Million TPA (ROM), Overburden 0.170 Million TPA, Topsoil 0.204 Million TPA) at Villages Madheypur, Chhijwar & Baheliya, Tehsil- Huzur, District- Rewa, Madhya Pradesh with the following specific conditions in addition to the standard conditions applicable for non- coal mining projects.:-

- i. The Project Proponent should leave safety barrier of 10 m covering an area of 2 ha on either side of haul road and avenue plantation should be carried out by planting at least 5000 saplings (@2500/ha) of dust tolerant species with the budget of Rs. 8.10 Lakh as proposed.
- ii. 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.
- iii. The issues raised during Public Hearing on skill development, vocational training, employment generation, cottage industries training for which an allocation of Rs 54.50 lakh is made and shown in the presentation shall also to be complied by the Project Proponent as a part of addressing the public concerns through a separate budget head, over and above the cost indicated i.e. Rs 287.75 Lakh as a capital expenditure and PP shall organize employment based apprenticeship/ internship training program with stipend for the youth and other programs to enhance the skill of the local people.
- iv. The Project Proponent shall ensure that the transportation of limestone from mine to cement plant should be done by haul road of existing mine (1.0 km length).
- v. The Project Proponent should also provide drinking water facility to the people of Chhijwar and Baheliya.
- vi. The Project Proponent shall obtain the NOC from CGWA for withdrawal of water before undertaking mining operations.

**1.2 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 (Incl. 0.55 MTPA BMQ), 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 [Proposal no: IA/CG/MIN/195912/2020; 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 (Incl. 0.55 MTPA BMQ), 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. 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 14<sup>th</sup> September, 2006 as amended from time to time, the project falls under Category A as the mining lease area is greater than 100 ha and Activity 1(a) Mining of Minerals and 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 28<sup>th</sup> EAC meeting held during 24<sup>th</sup>-26<sup>th</sup> February, 2021.



4. The proposal for Environmental Clearance (EC) was considered before the Expert Appraisal Committee (Non Coal Mining) in its 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> - 26<sup>th</sup> February, 2021. During the presentation 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 following information: -

- i. 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.
- ii. The Mining Plan should also include Mineral Dolerite and needs to be approved by the Competent Authority.
- iii. 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.
- iv. The Project Proponent should submit the material balance showing flow sheet indicating the total mineral handled in each process.
- v. The Project Proponent should address the Impact Assessment considering the total excavation including dolerite in the EIA report.
- vi. 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 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.
- vii. 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.
- viii. The Project Proponent has to submit the valid NOC from CGWA for ground water withdrawal.
- ix. 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.

**1.3 Proposal for Amendment in Environmental Clearance for re-distribution of iron ore production from Kalta and Taldih Blocks keeping total production from Barsua, Taldih & Kalta Blocks within permitted EC capacity of 8.05 MTPA under para 7(ii) of EIA Notification 2006 for Integrated Barsua-Taldih-Kalta Iron Ore Mining project (ML-130, Lease area 2486.383 Ha) of M/s Steel Authority of India Limited, located in Village Tantra and within Toda RF, Tehsil Koira, District Sundergarh, Odisha - [Proposal no: IA/OR/MIN/197576/2021; File No. J-11015/351/2006-I.A.II(M)] - Amendment in EC**

The proposal of M/s Steel Authority of India Limited is for Amendment in Environmental Clearance for re-distribution of iron ore production from Kalta and Taldih Blocks keeping total production from Barsua, Taldih & Kalta Blocks within permitted EC capacity of 8.05 MTPA under para 7(ii) of EIA Notification 2006 for Integrated Barsua-Taldih-Kalta Iron Ore Mining project (ML-130, Lease area 2486.383 Ha), located in Village Tantra and within Toda RF, Tehsil Koira, District Sundergarh, Odisha. The Mining Lease area is 18 km long and comprises of 3 mining blocks namely Barsua (Southern part), Taldih (Middle part) and Kalta (Northern part). The mine lease area falls under the Survey of India Toposheet No 73G/1 and bounded by latitude 21°49'25.43800" to 21°59'50.88516"N and longitudes from 85°07'43.73832" to 85°13'53.48136"E.

2. As per EIA Notification dated 14<sup>th</sup> 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 submitted that the Environmental Clearance was granted for a production capacity of 8.05 Million Tonnes of iron ore along with setting up of a beneficiation plant of 4.25 million TPA (in additional to existing plant of 2.5 million TPA) and setting up of a pelletisation plant of 2.0 million TPA capacity involving total mine lease area of 2486.391 Ha by MoEF vide letter no. J-11015/351/2006-IA.II(M) dated 29.10.2010. PP has earlier obtained Amendment in EC vide MoEF&CC letter no. J-11015/351/2006-IA.II(M) dated 30.03.2016. The EC was further amended for change in excavation & dispatch pattern with provisions for dispatch of tailings / dump fines from three mining blocks under ML-130 by MoEF&CC letter no. J-11015/351/2006-IA.II (M) dated 3<sup>rd</sup> July, 2020 with corrigendum dated 13<sup>th</sup> July 2020.

4. The Project Proponent informed that the Ministry of Mines, Govt. of India vide Order no. F.NO/16/30/2019-M.VI dated 16.09.2019 directed concerned State Governments to allow SAIL to sell iron ore up to 25% of total previous year production to mitigate shortage of iron ore on account of expired mining

leases pertaining to merchant mining on 31.03.2020. Govt. of Odisha vide order dated 02.12.2019 allowed SAIL to sell up to 25% of previous year production from SAIL mines in Odisha. Accordingly, SAIL has planned to maximize iron ore production from its mines up to EC permitted capacities and supply the additional iron ore in the open market in addition to meeting its own requirements. Taldih Mine commenced operation only in Nov., 2016. Due to limited availability of diverted area, production bottle-necks have developed and the mine's capacity is limited to 1.35 MTPA (i.e. 0.7 MTPA less than the permitted capacity of 2.05 MTPA). On the other hand Kalta Mine is operating since 1966 and the quarries are fully developed. In order to make up for the shortfall in iron ore production from Taldih, it is proposed to increase iron ore production from Kalta to 3.2 MTPA from 2.5 MTPA. The production from Barsua block would remain unchanged (3.5 MTPA). Thus the permitted capacity of 8.05 MTPA would not be exceeded. This can be achieved with existing resources without any increase in lease area (2486.383 ha).

In view of the above, the Project Proponent applied for Amendment in Environmental Clearance vide online Proposal No: IA/OR/MIN/197576/2021 dated 13.02.2021 for Change in Project Configuration of Barsua-Taldih-Kalta Iron ore Mining Project (ML-130) of SAIL for redistribution of production amongst of two of the three blocks of the mine (Kalta & Taldih) without changing the total approved capacity of the entire mine (8.05 MTPA) and mine lease area (2486.383 ha) under Para 7(ii) of EIA Notification 2006. The proposal was considered in the 28<sup>th</sup> EAC meeting held during 24<sup>th</sup>-26<sup>th</sup> February, 2021.

5. The Project Proponent submitted that the mine lease (ML-130) was first granted on 06.01.1960 for an area of 2486.383 Ha for a period of 30 years which expired on 05.01.1990. The Mining Lease has been renewed vide LOI Memo No. 4004/SM dated 29.05.2014 for 1<sup>st</sup> renewal as well as 2<sup>nd</sup> renewal period from 06.01.2010 to 05.01.2030. The lease deed for the 2<sup>nd</sup> renewal period from 06.01.2010 to 05.01.2030 has been executed on 13.11.2014 vide Registration I.D. No. 1721400594.

6. The Project Proponent submitted that the Modification of Review of Mining Plan of Barsua-Taldih-Kalta Iron Mine (ML-130) with the above proposed re-distribution of production has been approved by IBM, Bhubaneswar vide letter No MRMP/A/48-ORI/BHU/2020-21 dated 03.02.2021 for the period 2021-24 to 2024-25.

7. The Project Proponent submitted that the method of mining will be opencast mining with deep hole drilling and blasting along with deployment of shovel - dumper /truck combination. Beneficiation at Barsua Mine is being done by both dry / wet process involving crushing, screening, washing, jigging etc. The processing of ore at

Kalta and Taldih Mines is done by mobile Screening Plants and Crushing & Screening Plants. Part of the ore at Kalta Mine is also produced through manual sizing and sorting.

8. The Project Proponent submitted that the present water demand for Barsua-Taldih-Kalta Mine complex is about 7600 m<sup>3</sup> /day which include 2900 m<sup>3</sup> /day industrial and 4700 m<sup>3</sup> /day for drinking & domestic usage. Water is drawn from Kuradhi River and Najkura Nala with due permission from the Govt. of Odisha. PP submitted that the source of water required will be pumped through pipeline from surface water (KuradihiNalla) for which approval has been granted from Sundargarh Irrigation Division, Government of Odisha vide agreement dated 13.08.2015. PP requested for amendment for the following in the instant proposal:

- i) Increase in iron ore production from Kalta Block by 0.7 MTPA from 2.5 MTPA and the final capacity is 3.2 MTPA which also includes maximum of 0.5 MTPA of sub-grade iron ore fines excavated from accumulated stocks.
- ii) Reduction in iron ore production from Taldih Block by 0.7 MTPA from 2.05 MTPA and the final capacity is 1.35 MTPA which also includes maximum of 0.5 MTPA of sub-grade iron ore fines excavated from accumulated stocks.
- iii) Production from Barsua Block (3.5 MTPA) shall remain unchanged
- iv) Total production from Mines (8.05 MTPA) shall remain unchanged.
- v) No change in M.L. Area (2486.383 ha) or method of mining or mineral transport.

9. The Project Proponent submitted that the mine is spread over 2486.383 ha area which includes 2347.673 ha Forest Land, 24.014 ha private land and 114.696 ha Govt. Non-Forest land. Stage-2 forest clearance for diversion of entire forest land over 2341.931 ha was granted by MoEFCC vide F. No. 8-90/2011-FC(pt), dated 06.03.2013. PP also submitted that the Odisha – Jharkhand inter-state boundary is located about 300 m from the Mining Lease boundary on northern side. PP further submitted that there is no national park, biosphere reserve, elephant reserve, elephant corridor, tiger reserve, wildlife sanctuary within 10 km of the study area.

10. The Project Proponent submitted that there is no Schedule-1 species in the core zone but there is a presence of Schedule-1 species in the buffer zone viz. Palm Civet, Indian Elephant, Sloth Bear, Wolf, Mouse deer. PP has submitted a Site Specific Conservation Plan with a budget of Rs 2900.96 Lakh for 10 years. The same has been approved from the Office of Principal Chief Conservator of Forest (Wildlife) and Chief Wildlife Warden, Odisha, vide Memo No. 1655/1 WL(C) SSP-224/2012 dated 25.02.2013 with a financial forecast of Rs. 2900.96 lakh which includes the financial forecast of Rs. 1118.96 lakh for the activities to be implemented by M/s. SAIL in project area and financial amount of Rs. 1782.00 lakhs for activities to be implemented by the DFO, Bonai Division in project impact area.

11. The Project Proponent submitted that the baseline environmental data covering air quality, water quality, noise levels generated by SAIL during the period April, 2019 to March, 2020 and traffic density studies conducted during January, 2021 at a selected location. PP submitted that the fugitive emissions in the work zone are carried at five locations in Barsua Iron Mine (BIM), three locations in Taldih Iron Mine (TIM) and four locations in Kalta Iron Mine (KIM). The SPM values in all the twelve locations are well within the prescribed limits as per MoEF Notification No. GSR 809(E) dt 04.10.2010 for iron ore mining and processing. In addition, Continuous AAQ Monitoring stations (CAAQMS) have also been installed at three locations for measurement of PM10, PM2.5, Sulphur-dioxide (SO<sub>2</sub>) and Oxides of Nitrogen (NO<sub>x</sub>). The results indicated that the ambient air quality is within the norms of National Ambient Air Quality Standards (NAAQS), 2009. The noise levels had been monitored at three AAQ locations and four locations in the work zone during the 1<sup>st</sup> and 2<sup>nd</sup> quarters of 2019 - 20. During the 3<sup>rd</sup> & 4<sup>th</sup> Quarters of 2019 – 2020, noise was monitored at eleven locations in work zone and is found to be within the prescribed limits of CPCB. The ground water analysis was carried out 3 locations every month and observed to well within the prescribed limits of IS: 10500 (2012). The surface water analysis was carried out 6 locations every month and it is observed that the water is slightly reddish though is suitable for drinking in absence of any alternate source. Quality of Tailing Dam supernatant water before discharge and Tailing Dam Overflow water i.e. Discharge Water monitored every month. The results for pH, TSS, oil & Grease, BOD and COD were well with the prescribed limits. PP submitted that the Barsua, Taldih and Kalta Iron Mines under ML – 130 have implemented the Integrated Management System (IMS) and accredited to Quality Management System (QMS linked ISO – 9001 - 2015), Environmental Management System (EMS linked to ISO – 14001: 2015) and Occupational Health and Safety Management System (linked to ISO – 45001 - 2018).

12. The Project Proponent submitted that there is no R&R in the project area.

13. The Project Proponent submitted the EC Compliance report certified by RO, MoEF vide 101-257/07/EPE dated 17.12.2019. PP also submitted the Consent to Operate (CTO) issued by Odisha State Pollution Control Board vide no. 394/IND-I-CON-1 (A) dated 08.01.2021 for the period up to 31.03.2021.

14. The Project Proponent submitted the past production details for the period 1993-94 to 2018-19 duly authenticated by Deputy Director of Mines, Koira vide Lr. No. 6522/Mines dated 13.12.2019. PP reported that subsequent to the judgment of Apex Court dated 02.08.2017 the Government of Odisha has issued demand notice to BarsuaKalta Mines for payment of compensation towards excess production on or before 31<sup>st</sup> December, 2017 against EC / CTO capacity. Dy. Director of Mines (DDM), Koira vide letter dated 02.09.2017 issued a demand notice for payment of Rs. 66,89,42,779.5 /- in respect of Barsua / Kalta Iron Mines to recover price of mineral

produced without/beyond EC alone under Section 21 (5) of MMDR Act, 1957. The said amount was deposited on 29.12.2017 under protest. Further, letter No.5962/Mines dtd 24.10.2017 of DDM, Koira has directed to pay compensation of Rs.90,19,71,684.40 /- for mining in excess of the permissible limit under the Consent to Operate. Against the above stated demands, SAIL had filed a Writ Petition bearing WP (C) No- 24282/2017 in High Court of Odisha, Cuttack. The matter was heard and Hon'ble High Court had passed the stay order on 04.04.2018 & matter is sub-judice. PP also submitted the affidavit dated 20.04.2020 that Barsua-Taldih-Kalta Iron Ore Mine (ML-130, Mining Lease: 2486.383 Ha) of SAIL shall comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors subject to the result of the pending writ petitions before Hon'ble High Court of Odisha and further appeals thereto if need arises.

15. The Project Proponent submitted an undertaking dated 13.02.2021 that data and information given in the application, enclosure and other documents are true to best of his knowledge and belief and PP is aware that if any part of data or information submitted is found to be false or misleading at any stage the project will be rejected and clearance given if any will be revoked at his risk and cost.

16. The Project Proponent submitted that the total cost of the project will be Rs 458 Crores shall give employment to 800 persons. PP also submitted that the budget earmarked for Environmental Management Plan (EMP) shall be Rs 25 Crores (Capital) & Rs 2.5 Crores (recurring/annum).

17. The proposal for amendment in Environmental Clearance (EC) was considered before the Expert Appraisal Committee (Non-Coal Mining) in its 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> - 26<sup>th</sup> February, 2021. The Committee has deliberated in detail and opined that the proposal is for amendment in EC for redistribution of the production within the sanctioned EC capacity. In view of the above, the Committee **recommended** the proposal for Amendment in Environmental Clearance under para 7(ii) of EIA Notification 2006 for re-distribution as (i) increase in iron ore production from Kalta Block by 0.7 MTPA from 2.5 MTPA and the final capacity is 3.2 MTPA which also includes maximum of 0.5 MTPA of sub-grade iron ore fines excavated from accumulated stocks and (ii) reduction in iron ore production from Taldih Block by 0.7 MTPA from 2.05 MTPA and the final capacity is 1.35 MTPA which also includes maximum of 0.5 MTPA of sub-grade iron ore fines excavated from accumulated stocks within permitted EC capacity of 8.05 MTPA for Integrated Barsua-Taldih-Kalta Iron Ore Mining project (ML-130, Lease area 2486.383 Ha) of M/s Steel Authority of India Limited, located in Village Tantra and within Toda RF, Tehsil Koira, District Sundergarh, Odisha keeping all the other terms and

conditions of earlier EC dated 30.03.2016, 30.07.2020 and 13.07.2020 remain unchanged, with the following specific conditions:-

- i. The Project Proponent shall submit the additional EMP cost to take care for extraction of 0.7MTPA ROM and its transportation to Roxy railway siding.
- ii. The Project Proponent also informed that the internal haul road of 4.5km leading to National Highway will be used for next 4 years. The Committee permitted to utilize the internal haul road for next 4 years only by which time the conveyor shall be installed.
- iii. Production from Barsua Block (3.5 MTPA) shall remain unchanged.
- iv. Total production from Mines (8.05 MTPA) shall remain unchanged.
- v. No change in M.L. Area (2486.383 ha) or method of mining or mineral transport.

**1.4 Proposal for Terms of Reference for Kumaraswamy Iron Ore Mine (M.L.No.1111, M.L Area 480.79 Ha out of 639.80 Ha), of M/s NMDC Ltd. for Capacity Expansion of total excavation from 8.6 MTPA to 16.25 MTPA (RoM Iron Ore from 7 MTPA to 10 MTPA and waste excavation from 1.6 MTPA to 6.25 MTPA) with 1800 TPH crushing and screening plant located at village Deogiri, Sandur Tehsil, Ballari Dist., Karnataka - [Proposal no: IA/KA/MIN/196028/2021; File No. J-11015/13/2021-IA-II(M)] - Terms of Reference (ToR)**

The proposal of M/s NMDC Ltd. is grant of Terms of Reference for Kumaraswamy Iron Ore Mine [M.L.No.1111, M.L Area 480.79 Ha out of 639.80 Ha) (diverted forest area – 321.78 Ha & non-forest area – 159.01 Ha)] for Capacity Expansion of total excavation from 8.6 MTPA to 16.25 MTPA (RoM Iron Ore from 7 MTPA to 10 MTPA and waste excavation from 1.6 MTPA to 6.25 MTPA) with 1800 TPH crushing and screening plant located at village Deogiri, Sandur Tehsil, Ballari Dist., Karnataka. The mining lease is covered under SOI Toposheet D43E12 and bounded by Latitude between 15°00'00"N to 15°01'20"N and Longitude between 76°33'55"E to 76°37'10"E.

2. As per EIA Notification dated 14<sup>th</sup> 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 obtained Environmental Clearance under the provisions of EIA Notification, 2006 vide J-11015/93/2018-IA.II(M) dated 25.01.2021 for total excavation of 8.6 Million TPA (7.0 MTPA ROM Iron Ore & 1.6 MTPA Waste) from

Kumaraswamy Iron Ore Mine (Mining Lease area 480.79 Ha) and installation of 1800 TPH crushing and screening plant as per MoEF&CC notification S.O 1530(E) dated 06.04.2018. Now, the Project Proponent applied for Terms of Reference vide online proposal no: IA/KA/MIN/196028/2021 dated 03.02.2021 and submitted the Form-1 and Prefeasibility report. The proposal was considered in the 28<sup>th</sup> EAC meeting held during 24<sup>th</sup>-26<sup>th</sup> February, 2021.

4. The Project Proponent reported that the mining lease of Kumaraswamy was granted in favour of NMDC Ltd vide Notification No. C1-79-EMO-1970 dated 29.03.1972 over an extent of area 647.50 ha originally. The lease deed was executed on 18.10.1972 for a period of 30 years i.e., valid up to 18.10.2002. Further, Under Secretary, Commerce & Industries Department, Govt of Karnataka, Bangalore vide notification No.C1-218 MMM 2015 dated 14.08.2019, conveyed the extension of lease in favour of Kumaraswamy Iron Ore Mine (ML No: 1111) up to 17.10.2022 as per the provision of Section 8A (8) of MMDR Act 1957, read with rule 3(1) of the Mineral (Mining by Government) Rules, 2015 for an area of 639.80 ha. The lease area was reduced from 647.50 ha to 639.80 ha after CEC survey in the year 2012. PP has submitted that Ministry of Mines, Government of India published Mineral (Mining by Government Company Rules), 2015 vide a Gazette notification dated 03.12.2015 and subsequent amendment dated 27.09.2019. The rule 3(2) of Mineral (Mining by Government Company Rules), 2015 states that the State Government shall extend the period of mining lease for further period up to 20 years at a time when an application is made by Government Company at least 12 months prior to the expiry of mining lease. Hence, the Kumaraswamy Mining Lease (ML No 1111) is eligible for extension of lease from 18.10.2022 to 17.10.2042.

5. The Project Proponent submitted the Approval of '3<sup>rd</sup> Modifications to the 2<sup>nd</sup> approved Modified RMP' in respect of Kumaraswamy Iron Ore mine (ML. No 1111) over an area of 639.80 Ha (as per CEC Sketch) approved by IBM vide Lr.No: 279/290/91/BNG/927 dated 16.12.2019 for the balance period of 2020-21 to 2021-22 for total mineral reserves of 222.23 Million Tonnes of Iron Ore.

6. The Project Proponent submitted that the method of mining will be carried out by open cast mining method. At present, Mining operations are in progress in B and C blocks. The top most bench is 1072 MRL in pit no.2 of 'B' block and in pit no.1 of 'C' block. The lower most bench is 964 MRL at pit no.1 of 'B' block and 1006 m MRL in pit no.1 of 'C' block. Drilling is done by using 4" & 6" dia. drill machines for drilling of holes. Blasting is done by using cartridge slurry explosives and by site mixed emulsions. The blasted material is excavated by excavating machines of 1.2 m<sup>3</sup> & 4 m<sup>3</sup> bucket capacity and loader of 3m<sup>3</sup> & 8m<sup>3</sup> machines. The excavated material is loaded on the tippers of 25-35 tones and dumpers of 85-100 Tones capacity for transportation of the material



from mine face to crushing plant. The quantum of waste to be handled during the remaining life of mine is 87.22 MT. There are 2 active waste dumps located on each at B and C blocks encompass a total area of 7.87 Ha. At present, 05 no's of in-pit crushing/ screening plants of 450 TPH capacity are being utilized for screening and crushing of ore. All these plants consist of primary crusher integrated with secondary crushers and screening facilities. The products are loaded on the tippers by front end loaders of suitable capacity and the products are stacked in designated area. The final product is being dispatched to customers by tippers and allied weigh bridge operations and also through Rail. The low-grade ore is suitably mixed with high grade ore to achieve desired Fe percentage and supplied to the customers. The capacity expansion does not involve any increase in Mining Lease area. The capacity expansion shall be achieved by increasing the net utilization of mining machinery deployed for ore and waste excavation and in-pit crushing and screening and 1800 TPH crushing plant.

The Project Proponent reported that the presently, the iron ore dispatched from Kumaraswamy Mine is largely through established road transport system. Various customers bring their trucks to lift the e-auctioned ore stacked at mine head and the loaded iron ore in trucks are transported to the respective destination of customers through following three dedicated routes:

- a. Road-Rail through Swamihalli siding (road length 6 to 7 Kms from mine-head to railway siding and thereafter through rakes)
- b. Road-Rail through Ranjithpura siding (road length approximately 10 kms from mine head and thereafter through rakes)
- c. PWD Road to customer sites via Devagiri Donimalai route and via Nandihalli-Sandur Route.

7. The Project Proponent submitted that the mining operation are conducted at hill top which is at a higher-level than the ground water level. The ground water level will not be intersected during mining operations. Water requirement of Kumaraswamy Iron Ore Mine is met from Narihalla reservoir constructed by NMDC Limited. The maximum requirement of water for Kumaraswamy Project shall increase from 1150 m<sup>3</sup>/day to 1800 m<sup>3</sup>/day. Permission for withdrawal of 13.45 Cu.sec water from Narihalla Reservoir has been obtained from Water Resource Department, Gov. of Karnataka vide letter No. WRE 67 MTP 2013 dated 16.02.2017. The water requirement is being met from Narihalla dam through pumping in 2 stages viz. from Narihalla dam to Donimalai and Donimalai to Kumaraswamy hill top through a pipe line stretching up to 20 Kms. The water pumped to KIOM hill top is stored and distributed through the overhead tank having capacity of 727 cu.m.

8. The Project Proponent submitted that the 7.5m of mine periphery had been developed under plantation in the mine lease. Presently, 6.96 Ha has already been

afforested and at the conceptual stage a total of 14.03 Ha will be brought under Green belt. At conceptual stage total area afforested will be 147.5 Ha.

9. The Project Proponent submitted that the mining lease of 639.80 Ha comprises of 480.79 Ha forest land and 159.01 Ha revenue land as per CEC survey. Kumaraswamy Iron Ore Mine obtained Forest clearance for diversion of 341.20 Ha forest land (324.70 Ha within Lease area and 16.50 Ha outside lease area for conveyor system corridor, approach road to mine, power transmission line) from MOEF, New Delhi vide letter no: 8-27/2005-FC dated 24/7/2006. The forest area diverted under F.C. Act within M.L. area, after CEC survey, was reduced from 324.70 Ha to 321.78 Ha. Similarly, non-diverted Forest Land within M.L. area was reduced from 167.63 Ha to 159.01 Ha. NMDC has paid NPV charges of Rs.12.77 Cr on 22/08/2016 for retaining the remaining forest land of 159.01 Ha within lease area (as per CEC Survey) under section 2(iii) of F.C. Act, 1980 and as per guidelines issued by Forest Conservation Division, MOEF&CC vide letter no: 11- 599/2014-FC dated 1/4/2015. Thus, Kumaraswamy Iron Ore Mine has got Forest clearance under section 2(ii) for major part of the Forest Land and deemed approval under section 2(iii) of F.C. Act, 1980 for remaining forest land. The Ministry also accorded EC for the mining activities in 480.79 Ha (diverted forest area – 321.78 Ha & non-forest area – 159.01 Ha) vide letter dated 25.01.2021. At the time of Lease Deed execution, a joint survey, consisting of DMG, Forest, NMDC & Revenue officials, was conducted and there is no change in total mining lease area which remain same as 639.80Ha as per CEC survey. However, Forest Area within mining lease was increased to 487.01 Ha from 480.79 Ha. It was also established during the Joint Survey that diverted forest Land is 324.70 Ha (as per Forest Clearance) and un-diverted Forest Land 162.31 Ha within the mining lease. Thus, there is increase of 3.3 Ha in the un-diverted Forest Land within the Mining Lease area when comparing CEC Survey figures with that of the recent Joint Survey conducted. The break up of revenue and forest land is given as below: -

Details	As per Lease Grant (1972)	As per CEC survey (2012)	As per Lease Deed (2020)
Total Lease Area	647.50	639.80	639.80
Revenue area	155.17	159.01	152.79
Forest area	492.33	480.79	487.01
Break up of Forest Area as per FC Act			
Diverted under Section 2(ii) of FC Act	324.70	321.78	324.70
Un-diverted under FC Act	167.63	159.01	162.31

The Project Proponent also submitted that there is no National Park, Biosphere Reserve, Elephant Reserve, Elephant Corridor, Tiger Reserve, Wildlife Sanctuary, Habitat for Migratory Birds, Archaeological Site, Defence Installation or Airport within 10 km of the periphery of core zone.

10. The Project Proponent submitted that Kumaraswamy Iron Ore mine is an existing project and no additional area is required for capacity expansion and there is no rehabilitation and resettlement involved.

11. 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.

12. The Project Proponent submitted that the total cost of the project is Rs. 898.55 crores. PP also reported that the Kumaraswamy mine has employment of approximately 601 persons, out of which 159 nos. are departmental employees and balance 442 nos. are contractual workers to produce @ 7 MTPA. For achieving the annual production capacity of 10 MTPA the direct employment at Kumaraswamy shall go up to 675-700 persons.

13. The proposal for Terms of Reference (ToR) was considered before the Expert Appraisal Committee (Non Coal Mining) in its 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> - 26<sup>th</sup> February, 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 Kumaraswamy Iron Ore Mine [M.L.No.1111, M.L Area 480.79 Ha out of 639.80 Ha) (diverted forest area – 321.78 Ha & non-forest area – 159.01 Ha)], of M/s NMDC Ltd. for Capacity Expansion of total excavation from 8.6 MTPA to 16.25 MTPA (RoM Iron Ore from 7 MTPA to 10 MTPA and waste excavation from 1.6 MTPA to 6.25 MTPA) with 1800 TPH crushing and screening plant located at village Deogiri, Sandur Tehsil, Ballari Dist., Karnataka for undertaking detailed EIA/EMP study with the following specific conditions:-

- i. The Project Proponent needs to carry out the Public Hearing as per the provisions of EIA Notification, 2006.
- ii. The Project Proponent shall submit the certified EC compliance report and address the measures taken to comply the EC conditions.
- iii. The Project Proponent shall ensure that the plantation along the lease boundary and gap plantation complied as per EC conditions.
- iv. PP 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.

**1.5 Proposal for Terms of Reference for Proposed Mine (ML Area: 79.32 ha) of M/s Satish Kumar Garg & Company with Production Capacity Quartz: 0.14 MTPA, Feldspar: 0.52 MTPA, Barites: 0.001 MTPA, Quartzite & Stone (Road Metal & Masonry Stone): 8.42 MTPA & Soil: 1.0 MTPA, (Total Excavation: 10.081 MTPA) along with 4 Mobile Crushers with (4 x 300) TPH Capacity at Village: Musnota, Tehsil: Narnaul, District: Mahendragarh, Haryana - [Proposal no: IA/HR/MIN/197727/2021; File No. J-11015/14/2021-IA-II(M)] - Terms of Reference (ToR)**

The proposal of M/s Satish Kumar Garg & Company is for grant of Terms of Reference for Proposed Mine (ML Area: 79.32 ha) with Production Capacity Quartz: 0.14 MTPA, Feldspar: 0.52 MTPA, Barites: 0.001 MTPA, Quartzite & Stone (Road Metal & Masonry Stone): 8.42 MTPA & Soil: 1.0 MTPA, (Total Excavation: 10.081 MTPA) along with 4 Mobile Crushers with (4 x 300) TPH Capacity at Village: Musnota, Tehsil: Narnaul, District: Mahendragarh, Haryana. The mine lease area falls under the Survey of India Toposheet No G43E1, H43W4 & G43D13 and bounded by latitude: 27°51'56.85" N to 27°52'27.02" N and longitude 76°01'06.56"E to 76°01' 43.23" E and falls under Seismic Zone-III.

2. As per EIA Notification dated 14<sup>th</sup> Sept, 2006 and its subsequent amendments, the project falls under Project Activity 1 (a) "Mining of Minerals" and Category "A" as the interstate boundary of Haryana-Rajasthan state boundary (~3.0 km, S) from the lease boundary.

3. The proposal was previously considered in the EAC meeting held on 20-21 February, 2019 but due to some unavoidable circumstances the proponent could not attend the meeting; request letter was submitted for the same on 19th Feb., 2019. The Committee therefore, deferred the proposal stating that proposal may be considered only after PP submits the requisite information (ADS). The PP vide letter dated 16.04.2019 submitted the requisite information (ADS Reply). Then, the proposal was again placed in EAC meeting held on 30-31 July, 2019. But at that time also due to some unavoidable reasons the proponent could not attend the meeting The Committee observed that as reported by PP the Hon'ble Punjab and Haryana High Court vide order dated 8.4.2019 in the matter of Satish Kumar Garg vs State of Haryana (CWP no. 4450 of 2019) has directed Ministry of Environment and Forest to consider the grant of environment clearance to the petitioner and decide the matter at hand, as expeditiously as possible preferably within a period of six weeks from the date of receipt of certified copy of the order. The Committee observed that in order to comply with the direction of

Hon'ble High Court the Ministry has already placed the proposal in the EAC meeting but PP did not attend the meeting. The Committee therefore deferred the proposal and is of the view that proposal may be placed in the next EAC meeting after receiving the request from the PP. Thereafter, the proposal was delisted from the PARIVESH portal. Now, the Project Proponent again applied online vide proposal no: IA/HR/MIN/197727/2021 dated 11.02.2021 for grant of Terms of Reference and submitted the Form-1 & Pre-Feasibility Report and the proposal was considered in the 28<sup>th</sup> EAC meeting held during 24<sup>th</sup>-26<sup>th</sup> February, 2021.

4. The Project Proponent submitted that the mining lease deed executed on 29.04.2002 for Barites, Feldspar and Quartz for a period of 20 years. Further, Mines and Geology Department, Haryana has added Associated Minor Minerals (Quartzite & Stone) vide Memo no. Glg/Hy/E-2625/4245, dated 29.08.2018 and lease period is deemed to have been extended for 50 years from 29.04.2002 to 28.04.2052. Supplementary lease deed for Associated Minor Minerals (Quartzite & Stone) has been executed dated 14.03.2019. On execution of the Supplementary Lease Deed, M/s. Satish Kumar Garg & Company will be holding mining lease for excavation of "Quartz, Feldspar, Barites, Quartzite & Stone" the minor minerals.

5. The Project Proponent submitted that the Modified Mining Plan & Progressive Mine Closure Plan in respect of Musnota Quartz, Feldspar, Barites, Associated Minor Minerals Quartzite mine over an area of 79.32 ha has been approved by Department of Mines and Geology, Haryana, Panchkula vide Memo no. DMG/HY/MP/Musnota/415-418, dated 02.02.2021.

6. The Project Proponent submitted that the mining will be carried out with mechanized opencast method utilizing Heavy Earth Moving Equipment (HEMM) in conjunction with deep hole drilling by crawler mounted DTH drills and blasting. Bench height 9 m and bench width will be kept 15-20 m. The mining method involves breaking the rocks with explosives, loading the material with excavators. It is proposed to load in the trucks/dumpers directly to the destinations and mineral is not usually put up in this stack yard to avoid the double handling. Deep hole blasting is envisaged with explosives Emulsion primer charge (20%) and Ammonium Nitrate Fuel Oil or slurry explosive (column charge 80%) per hole will be used and Powder factor of 8 tonnes/kg will be considered. PP also reported that the Total Excavation will be 10.081 MTPA of Production Capacity; Quartz: 0.14 MTPA, Feldspar: 0.52 MTPA, Barites: 0.001 MTPA, Quartzite & Stone (Road Metal & Masonry Stone): 8.42 MTPA & Soil: 1.0 MTPA, along with 4 Mobile Crushers with (4 x 300) TPH Capacity. The excavated mineral will be supplied to nearby crusher owners located in and around Narnaul and Dholera area. However, 4 numbers of mobile crushing/Screening units on working benches of the mines and substantial quantity of road metal and masonry stone shall be crushed in

mine itself. The Project Proponent also submitted the letter from District Mining Officer vide no. 1396 dated Narnaul dated 06.02.2019 that there is no mine within the radius of 500m.

7. The Project Proponent submitted that the Nearest habitation is Musnota village (~ 600m, NE), Govt. Primary School is Bhuja Phachli at (~800m, NE) and Nearest State Highway is 37 B (~9.0 km, S).

8. The Project Proponent submitted that the total water required for the proposed project is about 173 KLD which will be sourced from Ground Water & from Mine Sump as and when developed. Ground Water will be sourced after taking the prior approval.

9. The Project Proponent submitted that the total mining lease area is 79.32 ha which is Govt. Land. Greenbelt will be developed along the 7.5m of the lease periphery covering 2.81 ha area. Bench plantation will be carried out covering 23.36 ha area. Thus, total greenbelt/plantation will be developed on 26.17 ha area. Local and fruit bearing species will be planted after consultation with local forest officer and as per CPCB Guideline. Density of plantation would be 2500 trees/ha.

10. The Project Proponent submitted that there is no Forest land within the lease area. PP also reported that One Reserved Forest at (~3.0km, NW) and Protected Forest viz. Kharjo PF, Mina Ka Nangal PF, Dokan PF, Patan PF, Balupura PF, Baneti PF, Balupura PF & Bhopiya PF exists in the study area. PP submitted the No Objection Certificate (NOC) issued by Dy. Conservator of Forests, Mahendergarh vide no. 1004 dated 16.09.2002 that village Musnota is not a forest land vide Haryana Notification no. S.O 113/P.A2/1900/S4/3/97 dated 17.11.1997, proposed mining area in Musnota village falls in the purview of Section 4 of Punjab Land Preservation Act. PP also submitted the letter bearing no. 3223 dated 28.10.2016, the office of Dy. Conservator of Forests, Mahendergarh declined to issue No Objection Certificate (NOC) for the purposes of undertaking mining in areas falling under Khasara No. 599, 600, 601 and 626, 627, 648 and 649 in village Munsota on the ground that 'the stated Khasara Nos are included in the list of Aravali Plantation.

11. The Project Proponent submitted that Primary survey is being done considering Baseline Study Period (Dec., 2020 to Feb., 2021) and if there is any schedule I species will be found then wildlife conservation plan for the same will be submitted along with the Final EIA/EMP Report. The Project Proponent further submitted that there is no National Park, Wild Life Sanctuaries, Biosphere Reserves, Tiger Reserves, Wildlife Corridors Eco-Sensitive Zone (ESZ) within the 10 km radius of study area.

12. The Project Proponent submitted that total lease area is 79.32 ha which is Govt. Land. Hence, R & R is not applicable.

13. The Project Proponent submitted that the Lessee & Company challenged the order /letter of DFO, Mahendragarh in Hon'ble Punjab and Haryana High Court through CWP no. 2682 of 2018 (Satish Kumar Garg vs. State of Haryana). The High Court Judgment dated 26.04.2018 permitting mining on the leased area of 79.32 ha. Forest Dept issued a letter in compliance of the order dated 26.04.2018, the DFO Mahendragarh vide order dated 21.06.2018 clarified that previous letter dated 28.10.2016 from DFO Mahendragarh (wherein mentioned that lease is located on Aravalli plantation) stands rescinded. In Hon'ble Punjab and Haryana High Court vide order dated 08.04.2019 in the matter of Satish Kumar Garg vs State of Haryana (CWP No. 4450 of 2019) has directed MoEF&CC to consider the grant of EC to the petitioner and decide the matter at hand, as expeditiously as possible preferably within a period of six weeks from the date of receipt of certified copy of the order. The special leave petition filed against order dated 26.04.2018 and same has been dismissed as withdrawn from Supreme Court of India.

14. The Project Proponent submitted the Affidavit dated 10.02.2021 that the mining would be done strictly in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.

15. The Project Proponent submitted that the total cost of the project is Rs. 20 crores. The employment generated by this project will be about 264 persons.

16. The proposal for Terms of Reference (ToR) was considered before the Expert Appraisal Committee (Non Coal Mining) in its 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> - 26<sup>th</sup> February, 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 proposed Mine (ML Area: 79.32 ha) of M/s Satish Kumar Garg & Company with Production Capacity Quartz: 0.14 MTPA, Feldspar: 0.52 MTPA, Barites: 0.001 MTPA, Quartzite & Stone (Road Metal & Masonry Stone): 8.42 MTPA & Soil: 1.0 MTPA, (Total Excavation: 10.081 MTPA) along with 4 Mobile Crushers with (4 x 300) TPH Capacity at Village: Musnota, Tehsil: Narnaul, District: Mahendragarh, Haryana for undertaking detailed EIA/EMP study with the following specific conditions:-

- i. The Project Proponent needs to locate the monitoring locations which are sensitive and close to habitation with proper design in the EIA report. The Project Proponent shall fix the monitoring stations in the downwind direction treating the

area as sensitive because of vicinity of Aravalli ranges and should be addressed adequately through the EMP measures to restrict any potential impact of mining activity in the Aravali ranges.

- ii. The Project Proponent shall address the impact of transportation up to the crusher and from the crusher to the destinations and propose adequate mitigation measures accordingly in the EIA/EMP report.
- iii. Environment Monitoring Plan in the vicinity of the mobile crushers should also be addressed in the EIA report by the Project Proponent.
- iv. The Project Proponent shall submit the District Survey Report (DSR) as per Ministry's notification S.O 3611 (E) dated 25th July, 2018
- v. The Project Proponent shall submit the NOC from CGWA for withdrawal of ground water at the time of appraisal of EC.
- vi. PP 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.



**DAY-2 (25.02.2021)**

**2.1: Proposal for Environmental Clearance (EC) under S.O. 1530 dated 06<sup>th</sup> April, 2018 for dump access in the 10 Ha with manganese production 50 TPD and to set-up screening plant with a handling capacity of 40 MT/hour powered by Diesel Generator from manual to screening Garbham Manganese Ore Mine of M/s Rashtriya Ispat Nigam Limited (264.540 Ha, 50 TPD/18000 TPA) at Village Garbham, Tehsil Merakamudldam in District Vizianagaram in Andhra Pradesh - [Proposal no: IA/AP/MIN/180932/2020; File No. J-11015/60/2020-IA.II(M)] - Environmental Clearance (EC) under S.O. 1530 dated 06<sup>th</sup> April, 2018**

The Proposal of M/s Rashtriya Ispat Nigam Limited is for grant of Environmental Clearance (EC) under S.O. 1530 dated 06<sup>th</sup> April, 2018 for dump access in the 10 Ha with manganese production 50 TPD and to set-up screening plant with a handling capacity of 40 MT/hour powered by Diesel Generator from manual to screening for Garbham Manganese Ore Mine at Village Garbham, Tehsil Merakamudldam in District Vizianagaram in Andhra Pradesh (264.540 Ha. 50 TPD/ 18000 TPA). The mine lease area falls under the Survey of India Toposheet No 65 N/7 & 65 N/11 and bounded by latitude 18°22'15"N to 18°23'05"N and longitude 83°26'24"E to 83°28'03"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 or Activity 1(a) as the mining lease area is greater than 100 ha.

3. The Project Proponent submitted that the environmental clearance was granted by MoEF&CC vide letter no. J-11015/375/2005-IA.II (M) dated 04.10.2006 with a general condition no. B (i) "*No change in mining technology and scope of working shall be made without prior approval of Ministry of Environment & Forest.*" PP vide its Proposal No. IA/AP/MIN/11447/2006 dated 11.11.2016 has applied for amendment in EC w.r.t. the above-mentioned general condition B (i) for change in technology. The PP has mentioned that the modernization through mechanized screening would bring down the demand supply gap. Hence it is proposed to set-up screening plant with a handling capacity of 40 MT/hour powered by Diesel Generator set. The proposal was earlier placed in the EAC meeting held during 23<sup>rd</sup>-25<sup>th</sup> November, 2016 wherein the Committee deferred the proposal for want of requisite information. The PP submitted the requisite information online on 30.07.2020 and the proposal was placed in EAC meeting held during 19-21 August, 2020 wherein Committee observed that the EC granted in this case was granted under EIA Notification 1994 and PP was required to apply as per provision of S.O. 1530(E) dated 06.04.2018. The Committee is of the view that if PP would have submitted the information on time the amendment in EC was granted under EIA 2006 and PP is not required to apply as per S.O. 1530(E). PP

informed the Committee the delay in reply to the ADS is due to delay in preparation and approval of the modified mining plan & preparation of impact study for DG Set. The Committee is of the view that EC is no more valid the amendment in the same could not be granted at this stage, however as the proposal was already under consideration in the Ministry, before the issuance of S.O. 1530(E) dated 06.04.2018, the PP may be allowed for lateral entry, under S.O. 1530(E) dated 06.04.2018, to apply in Form-1 for grant of ToR. The Committee therefore returned the proposal in present form and asked the PP to apply afresh in Form-1 for obtaining EC as per provision of S.O. 1530 (E) dated 06.4.2018. PP applied online vide proposal no. IA/AP/MIN/180932/2020 Dated 13.11.2020 and the proposal was placed in the EAC meeting held on 09.12.2020 wherein the Committee recommended the proposal for grant of ToR to only dump access in the 10 Ha area with manganese production 50 TPD and to set-up screening plant with a handling capacity of 40 MT/hour powered by Diesel Generator set only change in will be from manual to screening at Garbham Manganese Ore Mine of M/s Rashtriya Ispat Nigam Limited at Village Garbham, Tehsil Merakamuddam in District Vizianagaram in Andhra Pradesh as per S.O. 1530(E) dated 06.04.2018 for undertaking detailed EIA/EMP study. The Ministry granted ToR vide letter No. J-11015/60/2020-IA.II (M) dated 31.12.2020 in the name of M/s Rashtriya Ispat Nigam Limited. Then, PP applied for Environmental Clearance vide online proposal no. IA/AP/MIN/180932/2020 on 10.02.2021 and submitted the Form 2 and EIA report. The proposal was considered in 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> -26<sup>th</sup> February, 2021.

4. The Project Proponent submitted that the Lessee i.e. M/s. Rashtriya Ispat Nigam Limited, Visakhapatnam Steel Plant has been granted mining lease for the Garbham Manganese Mine for a period of 20 years over an extent of 264.54 Ha (653.690 Acres) in Sy.No. 251,253,254,255 & 257(P), 87 to 107, 109 to 120 etc. of Garbham Village of Merakamudidam Mandal, Vizianagaram District vide G.O. Ms. No. 491 is related to Central Garbham and 625 is for East & West Garbham, together 264.54 Ha of Industries & Commerce Department, Govt. of A.P. dated 07.08.1982 for a period of 20 years. Later on, Central, East & West Garbham leases were amalgamated and first renewal of mining lease was granted vide G.O. Ms. No. 214 of Industries & Commerce department, Govt. of A.P. dated 08.08.2008 for a period of 20 years and the lease is valid up to 07.10.2022.

5. The Project Proponent submitted that the five-year period of scheme of mining was submitted and approved for the period 2013-14 to 2017-18 vide letter no AP/VZNR/MS/Mn-265-SZ/2049 dt: 05.12.2013 which was valid up to 31<sup>st</sup> March 2018. The present review of mining plan is submitted under rule no 17(2) MCR 2016 for the period of 2018-19 till the mining lease validity period i.e., 07.10.2022 and IBM Regional office at Hyderabad approved the review of mining plan vide letter No: AP/VZNR/MP/Mn-81/HYD, dated 21.02.2018.

6. The Project Proponent submitted that total reserves & resources is 12,49,987 T; Reserves in existing dump is 3,88,987 T (111) and annual production is proposed 18000 TPA. The mine will work in one shift i.e. general shift for 365 days in a year therefore the life of mine will be 21.61 years say 22 years. PP submitted that the mining will be carried out in the existing dump by open cast method by deploying shovel and dumper combination for excavation as per the production plan. Benches are proposed to develop at a height of 4 m and 12 m width. The total height of the dump is about 20 m. The no. of working benches will be 4 in the plan period. There is no drilling and blasting envisaged as the dump material is friable in nature and can be easily excavated with shovel. The benches are connected through ramps of 1:16 gradient for smooth haulage of dumpers and other HEMM. The lump and fines are segregated from the ROM by deploying manual screening and sizing for existing CFO capacity of 18000 TPA (50 TPD). To meet the additional lump requirement, it is proposed to introduce a mechanized screening facility of 40 TPH capacity. The mechanization of screening is proposed for scientific mining, environmental protection and mineral conservation. A detailed study is conducted for suitable location of the screening & dust suppression facility at mine. To carry out the mining operations as per the production plan the HEMM and double deck screening system will be deployed. The ROM from the benches as per the production plan on daily basis will be excavated and transported to feed the screening plant for segregation of lump and fines. The oversize lump ore will be sized manually as per the requirement of RINL-VSP. PP informed that the Mineral Beneficiation plant is not proposed and hence, mineral beneficiation is not applicable in the instant proposal.

7. The Project Proponent submitted that nearest Village is Garbham village adjacent to the Central Garbham mine towards south.

8. The Project Proponent submitted that the no ground water intersection is envisaged and total water requirement for the proposed project will be 17.0 KLD out of which the water requirement of 1.0 KLD for domestic usage is met through existing bore well within the lease area. PP submitted that 6.0 KLD will be required for dust suppression and 10.0 KLD for which the water present in the existing old pits shall be utilized. PP submitted that NOC has been obtained from Tahsildar vide Rc No. 1/2021/JA dated 06.01.2021. PP also submitted that total waste water generation will be 0.6 KLD which will be treated through septic tank followed by soak pit.

9. The Project Proponent submitted that area covered by plantation is 6.33 hectares of the lease hold area. Hence, most of the vacant lands in the government area of the mining lease is afforested. In addition to the existing greenbelt, 2200 plants will be planted over an area of 2.0 ha within the lease area with preference to locally adapted species.

10. The Project Proponent submitted that there is no involvement of forest land in the project area. PP also submitted a letter issued from Office of the District Forest Officer, Vizianagaram stating that there is no National Park, Protected area or Wildlife Sanctuary situated within 10 KM of lease area and the nearest Wildlife sanctuary from mine is Kambalakonda Wild life sanctuary which is more than 50 kms. PP also submitted that proposal does not involve approval/clearance under the C.R.Z notification, 2011.

11. The Project Proponent submitted there is no schedule I species found in the study area.

12. The Project Proponent submitted that baseline study was carried out during October 2020 to December 2020 for micro-meteorological data, ambient air quality, water quality, noise level, geology, hydrology, biological environment, land environment soil quality, and socio – economic status surrounding the project site. The predominant wind direction is from East- West direction. The concentrations of PM<sub>10</sub> and PM<sub>2.5</sub> for all the 8 AAQM stations were found between 19.0 µg/m<sup>3</sup> to 70.2 µg/m<sup>3</sup> and 9.8 µg/m<sup>3</sup> to 34.2 µg/m<sup>3</sup> respectively. The concentrations of SO<sub>2</sub> and NO<sub>2</sub> were found to be in range of 4.1 µg/m<sup>3</sup> to 13.5 µg/m<sup>3</sup> and 6.2 µg/m<sup>3</sup> to 15.7 µg/m<sup>3</sup> respectively. PP also submitted that results indicate that the ambient air quality in the study area well within the prescribed limits of CPCB. Ambient noise levels were measured at 8 locations in and around the mine site and varied from 53.8 to 57.7 Leq dB(A) during day time and from 42.5 to 47.2 Leq dB(A) during night time. The water in the region (surface water) has been compared with respect to the Drinking water Quality Standards as IS: 10500 and IS: 2296. pH of the surface water collected was neutral with pH ranging from 7.1 - 7.4, TDS was found to be 196mg/l to 229mg/l. The tolerance limit of 1,500 mg/l as per IS:2296, Total hardness was found to be 113mg/l to 134mg/l, Presence of Nitrate was recorded as 0.22mg/l to 0.36mg/l, DO was observed as 5.5mg/l to 6.3mg/l, Total coliforms in water was 660MPN/100ml to 710MPN/100ml. The likely source of bacteriological contamination was due to the proximity to residential area, all the heavy metals were found to be within below detectable limits. Results for pH, TDS, chloride, hardness, fluoride and heavy metals observed to be within the permissible limits of IS: 10500 Drinking Water Standards. The analysis results of soil shows that soils in the region are average fertile enough for cultivation of crops.

13. The Project Proponent submitted that since the proposal is reviewed under S.O 1530(E) dated 06.04.2018, repeated public hearing is not required as there is neither change in production nor any change in mining methodology as per Terms of Reference F. No: J-11015/60/2020-IA.II (M) dated 31.12.2020.

14. The Project Proponent submitted that out of total mine lease area 264.54 Ha; 143.33 Ha is Government wasteland and Pvt. & agriculture land is 121.21 Ha. PP submitted that only 46.22 Ha is the broken area, which consists of the existing old

dumps and allied infrastructure, and remaining 218.32 Ha is of agriculture lands and greenbelt. The present and proposed workings are restricted to old dump spread over an area of 10.00 Ha of Govt. Waste Land. No mining is proposed from in-situ and an area of 11.84 Ha covered by 2 no of pits will remain same. PP has submitted that no human settlements exist in the M.L. area and no humans have been displaced from the area so the project does not involve any rehabilitation and resettlement.

15. The Project Proponent submitted the Certified EC Compliance report issued by the Andhra Pradesh Pollution Control Board vide Lr.No.PCB/ROVZ/Tech/2021-76 dated 02.02.2021. PP also submitted the Consent to Operate issued by the Andhra Pradesh Pollution Control Board vide Consent order No. 9059-VZN/APP/PCB/ZOVSP/CFO/2016 dated 26.09.2016 and is valid up to 31.12.2021.

16. The Project Proponent submitted that there is no any Court Cases pending against the project.

17. The Project Proponent submitted that the total capital cost of the project is Rs. 150 Lakhs and capital cost of Environment Management Plan is Rs. 9.4 Lakh and recurring cost is Rs. 5.65 Lakh/Annum. PP reported that currently the mine is providing employment for a total of approximately 24 persons including skilled as well as semi-skilled staff directly and will contribute to indirect employment scope for 10 persons benefiting to local people.

18. The proposal for Environmental Clearance (EC) was considered before the Expert Appraisal Committee (Non Coal Mining) in its 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> - 26<sup>th</sup> February, 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 under Ministry's Notification S.O. 1530 dated 06<sup>th</sup> April, 2018 for dump access in the 10 Ha with manganese production 50 TPD and to set-up screening plant with a handling capacity of 40 MT/hour powered by Diesel Generator from manual to screening for Garbham Manganese Ore Mine of M/s Rashtriya Ispat Nigam Limited (264.540 Ha, 50 TPD/18000 TPA) at Village Garbham, Tehsil Merakamuddam, District Vizianagaram in Andhra Pradesh with the following specific conditions in addition to the standard conditions applicable for non- coal mining projects.:-

- i. The Project Proponent shall undertake the adequate plantation in peripheral zone and three tier avenue plantation with at least 90% survival rate to control the dust at source.

- ii. The Project Proponent shall ensure that adequate safety measures adopted by the employees engaged in mining operations and every employee shall wear mask within the mine premises so as to avoid dust inhalation.
- iii. As the mine lease is valid up to 07.10.2022, Environmental Clearance (EC) shall be valid up to the lease period only.
- iv. The Project Proponent shall undertake quarterly health check up of the employees engaged in mining operations and shall conduct regular health camps for the public nearby.
- v. The Project Proponent shall undertake the adequate control measures to control the noise level within the mining lease boundary.

**2.2: Proposal for Environmental Clearance (EC) for Nuagoan Iron ore mine of M/s JSW Steel Limited for expansion in Iron Ore production from 5.62 Million TPA to 7.99 Million TPA (ROM), MLA 767.284 Ha, along with existing 2.0 Million TPA Beneficiation plant and Crusher and Screen Plants located in the village(s) of Nuagon, Guali, Topadihi, Barapada and Katasahi, Tehsil-Barbil, Keonjhar District, Odisha - [Proposal no: IA/OR/MIN/7226/2007; File No. J-11015/1156/2007-IA.II(M)] – Environmental Clearance (Auction mine)**

The Proposal of M/s JSW Steel Limited is for grant of Environmental Clearance (EC) for Nuagoan Iron ore mine for expansion in Iron Ore production from 5.62 Million TPA to 7.99 Million TPA (ROM), MLA 767.284 Ha, along with existing 2.0 Million TPA Beneficiation plant and Crusher and Screen Plants located in the village(s) of Nuagon, Guali, Topadihi, Barapada and Katasahi, Tehsil-Barbil, Keonjhar District, Odisha. The mine lease area falls under the Survey of India Toposheet No 73 G/5 and bounded by latitude 21°57'11.09"N to 21°59'34.32"N and longitude 85°16' 6.04" to 85° 19' 24.93" and falls in Seismic Zone-II.

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

3. The Project Proponent submitted that the proposal for Terms of Reference was submitted vide proposal no: IA/OR/MIN/75586/2018 dated 26.06.2018 and was considered in the EAC meeting held during September 28-29, 2018 wherein the Committee prescribed the Terms of Reference and the Ministry accorded TOR on 12.10.2018 in the name of M/s Kamaljeet Singh Ahluwalia. The Public Hearing was conducted on 08.03.2019 in the name of M/s Kamaljeet Singh Ahluwalia. Then, PP applied for Environmental Clearance vide online proposal no: IA/OR/MIN/103155/2018 dated 30.04.2019 and the proposal was considered in the 7<sup>th</sup>

EAC Meeting held during July 30-31, 2019 and *the committee recommended to return the proposal in present form, and requested the PP to submit the recommended study report as requested in 2nd EAC, Feb 20-21, 2019 as well as the proposal for consideration after the matter pending before the Hon'ble High Court of Odisha is disposed.* In the meantime M/s JSW Steel Ltd has emerged as the preferred bidder in the auction process and PP applied for Transfer of Terms of Reference vide proposal no: IA/OR/MIN/164100/2020 dated 18.07.2020 and the Ministry accorded TOR in the name of M/s JSW Steel Limited on 20.08.2020. Thereafter, PP applied for Environmental Clearance in the name of M/s JSW Steel Ltd vide online proposal no: IA/OR/MIN/7226/2007 dated 31.08.2020 and submitted the Form2 and EIA report after conducting the Public Hearing. The Ministry examined the proposal and sought EDS on 05.10.2020 to submit the *i. Mine plan in the name of M/s JSW, ii. EIA report and other corresponding letters shall submit in the name of JSW and iii. Total forest land involved in the Mine lease area and its status.* PP submitted the reply to EDS vide letter No. JSW/S/O/2020/396 dated 24.10.2020. Then, Ministry again sought EDS on 10.11.2020 that the EDS raised earlier has not been replied properly. PP submitted the reply to EDS vide letter No. JSW/S/O/2021/39 dated 11.02.2021 and the proposal was considered in 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> -26<sup>th</sup> February, 2021.

4. The proposal for Environmental Clearance (EC) was considered before the Expert Appraisal Committee (Non Coal Mining) in its 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> - 26<sup>th</sup> February, 2021. During the presentation the Committee noted that the ToR dated 12.10.2018 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 and submitted the EIA/EMP and other corresponding letters/clearances in the name of earlier PP; also the instant matter pending before the Hon'ble High Court of Odisha. PP has submitted the incomplete proposal. Therefore, the Committee **returned the proposal in the present form** and is of the view that after the disposal of the court case the Project Proponent shall apply a fresh without change in scope for which Public Hearing was conducted with the following information: -

- i. The Project Proponent needs to submit the revised Form-2 including 2(b) Mineral Beneficiation.
- ii. The Project Proponent needs to submit the EIA report and other corresponding letters/clearances in the name of M/s JSW Steel Limited.
- iii. The Project Proponent shall submit the present state of mine including primary environmental baseline data in order to assess the status and level of environmental compliance while transfer of lease. The Project Proponent must

show any non-compliance of earlier EC by previous occupier so that the same can be considered at the time of appraisal for grant of Environmental Clearance.

- iv. The PP should also include damage assessment due to such noncompliance as one of the activities. In absence of such disclosure by PP, any subsequent identification of environmental non-compliance would be liability of new PP. The information to be submitted may be related to, but not limited to:
  - a. Compliance of mining plan, including waste and OB dump management, mine closure plan etc.
  - b. Compliance to Common cause judgment
  - c. Status of R&R
  - d. Compliance of plantation
  - e. Compliance of public hearing issues
  - f. Status of complaints/ court cases/legal action
  - g. Compliance of specific conditions of earlier EC
- v. MoEF&CC RO office shall preferably conduct visit of each of such mine lease/s where e-auction have been conducted to document the compliance status of existing EC at such leases, at earliest.
- vi. New lessee shall take possession of all records and documents related to EC and consent form the earlier lessee, including EIA reports, EC, consent, correspondence with MOEFCC and SPCB/CPCB etc.
- vii. The new lessee shall provide the NRSC certified imaginary of the project site, depicting the real status of land use, canopy coverage, level of plantation, land degradation etc., one at the time of taking possession of lease and second after 6 - 12 months to assess changes effected by present occupier.

**2.3: Proposal for Terms of Reference for Koni–Simariya Limestone Block of M/s Jaykaycem (Central) Limited over an area of 3095.23 hectares with total excavation of 9.05 Million TPA (Lime Stone: 5.08 MTPA; Soil: 2.94 MTPA and OB: 1.03 MTPA) with Crusher capacity - 1800 TPH, located in Village(s) - Koni, Boda, Gudha, Maharajganj, Ganiyari, Vanbhai, Simariya, Devri, Pagra & Kuluwa, Tehsil Simariya, District Panna, Madhya Pradesh [Proposal No: IA/MP/MIN/189768/2020, File. No: J-11015/80/2020-IA-II(M)] – Terms of Reference (TOR)**

The proposal of M/s Jaykaycem (Central) Limited is for Terms of Reference for total excavation of 9.05 Million TPA (Lime Stone: 5.08 MTPA; Soil: 2.94 MTPA and OB: 1.03 MTPA) with crusher capacity of 1800 TPH of Koni– Simariya Limestone Block over an area of 3095.23 Ha, located in Village(s) - Koni, Boda, Gudha, Maharajganj,



Ganiyari, Vanbhai, Simariya, Devri, Pagra & Kuluwa, Tehsil Simariya, District Panna in State of Madhya Pradesh. The mine lease area falls under the Survey of India Toposheet No 54P/11, 54P/12, 54P/15, 54P/16, 63D/3 & 63D/4 and bounded by latitude 24°19'12.36" N to 24°16'28.80" N and longitude 79°50'20.74" E to 79°56'58.88" E and falls in Seismic zone-II.

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 is Category "A" project.

3. The project proponent applied online for grant of Terms of Reference (ToR) vide proposal no. IA/MP/MIN/189768/2020 dated 24.12.2020 and submitted Form-1 & Pre-Feasibility Report and the proposal was considered in the 26th EAC meeting held during 11-13<sup>th</sup> January, 2021 wherein the Committee deferred the proposal for want of additional information. Project Proponent submitted the information vide letter no. SM/EMD/MoEFCC/ F01/ 003 dated 29.01.2021 and the proposal was placed in the 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> -26<sup>th</sup> February 2021.

4. The information sought by the Committee in the 26th EAC Meeting held during 11-13th January, 2021 and the reply submitted by Project Proponent vide letter no. SM/EMD/MoEFCC/ F01/ 003 dated 29.01.2021 are as follows:

S. No	Queries	Reply
1.	In view of the prime agricultural land proposed under mining lease area, the project proponent needs to submit the Cost Benefit analysis comparing the current agricultural production and annual turnover including the cost and the benefits drawn by the local villages via-a-viz the mineral cost and beneficiaries.	Project Proponent submitted that out of the total LSM (limestone mining) area 3095.23 hect, is double crop irrigated land is 155.452 (5.02%), single crop/un irrigated land is 2386.265 hect (77.09%) and rest of the land parcel is categorized as govt. land/private. The agriculture yield is Rs. 1,01,861 Ha/ Year and Mineral yield is Rs. 929019.4367 Ha/ Year royalty. The Mineral versus agriculture ratio is approximate 9:1. The mining will generate the revenue for the Government. for Rs. 105.6 in the heads of Royalty, District Mineral Funds, and National Mineral Exploration Fund, in turn Rs. 2,65147 Hact./ Year.

<p>2.</p>	<p>Topsoil generation is 2.94 MTPA and hence the PP needs to include the cost of the soil and loss of nature in the Cost Benefit analysis. PP should also submit the details of utilization and storage of top soil in the mining lease area.</p>	<p>Project Proponent submitted that 2.94 Million TPA is the quantity including of top soil and alluvium or sub-soil will be scrapped off and stacked separately to see the top soil is conserved and progressive re-utilization will be done.</p> <p>The area has major litho unit as sub-soil / alluvium cover, for avg. 2-16m. Alluvium or sub-Soil will be stacked as soil dump proposed at 0.6 KM west, from the first five year working face and will be used for backfilling the excavated area to develop grass land and plantation. The proposed dump will be temporary in nature.</p> <p>Top soil cover is 0.25 m(0.43 Million ton) which will be removed by excavation and stacked separately and will be used for plantation all along the ML boundary, Village, Road and Nalla.</p> <p>Thus, there will be negligible loss of top soil in the LSM area, thus the cost towards the same has not been included in the CBA.</p>
<p>3.</p>	<p>The Project Proponent needs to submit the land acquisition procedure to be adopted and resettlement proposal to compensate the land.</p>	<p>Project Proponent submitted that as the mine is progressive, the land will be purchased in phased manner with mutual negotiation in sync with applicable legislation and consent from land owners. Detailed R&amp; R will be submitted in the EIA/EMP.</p>

4.	Comprehensive R&R plan addressing the benefits to the farmers, villagers and livelihoods of the people whose land is to be acquired need to be submitted by the PP.	<p>Project Proponent submitted that as per the cost benefit analysis, farmers will get the negotiated cost for land and they will get interest on Bank/Post office deposits or can purchase land to meet the livelihood. The project will also generate direct and indirect employment and auxiliary businesses in the area for better socio-economic development.</p> <p>However, land will be acquired in phased manner as the mine working progress and will not affect the agricultural integrity of the area in one go.</p> <p>However, detailed R&amp;R plan will be submitted as part of compliance to the TOR and will be addressed in EIA/EMP Report for Environment Appraisal.</p>
5.	The Project Proponent needs to submit the segment wise progressive surface plan in the proposed lease area.	Project Proponent submitted that the life of mine is 128 years and the proposed mining will be executed in phase wise manner. A plan of 130 years i.e. of five year interval plan for 26 times is proposed.
6.	The Project Proponent needs to submit the plan to address the current hydrogeology and the likely change of hydrogeology within the mining lease area due to mining.	<p>Project Proponent submitted the following”</p> <ul style="list-style-type: none"> <li>i. There are seasonal nallas present in the ML area and the same is granted after deduction of all seasonal nallas with safety zones. River Sonar &amp; River Ken are the main drainage features that flow in the northwest-west and north-east respectively outside the area. The ground water table is about 15 to 20 m below the surface level.</li> <li>ii. The area is almost flat with gentle slope towards the west. A substantial part of rainfall in the area drains through small streamlets in to the seasonal nallas which joins the Ken River near village Boda and to Sonar River near Koni &amp; Pagra villages.</li> <li>iii. The five year working and conceptual working is proposed to be done up to an average depth of about 50-55m below the</li> </ul>

		<p>surface level.</p> <p>iv. As such there is a possibility of seepage of ground water during the rainy season. This water will be pumped out in to the settling tank, and after allowing the silt to settle, it will be used for mining activities and recharge the ground water table.</p> <p>v. Since the depth of mineralization and conceptual depth will be more than ground water table. Detailed hydro-geological study report will be submitted as part of EIA/EMP.</p>
7.	The Project Proponent needs to submit the map showing drainage and mineral zone in the study area with proper demarcation indicating the segments where mining will be carried out.	<p>Project Proponent submitted the following:</p> <p>i. The detailed hydro-geological report including drainage map and mineral zone in the study area will be given in EIA/EMP Report for Environment Appraisal.</p> <p>ii. However, map showing drainage including the nallas in the lease area and mineral zone along with the areas where mining will be commenced till conceptual stage</p>
8.	The Project Proponent needs to submit the measures taken for abatement of pollution due to mining activity in the nearby school, temple and water bodies.	<p>Control measures:</p> <p>i. Mining will be carried out according to DGMS standards, from time to time.</p> <p>ii. Safety zone plantation in 7.5 m wide area all along the school, water bodies and temple.</p> <p>iii. Wet drilling, controlled blasting and water sprinkling on haul roads will be practiced to control the dust and noise level.</p> <p>iv. From Habitation, School and Temple, no mining activities will be carried out in 100 m distance. Mining would be carried out from 100 to 300m with advanced method of mining such as rock splitter/ breaker after getting permission from DGMS. However, for blasting within 300 m from habitants, a study for controlled blasting will be carried out by the agencies as authorized by DGMS and the recommendations will strictly be</p>

		<p>followed-up to control the blasting hazards.</p> <p>v. Further 250 m distance will be maintained as no mining zone from the River bank.</p>
9.	<p>Project Proponent should submit the map showing the location of crusher and mitigation measures to be adopted to reduce the impact and also the water balance feeding to the crusher.</p>	<p>Project Proponent submitted that the lime stone crusher is proposed 2.5 Km SE from the face of the mine in first five year working. Following control Measures are proposed:</p> <ul style="list-style-type: none"> <li>i. Flexible rubber curtains will be provided around unloading hopper, dry fog system to suppress the dust at unloading hopper, fully covering of discharge chute and bag filters on the discharge point of crusher, screening and at hopper. Greenbelt and afforestation will be done all along the periphery of the crusher. Additionally the mineral will be transported to the crusher avoiding the habitation and other sensitive areas.</li> <li>ii. Further, 51 KLD (3 Ltr/T) is to be utilized in the crushing unit to maintain moisture and avoid airborne of the dust particles.</li> </ul>
10.	<p>The Project Proponent should submit proof of application submitted to CGWA for withdrawal of water.</p>	<p>Project Proponent submitted that the application for drawl of water was submitted to CGWA vide application No: 21-4/1091/MP/MIN/2021 dated 18.02.2021</p>
11.	<p>The Project Proponent needs to submit a Certificate from the Competent Authority in the State Forest Department, confirming the involvement of forest land, if any, in the project area. PP should also submit list of Schedule I species present in the lease area authenticated by PCCF and the status of National Park/Sanctuary, Biosphere Reserve/Tiger Reserve/ Elephant Reserve/any other</p>	<p>Project Proponent submitted that the certificate from the Competent Authority of the state department has obtained vide letter. S.No./MAP/2014/6017 dated 3.12.2014. PP submitted that the list of list of Schedule I species (if any) present in the lease area authenticated by PCCF and other eco-sensitive zone will be submitted along with EIA/EMP.</p>

	Reserve, Habitat for migratory birds, Corridor for animals within 10 km of the lease area and also whether the lease area falls under the buffer zone cum ESZ of Panna Tiger Reserve.																			
12.	PP should give details of such large quantity of Water proposed to be utilized In the Crushing Plant and treatment of discharge Water from the Crushing Plant. Details of Protective Measures for the RIVERS that are nearby be indicated. Protective Measures for the School may also be indicated.	<p>Project Proponent submitted that according to the CPCB guidelines issued in year 2007, page no 107 and figure no. 701. The unloading hopper will be provided enclosures with a roof and flexible belt curtains for the 3 feeding sides. As per the guidelines the present water consumption in Indian cement industries is in the range of 4 to 9 lit/ton of material (0.4 to 0.9%), which suggested to optimize in the range of 0.2 – 0.3% of feed material. In our case, daily material handling at the crusher plant will be 16933 TPD. With present industrial practices of it comes to 68 to 152 KL/day and as per guidelines it should be optimized to 51 KLD.</p> <table border="1" data-bbox="743 1119 1425 1852"> <thead> <tr> <th>S. No.</th> <th>Particulars</th> <th>Water Demand (KLD)</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Domestic and Drinking</td> <td>10</td> <td>Ground Water</td> </tr> <tr> <td>2.</td> <td>Crusher (3 Ltr/T)</td> <td>51</td> <td rowspan="3">The drinking and domestic requirement will be met from the ground sources. Water required for mining activity will initially be</td> </tr> <tr> <td>3.</td> <td>Wet drilling (0.06 Ltr/T )</td> <td>01</td> </tr> <tr> <td>4.</td> <td>Haul road spray for dust Suppression. CPCB guidelines suggests required water of 1 L/m2, for average control efficiency of 73% for 2 times watering per day. Total haulage distance will be approx. 2.5 km. (ref CPCB guideline page no. 65)</td> <td>68</td> </tr> </tbody> </table>	S. No.	Particulars	Water Demand (KLD)	Source	1.	Domestic and Drinking	10	Ground Water	2.	Crusher (3 Ltr/T)	51	The drinking and domestic requirement will be met from the ground sources. Water required for mining activity will initially be	3.	Wet drilling (0.06 Ltr/T )	01	4.	Haul road spray for dust Suppression. CPCB guidelines suggests required water of 1 L/m2, for average control efficiency of 73% for 2 times watering per day. Total haulage distance will be approx. 2.5 km. (ref CPCB guideline page no. 65)	68
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		6.	Greenbelt/ Plantation	20	met from ground water and once the mine pits are develope d, mine water will be used.
		6.	Washing of HEMM	10	
		Total		160	

5. The proposal for Terms of Reference (ToR) was considered before the Expert Appraisal Committee (Non Coal Mining) in its 28<sup>th</sup> EAC meeting held during 24<sup>th</sup> - 26<sup>th</sup> February, 2021. After detailed deliberations, the Committee **recommended** the proposal for grant of Standard Terms of Reference (ToR) for M/s Jaykaycem (Central) Limited of Koni– Simariya Limestone Block over an area of 3095.23 Ha, for total excavation of 9.05 Million TPA (Lime Stone: 5.08 MTPA; Soil: 2.94 MTPA and OB: 1.03 MTPA) with crusher capacity of 1800 TPH located in Village(s) - Koni, Boda, Gudha, Maharajganj, Ganiyari, Vanbhai, Simariya, Devri, Pagra & Kuluwa, Tehsil Simariya, District Panna in State of Madhya Pradesh for undertaking detailed EIA/EMP study with the following specific conditions:-

- i. The Project Proponent shall undertake the peripheral plantation with atleast 90% survival rate all along the lease boundary within 6 months. The Project Proponent shall also undertake plantation in non-mineralized zone, around the water bodies and avenue plantation along the approach roads. An undertaking for the same also needs to be submitted by the Project Proponent.
- ii. Agriculture land and Forest shall be treated as sensitive receptor for monitoring environmental parameters. PP shall ensure the noise level and ground vibration shall not reach beyond the mining lease boundary.
- iii. The Project Proponent should find possible scenarios to minimize the water required during crusher operation.
- iv. The Project Proponent should allow agriculture activity to the land owners separating the mining activity 300m away and a study ascertaining the potential impact of mining activity on agriculture land be carried out with suitable preventive measures to reduce the impact of the same.

- v. PP 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.

**2.4: Proposal for expansion of Noamundi Iron Ore Mine for the production from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA over mining lease area 1160.06 ha along with increase of Iron ore beneficiation plant capacity (Feed to Plant) from 18 MTPA to 27 MTPA in the total project area of 1230.42 ha located at Mahul, Balijore, Korta, Noamundi, Sarbil and Barabalijori villages, West Singhbhum District, Jharkhand by M/s Tata Steel Limited - [Proposal No. IA/JH/MIN/190924/2019, File No. J-11015/104/2011-IA.II (M)] - Environmental Clearance (EC)**

The proposal of M/s Tata Steel Limited for expansion of Noamundi Iron Ore Mine for the production from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA over mining lease area 1160.06 ha along with increase of Iron ore beneficiation plant capacity (Feed to Plant) from 18 MTPA to 27 MTPA in the total project area of 1230.42 ha located at Mahul, Balijore, Korta, Noamundi, Sarbil and Barabalijori villages, West Singhbhum District, Jharkhand. The mine lease area falls in the Survey of India Topo-Sheet No. 73 F/8 & 73 F/12. (1:50,000). The latitudes and longitudes of the Mine lease fall between Latitude: 22<sup>o</sup> 05' N to 22<sup>o</sup> 10' N and Longitude: 85<sup>o</sup> 25' E to 85<sup>o</sup> 35' E.

2. The project falls under Schedule 1(a) i.e. mining of minerals and 2(b) i.e. mineral beneficiation of mining and is a Category - "A" project as per EIA notification 14<sup>th</sup> September 2006. The Project Proponent has applied for Expansion of EC as per Letter No. MD/ENV/967/101/2021 Dated 14.01.2021.
3. The PP vide proposal No. IA/JH/MIN/123625/2019 applied online for grant of ToR dated 29<sup>th</sup> November 2019 and submitted Form-1 and Pre-Feasibility Report. The proposal was considered in EAC meeting held on 19<sup>th</sup> - 20<sup>th</sup> December, 2019 wherein the Committee recommended to prescribe Standard ToR along with additional ToR for Noamundi Iron ore mine of M/s Tata Steel Limited from 10 MTPA to 19 MTPA (ROM) with total excavation of 27.0 MTPA (ML area 1160.06 ha) along with increase of Iron ore beneficiation plant capacity (feed to plant) from 18 MTPA to 27 MTPA total project area is 1230.42 ha. The ToR was issued vide Lr. No. F.No.J-11015/104/2011-IA.II (M) dated 27th April 2020.
4. The PP vide proposal No. IA/JH/MIN/190924/2019 applied online for grant of EC on 30.01.2021.



5. The PP reported that Noamundi Iron ore mine's lease was originally granted from 01.01.1922 for a period of 30 years over an area of 1160.06 ha. 1st Renewal for 30 years w.e.f. 01.01.1952 over an area of 1160.06 ha. 2nd Renewal over an area of 1160.06 ha granted by Govt of Bihar vide their memo no.4795 dated 01.09.1984 and lease deed executed on 20.10.1985. Third Renewal of lease was applied on 17.12.2009. As per the amended MMDR Act under section 8A(5) the captive lease period of Noamundi extended upto 31.03.2030 for 768.55 out of 1160.06 ha.

6. The PP submitted the revised Mining plan (4th Revision) and mine closure plan of Noamundi iron ore mine has been approved by IBM vide Letter No: RAN/WSB/Fe/MP-06/2019-20 dated 13th Aug., 2019.

7. The PP submitted that the Mining operations are carried out by fully mechanized open cast method. Blasting is carried out to create fragmented material. The Iron ore mine is a fully mechanized opencast mine. Height of the bench is 12 m and the width of the benches varies from 12-25 m. The final pit slope is 450 degrees. Drilling is done using 150/165 mm diameter drill. Blasting is done by using SME (Site Mixed Emulsion Explosives) & Nonel (non-electric initiation) and electronic detonators. The blasted material is excavated by shovels and loaded onto 100 ton dumpers for transportation of ore, sub grade or waste.

As per the Past production detail submitted the production in the following year is as below:

Year	EC sanctioned capacity (MTPA)	Actual production(MT PA)	Excess Production(MTPA)
2000-01	4.65	5.11405	0.4640
2001-02	4.65	4.909	0.2590
2002-03	4.65	5.085838	0.4358
2003-04	4.65	4.947857	0.2979
2004-05	4.65	5.445774	0.7958

8. PP submitted that the topography of the area is undulated and hilly area at an elevation above mean sea level ranging from 506m-736m RL and the ground water level is at 506m AMSL. There are three working pits namely (i) Hill No 5&6(Eastern Pit), (ii) Hill No. 3&4(Eastern Pit), and (iii) Western Pit. The ultimate working depth for Hill No.5&6 will be 588m AMSL, for hill no 3 & 4 will be 540m AMSL and for Western Pit, it will be 522m AMSL. The water table during the post monsoon is reported at 496m AMSL. The mine working will not intersect ground water table.

9. PP submitted that the total project area is 1230.42 ha, out of which 762.43 ha is Protected Forest land is falling in the Noamundi and Kurtan Reserve Forest,391.40 ha

(in Lease 355.78 ha +Outside lease 35.62 ha) is government land, 76.59 ha (41.85 ha + Outside lease 34.74 ha) is private land. PP reported that out of total project area 1160.06 ha is for mine lease area and 70.36 ha is for beneficiation plant. FC has been granted over an area of 370.92 ha for mining purpose vide no 8-279, 1985 FC Pt Dated 04.09.2014 and the FC over balance area of 383.37 Ha is in advanced stage of approval (recommendation for grant of Stage I submitted by State Government to MoEF on 14<sup>th</sup> Sept 2018).

10. The PP submitted that there are six schedule-1 species viz. Grey wolf, Elephant, sloth bear, Leopard, Peacock, Python, Common Indian monitor. Chief Wildlife Warden Letter with vide letter No. 1251 dated 28.08.2020.

11. The public hearing for the proposed enhancement of Iron production from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA (ML area 1160.06 ha) along with increase of Iron ore beneficiation plant capacity (Feed to Plant) from 18 MTPA to 27 MTPA total project area is 1230.42 ha was conducted by Jharkhand State Pollution Control Board (JSPCB) on 06th November 2020, under the Chairmanship of Additional Deputy Commissioner, West Singhbhum, Chiabasa at playground of D.A.V. Public School, Noamundi, District-West Singhbhum, Jharkhand as per the Environmental Impact Assessment Notification dated 14th September, 2006. The advertisement for public hearing was published in 'Jharkhand Prabhat Khabar (20.09.2020) and 'Times of India' (19.09.2020).

12. The Project Proponent submitted that there is a court case pending in the High Court of Jharkhand having WP(C) 3768 of 2015. directed the State Government to decide on the representation of Tata Steel which is already pending before the State of Jharkhand in accordance with law and in light of Section 8A(5) of the MMDR Act 1957.

13. The PP has submitted the disclosure of the consultant wherein it has mentioned that the Environmental Impact Assessment (EIA) of for expansion of Noamundi Iron Ore Mine for the production from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA over mining lease area 1160.06 ha along with increase of Iron ore beneficiation plant capacity (Feed to Plant) from 18 MTPA to 27 MTPA in the total project area of 1230.42 ha has been prepared by M/s Vimta Labs Limited, who have been provisionally accredited by National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI) for empanelment of EIA Consultant.

14. Based on the discussion held and document submitted the committee ascertained the violation due to excess production from the year 2000- 05, the EAC in its meeting held on 24<sup>th</sup> – 26<sup>th</sup> February, 2021 observed the following deficiencies and **deferred** the proposal for expansion of Noamundi Iron Ore Mine for the production from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA over mining lease area

1160.06 ha along with increase of Iron ore beneficiation plant capacity (Feed to Plant) from 18 MTPA to 27 MTPA in the total project area of 1230.42 ha located at Mahul, Balijore, Korta, Noamundi, Sarbil and Barabalijori villages, West Singhbhum District, Jharkhand for want of the following information:

- i. Action against project proponent under section 19 of Environment (Protection) Act, 1986.
- ii. PP needs to incorporate another chapter-13 in the EIA for remediation plan, Natural reserve augmentation plan to manage the ecology loss of environment for total excess production as per the Environmental clearance granted previously.
- iii. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the occupational health impacts and also to focus on the dampening effect, noise or voice dampening effect with the revision of the capital cost and recurring cost.
- iv. PP should also allocate some amount to the sanitation and safe drinking water.
- v. PP should also submit the process control, EMP capital investment by assuming the excess waste handling and transportation for excess production.
- vi. The Project Proponent should revise the Conservation plan as per site specific and to protect the scheduled species. The PP should give the information on allocation of budget, time frame and agencies to be responsible for the implementation for each of the target species. The conservation plan should be duly authenticated by Wildlife specialist.

### **DAY- 3 (26.02.2021)**

**3.1 Proposal for Environmental Clearance(EC) for the expansion of Balaji Iron Ore Mine from 74,000 TPA to 3 Lakhs TPA (ROM) with the mine lease area of 19.331 Ha located at khata No. 1, plot nos. 76, 77 and 93 Village Balijore, Bandhburu P.F, Noamundi, District West Singhbhum, State Jharkhand by Shri Anil Khirwal-[Proposal No. IA/JH/MIN/19272/2007, File No. J-11015/142/2007-IA.II (M)] - - Environmental Clearance (EC)**

The proposal of M/s Shri Anil Khirwal for the expansion of Balaji Iron Ore Mine from 74,000 TPA to 3 Lakh TPA (ROM) with the mine lease area of 19.331 ha located

at khata No. 1, plot nos.76,77 and 93 Village Balijore, Bandhburu P.F, Noamundi, District West Singhbhum, State Jharkhand. The mine lease area falls in the Survey of India Topo-Sheet No. 73 F/8. The latitudes and longitudes of the Mine lease fall between Latitude: 22.15527778 N to 22.16166667 N and Longitude: 85.48388889 E to 85.49055556 E.

2. The project falls under Schedule 1(a) i.e. mining of minerals is a Category - "A" project as per EIA notification dated 14<sup>th</sup> September 2006. The General Conditions applicable on the project due to distance of Odisha State Boundary at 2.8 km SW from the lease boundary. The Project Proponent has applied for Expansion of EC as per Letter No. AK/88/20-21 Dated 24.12.2020.

3. The Project Proponent vide proposal No. IA/JH/MIN/19272/2007 applied online for obtaining Environmental Clearance on 31st December, 2020 vide proposal No. IA/JH/MIN/64012/2017. The Terms of Reference (ToR) was obtained for expansion of Balaji Iron Ore Mine from 74,000 TPA to 3 Lakhs TPA (ROM) with the mine lease area of 19.331 Ha vide letter no. J-11015/142/2007-IA-II(M) dated 05.09.2020. Earlier, the project proponent had obtained Environmental Clearance vide letter no. J-11015/142/2007-IA.II(M) dated 13th April, 2011 for production capacity of Iron ore mine of 74,000 TPA by MoEF&CC.

4. The PP reported that initially, the mining lease over an area 22.662 ha in Village Balijore, Tehsil Noamundi, District Singhbhum (West), Jharkhand in favour of Sardar Fauza Singh for a period of 30 years i.e., from 01.05.1972 to 30.04 .2002. During the validity of the lease period, this mining lease was transferred in favour of Mr. Anil Khirwal on 09.08.1983. First term of lease expired on 01.05.2002. In the meanwhile an area of 3.331 ha. was surrendered by the lessee and consequently the lease area reduced to only 19.331 ha. The renewal of the mining lease was applied in 18.04.2001 for further 20 years. In the meantime due to the amendment in Rule 8A(3) of MMDR (Amendment) Act 2015 the lease validity has automatically extended up to 30.04.2022. The supplementary lease deed has been executed 01.03.2017 and registered in the name of Anil Khirwal on 03.03.2017 for a period upto 30.04.2022.

5. The Project Proponent submitted that the present review of Mining Plan along with progressive mine closure plan has been approved vide letter no RAN/WSB/Fe/MP-15/2018-19 dated 05.12.2018. for 2019-2020 to 2022-2023 (up to 30.04.22 i.e. up to validity of mining lease).

6. The Project Proponent submitted that the entire mine lease of 19.331 Ha is forest land. Forest Clearance for 8.242 Ha lease area out of 19.331 ha has been obtained vide letter no. 12(21)5/2002-FCE dated 03.08.2009. Forest Clearance application for rest of

11.089 ha has been submitted on 14.01.2019 and NPV demand for the rest of the area Rs.8094970/- has been also been paid.

7. The PP submitted that there are five schedule-1 species present in the area are *Canis lupus*, *Elephas maximus*, *Melursus ursinus*, *Macaca Mulatta* and *Pavo cristatus*. The site Specific Wildlife Conservation and Management Plan was submitted to Divisional Forest Officer, the same was subsequently, forwarded by Regional Conservator of Forest to Principal Chief Conservator of Forest, wildlife and Chief Wildlife Warden, vide letter no. 2942 dated 24.11.2020. The conservation plan has been approved by Principal Chief Conservator of Forests Wildlife and Chief Wildlife Warden, Jharkhand, Ranchi vide letter no 342 dated 12.02.2021.

8. The Project Proponent submitted that the mining operations by Shri Anil Khirwal are being carried out since September 1988. PP submitted the past production details duly authenticated by District Mining Officer, Chaibasa wherein production figure of 1993-94 (i.e. 15,461 T) has been taken as the base figure of production in the year 2004-05, accordingly, 44,183 T was considered as an excess production. Also, material produced after EIA Notification, 2006, as EC was mandatory for all the mines, consequently, the whole production figure was treated as excess production.

9. Based on the discussion held and document submitted in the EAC meeting held on 24<sup>th</sup> to 26<sup>th</sup> February, 2021 the Committee observed the following deficiencies and due to this, the proposal for the expansion of Balaji Iron Ore Mine from 74,000 TPA to 3 Lakhs TPA (ROM) with the mine lease area of 19.331 Ha located at khata No. 1, plot nos. 76, 77 and 93 Village Balijore, Bandhburu P.F, Noamundi, District West Singhbhum, State Jharkhand rejected:

- i. The proposal for expansion from 74,000 TPA to 3,00,000 LTPA for which the plan was approved by IBM in the year 2018 with progressive increase in production to 3LTPA. Since now the mine lease is valid for one year of operation and as the mine is having very small working area and due to sudden increase in around 4 times production will spare the ecological disaster and in pristine forest area of the country.
- ii. The EAC also noticed the project proponent has violated the EIA notification as excess production has been done in the year 2004-2005 and 2009-2010 before obtain the EC for 74,000 as per the Common cause judgement, Hon'ble Supreme Court order dated 2.08.2017.
- iii. Action against project proponent under section-19 of Environment (Protection) Act, 1986.

- iv. The committee felt that this expansion with limited EMP as the project proponent included the water which is not the part of EMP for expansion.

**3.2: Proposal for EC Limestone mine (Mudhvay Sub Block D), with production capacity of 1.60 MTPA, Top Soil - 0.32 MTPA and Overburden - 0.515 MTPA) with Mining lease area 107 ha located at village Mudhvay, Taluka Lakhpat, District Kachchh, Gujarat by M/s JSW Cement Ltd - [Proposal No. IA/GJ/MIN/85230/2018, File No. J-11015/187/2018-IA-II (M)] - Environmental Clearance (EC)**

The proposal of M/s. JSW Cement Limited is for mining of Limestone (Mudhvay Sub Block D) with production capacity of 1.6 Million TPA, Top Soil – 0.32 Million TPA & Overburden – 0.515 Million TPA in the ML area of 107.00 ha. The mine lease area is located at Village – Mudhvay, Taluka – Lakhpat, District – Kachchh, Gujarat. The mine lease area falls between Latitudes 23° 42' 12.1144" N to 23° 42' 57.7472" N & Longitudes 68° 40' 07.4650" E to 68° 40' 59.0367" E with Survey of India Topo-Sheet No. 41A/10 and study area – 41A/9, 41A/13 and 41A/14.

2. As per EIA Notification dated 14<sup>th</sup> 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 vide proposal no IA/GJ/MIN/85230/2018 for prescribing Term of Reference (ToR) and submitted Form-1 and Pre-feasibility report. The proposal was considered in EAC meeting held on 29<sup>th</sup> – 30<sup>th</sup> May, 2019 wherein the EAC recommended the proposal for prescribing standard Term of Reference (ToR) along with specific TOR. The ToR letter was issued on 28.06.2019.
4. The Project Proponent vide proposal No. IA/GJ/MIN/85230/2018 applied online for grant of EC on 29<sup>th</sup> February 2020.
5. The Project Proponent submitted that the total mine lease area is 107 ha, out of which 94.31 ha is Government land and 12.69 ha is other (santhni/Private) land. The project proponent submitted that there is no forest land involved in the mining lease. However, Narayan Sarovar Wildlife Sanctuary is present within the 10 km study area.

The Project Proponent submitted that the lessee had applied for its 1<sup>st</sup> renewal on 28.05.2007, which was under consideration of State Government. Meanwhile, as per section 8A(5) of Mines & Minerals (Development & Regulation) Amendment Act 2015, the mining lease tenure has been extended for the period of 50 years from the date of original lease deed i.e. up to 7<sup>th</sup> June, 2038 vide Industries & Mines Department, Govt. of Gujarat, Gandhinagar order no. MCR/1589/(S-34)2164/CHH, dated:02.07.2020. The

mine block was auctioned by Government of Gujarat and Letter of Intent has been granted by Industries & Mines Department, Government of Gujarat.

6. The Project Proponent submitted the Mining Plan and Progressive Mine Closure Plan has been approved by Indian Bureau of Mines (IBM), Gandhinagar (Gujarat) vide letter no. 684 (4) (1)/MP-165/2018-GNR dated 07.09.2018.

7. The Project Proponent submitted that mining will be done by fully mechanized opencast method using Continuous Surface Miner (CSM) with combination of excavator/loader and dumpers. Drilling and blasting techniques will be used occasionally for hard formations. The loading is proposed to be carried out by hydraulic excavator for OB handling and pay loader for lifting sized limestone whereas transportation from mine to the proposed cement plant by dumpers/tippers.

8. The Project Proponent submitted that the total water requirement for proposed project will be 100 KLD which will be sourced from proposed desalination plant and mine water. Water requirement shall be fulfilled from desalination plant proposed in cement plant and harvested water in mine. No ground water will be used for Mining purpose.

9. The Project Proponent submitted that the Green belt development / Plantation will be done on 43.41 ha including 3.50 ha along the boundary greenbelt, 33.91 ha on backfilling and 6.00 ha within the Nallah barrier.

10. The Project proponent submitted that there is no National Park, Biosphere Reserve, Wildlife Corridors, Tiger/Elephant Reserves etc. within 10 km radius of the Mine site. There is Narayan Sarovar Sanctuary at a distance of 3.05 km and ESZ is at a distance of 0.55 km from the lease boundary.

11. The Project Proponent submitted that there are three Schedule-I faunal Species namely Peafowl, Chinkara and Monitor Lizard are found in the study area for which Conservation Plan has been prepared. Conservation plan of Rs. 133.875 Lakh has been approved from CWLW Vide letter dated 20.01.2020.

12. The Project Proponent reported that the Primary baseline data including Site Specific Meteorological data has been collected during Post Monsoon Season (October to December, 2018). Ambient Air Quality: The concentrations of PM10 and PM2.5 for all the 08 AAQM stations were found between 40.90 to 83.12  $\mu\text{g}/\text{m}^3$  and 22.16 to 52.24  $\mu\text{g}/\text{m}^3$  respectively. The concentrations of SO<sub>2</sub> and NO<sub>2</sub> were found to be in range of 6.18 to 16.43  $\mu\text{g}/\text{m}^3$  and 8.40 to 24.12  $\mu\text{g}/\text{m}^3$  respectively. Ambient Noise Levels: Ambient noise levels were measured at 8 locations around the mine site. Noise levels vary from 47.1 to 54.1 Leq dB (A) during day time and from 40.2 to 43.6 Leq dB (A) during night time. Surface Water Quality: There is no perennial water body exists within the study area, only some seasonal water bodies like Water reservoir, Kapurasi Nadi,

Kori Creek, Jogira Talav, Kanana Talav, Sangdiawala Talav, Aliasar Talav, Kali Nadi found in the study area. No water was found in the above water bodies except Kori Creek for sampling during survey which shows that pH varies from 7.92, Total hardness 11632.18 mg/l, Total Suspended Solid 12.40 mg/l, Alkalinity 615.18 mg/l, Chloride 20952.12 mg/l, Fluoride 1.38 mg/l, Total dissolved solids 39652.0 mg/l, BOD varies from 0.85 mg/l, COD 56.18 mg/l and DO 6.60 mg/l. Ground Water Quality: The ground and drinking water analysis for all the 6 sampling stations shows that pH varies from 7.38 to 7.61, total hardness varies from 268.26 mg/l to 946 mg/l & total dissolved solids varies from 556.0 mg/l to 4223.60 mg/l, chloride from 124.19 to 2076 mg/l, SO<sub>4</sub> varies from 40.19 to 314 mg/l. Soil Quality: The analysis result for soil shows that pH value varies from 7.56 to 7.94 and soil textures of the soil samples were sandy loam. organic matter ranges from 0.63 % to 0.84 % in the soil samples. Nitrogen ranges from 115.36 to 156.37 kg/ha and Phosphorous varies from 18.56 to 23.47 kg/ha, whereas the Potassium is found to be ranging from 201.41 to 287.45 Kg/ha.

13. The Project Proponent submitted that the advertisement for public hearing was published on 30.09.2019 in Kutch Mitr & The Indian Express. Public hearing was conducted on 05.11.2019 Gujarat Pollution Control Board. Issues raised during public hearing were about work on education, health facility, infrastructure development, water arrangement, employment, Dargah development, Road construction etc. An amount of Rs. 157 Lakh has been earmarked for issues raised during public hearing.

14. The Project Proponent submitted that the total Area is 107.00 ha, out of which 94.31 ha is Govt. land and 12.69 ha is Private land. Land will be acquired under the "Right to fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act-2013 (LARR Act, 2013)" and mutual agreement. There are 9 Project Affected Families; all are having land within in the lease area. Total budget for R&R is Rs. 4.57 Crores.

15. The Project Proponent submitted that the Under Air Quality and Noise level Management Surface miner will be used and drilling blasting will be used occasionally. Drilling machines will be equipped with wet drilling/ dry suction arrangements. Controlled blasting will be adopted and optimum use of explosive energy will help in reducing the air pollution. Blasting will be carried out during day time only, as per the permission of Director of Mines Safety, Govt of India. Regular water sprinkling on haul roads & loading area to suppress dust. Proper maintenance (preventive as well as scheduled maintenance), oiling and greasing of HEMMs to minimize generation of noise & gaseous pollutants. Personal protective equipment like dust mask, ear muffs, safety shoes, helmet etc. will be provided to all employees. Periodic air quality & Noise Level Monitoring will be carried out as per CECB guide lines. Under Water Management, No wastewater generation due to mining activities. Domestic wastewater will be disposed in Soak Pit via Septic tank. To control the surface run-offs, Retaining walls, Garland drains



along the periphery of pits and dumps & settling tanks will be constructed. The rainwater falling directly into the mine pits will be stored and used for plantation & dust suppression. Periodical Ground water level monitoring & quality analysis will be carried out.

16. The Project Proponent submitted that the Initial & Periodical Medical checkup of all the employees will be carried out. Necessary medical facilities will be provided to all the employees. All the necessary precautions for Health & Safety measures will be taken care. Following tests will be done for employees: Hematological Test, Biochemical Test (Sugar, Liver function test, Renal function test, Lipid Profile etc.), Urine R/M, E C G, Spirometry, Audiometry, Chest X –Ray, Vision Examination, Health Review System. Medical Record of Each Employee will be maintained and updated with finding as per 29 P of Mines Rules 1955.

17. The Project Proponent submitted an Affidavit in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors before grant of ToR/EC has been submitted to MoEF&CC.

18. The Project Proponent submitted that the total project cost is Rs. 47.58 Crore. The total manpower required for the proposed mining project will be around 96 persons.

19. The present proposal was considered in the 15<sup>th</sup> EAC meeting on 20-21 April 2020, in which EAC deferred the proposal for Shortcomings. The Project Proponent replied vide letter dated 31<sup>st</sup> January 2021 with the following relevant information:

i. PP shall decide on the location of the Cement plant and shall plan for transportation of raw material through a closed conveyor keeping in view of the cluster of activities proposed in the area. Further, the PP may explore the possibility of transportation through common infrastructure with the other projects for efficient control of dust generation.

The PP replied that the JSWCL has identified location for Cement Plant near Village-Mudhvay, Taluka- Lakhpat, District: Kachchh, Gujarat in North West Direction adjacent to Mining Lease Area , covering an area of 40.47 ha.

ii. Detailed hydrogeological survey to be conducted in view of salinity ingress, if any in the mining process up to the conceptual pit limit. The aquifer characteristics shall be delineated with geophysical survey to assess impact on the ground water regime and mitigation measures.

The PP replied that the detailed hydrogeological survey in view of salinity ingress has been conducted by M/s HydroGeosurvey Consultants Private Limited (HCPL), Jodhpur, accredited by NABL as well as CGWA. The study indicates that there is no possibility of sea water ingress as the coast is about 6 Km away from mine and there is regular flow of fresh ground water to sea with saturated fresh water of 29 m above the sea level.

iii. Stage wise reclamation plan of the mine up to the period of conceptual pit limit shall be provided in the environment management plan.

The PP replied that the at the conceptual stage, mined out area will be 37.35 ha in which 3.44 ha area will be backfilled and 33.91 ha area will be covered under water reservoir. During Plan Period, 0.569 Million Tonne of soil and 1.546 Million Tonne of Overburden will be generated and at conceptual stage 1.36 Million Tonne of soil and 3.015 Million Tonne of Overburden will be generated.

iv. As the area is in close proximity to Narayan Sarover Wild life sanctuary, a study to assess the impact of mining activity on bird's Migratory path shall be conducted and mitigation plan for the same shall be incorporated in consultation with State Government and the revised conservation plan to be submitted.

The PP replied that the Mining Lease Area is at a distance of 3.05 Km from Narayan Sarovar Wildlife Sanctuary, Letter regarding the distance has been obtained from CWLW vide letter dated 02.03.2020. Detailed Impact assessment of mining activity on birds' migratory path has been conducted by NABET Accredited, FAE Cat-I Ecology & Biodiversity of Bhagwati Enviro Care Pvt. Ltd., Ahmedabad.

v. Fodder development plan for the livestock to mitigate the impact on grazing land due to mining activity for the village of the vicinity shall be brought out in the socio economic development plan.

The PP replied that looking to the climatic conditions and scarcity of fodder in the area, JSW Cement aims to implement a fodder development programme in the village Mudhvay and its vicinity for socio economic development of the area which company has allocated a budget of Rs. 18 Lakh

vi. Issues raised during the Public hearing shall be properly addressed along with time bound action plan.

The PP replied that the Public Hearing was conducted on 05.11.2019 At Moti Mudhvay, Common plot, beside primary school, Moti Mudhvay, PO. Koriyani, Taluka: Lakhpat, District: Kutch. Public Hearing was chaired by Shri Kuldip Singh Jhala (G.A.S), Resident Additional Collector & Additional District Magistrate, Kutch & Dr. S. N Agravat, Regional officer, GPCB, Kutchh. Total of 275 persons attended the PH and a total of 33 representative expressed their concerns (verbal and written). Total of Rs. 157 Lakh has been allocated on the basis of issues raised during public hearing, which will be spent during first 3 years under EMP.

vii. The revised manpower and organization chart shall be provided relevant to the environmental cell for implementation of EMP and environmental monitoring. The mechanism of reporting the noncompliance's / infringements at periodical interval to the board of directors has not been provided.

The PP replied that the Total Manpower required for Mining project is 96 Persons including 26 persons for implementation of EMP.

viii. The plantation shall be planned with native species including leguminous grass in lieu of the proposed exotic species like Prosopis Julifora.

The PP replied the list of native species for plantation.

ix. Annual total excavation quantity shall be provided.

The PP replied that the total excavation w.r.t. mineral, OB, Inter burden, Waste are given below:

S.No.	Particulars	Production Capacity (In Million TPA)
1.	Limestone	1.6
2.	Waste (OB)	0.515
3.	Top Soil	0.32
	Total Excavation	2.435

x. The schedule of the occupational health survey shall be furnished in the Environmental management plant as per the ILO and DGMS rules

The PP submitted the details of Schedule of the occupational health survey as per ILO and DGMS rules.

20. Based on the discussion held and document submitted in the EAC meeting held on 24<sup>th</sup> to 26<sup>th</sup> February, 2021 the Committee **recommended** the Proposal for EC Limestone mine (Mudhvay Sub Block D), with production capacity of 1.60 MTPA, Top Soil - 0.32 MTPA and Overburden - 0.515 MTPA) with Mining lease area 107 ha located at village Mudhvay, Taluka Lakhpat, District Kachchh, Gujarat with the following specific conditions:

- i. The Project Proponent needs to follow the National action plan for conservation of migratory Birds as well as the convention of Migratory species as the terrestrial migration of birds also involved.
- ii. The Project Proponent needs to submit the EMP during the compliance for bifurcated activity.
- iii. The Project Proponent needs to depute a Chemist for the regular environmental monitoring in the Project area.
- iv. The Project Proponent should continue to study in the mine lease nearby area which will be a part of conservation plan.
- v. The piezometer should be placed on the western side of the lease and also within the Mine lease area to maintain the increase in Salinity in the area.
- vi. The Project Proponent should have the facility to convert the mined out water with salinity 5000 to 10000 gm/kg to convert mined out water to potable water. After reducing the salinity use the potable water for irrigation and agriculture.

**3.3: Proposal for EC of Production of 2.0 MTPA(ROM) of Limestone mine with the Mining lease area 24.28 ha located at survey no. 22/2 part of village Zinzarka-Boricha, Taluka porbandar, District Porbandar, Gujarat by M/s Surashtra Chemicals Division Nirma Ltd - [Proposal No. IA/GJ/MIN/23323/2014, File No. J-11015/155/2014-IA.II (M)] - Environmental Clearance (EC)**

The Proposal of M/s Saurashtra Chemicals Division of Nirma Limited is for Zinzarka Limestone Mine with production of 2.0 LTPA (ROM) with mine lease area 24.28 ha, located at Village Zinzarka Boricha, Tehsil & District Porbandar, Gujarat. The mining lease area is a part of the Survey of India Topo-sheet No. 41 G/9 and 41 G/10.

The site falls between latitude 21°44'56.76" N to 21°45'14.90" N and longitudes 69°40'19.65" E to 69°40'37.74" E and falls in seismic zone-III.

2. As per EIA Notification dated 14<sup>th</sup> September, 2006 as amended from time to time, the project falls under category "A", Project or Activity 1(a) as the proposal attracts general condition. The Barda Wildlife Sanctuary is present within 5km radius from the mine lease area i.e. at a distance of 1.38km in East direction from the mine site. The Ministry had issued the Final Notification for Eco Sensitive Zone (ESZ) of the Barda Wildlife Sanctuary vide S.O No. 1365 (E) dated 28.04.2017. As per the final notification the proposed mine is outside the Barda Wildlife Sanctuary.

3. The Project Proponent had obtained Terms of Reference (ToR) from MoEF&CC vide letter no. J-11015/155/2014-IA.II(M) dated 25.11.2014. The project proponent had applied for Environmental Clearance on 16<sup>th</sup> July, 2016. The proposal was first considered in 10<sup>th</sup> EAC meeting held on 19-20<sup>th</sup> September, 2016 wherein the Committee deferred the proposal as it was noted that mine lease area falls within the Eco-sensitive Zone (ESZ) of the Barda Wildlife Sanctuary. The ESZ notification provided for prohibiting the mining activity within the ESZ therefore, it was decided that the proposal may be deferred till the ESZ notification is finalized. Accordingly, the ADS was generated on 5<sup>th</sup> October, 2016 and the project proponent replied on 22<sup>nd</sup> May, 2017. Again, ADS was generated on 15<sup>th</sup> June, 2017. PP submitted the reply on 18<sup>th</sup> September, 2017. The proposal was then considered in 23<sup>rd</sup> EAC meeting held on 23-24<sup>th</sup> October, 2017 wherein the Committee deferred the proposal and was of the view that it may be re-considered after the PP submits the renewed mining lease deed. ADS was generated on 1<sup>st</sup> November, 2017. PP submitted the reply on 27<sup>th</sup> November, 2019. The proposal was then considered in 12<sup>th</sup> EAC meeting held on 19<sup>th</sup> December, 2019 wherein the Committee deferred the proposal due to few shortcomings. ADS was generated on 7<sup>th</sup> February, 2020. PP replied for the same on 5<sup>th</sup> November, 2020.

4. The Project Proponent vide proposal No. IA/GJ/MIN/23323/2014 applied online for grant of EC on 12 Aug 2016.

5. The PP reported that a Map duly authenticated by Chief Conservator of Forest, Porbandar Division, and showing that the distance of the Mining lease from Barda Wildlife Sanctuary is 1.3 KM. The Committee observed that a road is passing through the mining lease and was of the view that no mining operation should be carried out within 50 meters on the both sides of the road.

6. The PP submitted that the mine has been allotted in the name of Shri Laxman Bhai Bhim Bhai Agath in the year 1985 over an area of 24.28 ha. The lease was transferred vide Govt. of Gujarat order no MCR-1589(S-54)-2164-CHH dt 24.11.1992 and corrigendum dated

17.01.1994 in the name of M/s “VXL India Limited –Saurashtra Chemicals”. Transfer deed was executed on 24.01.1994.

PP also submitted letter no MCR/102019/1247/CHH, dated 03.06.2019 obtained from Industries and Mine Department, Government of Gujarat stating that the lease period extension in terms of Section 8(A)(5) of the MMDR(Amendment) Act, 2015 of Boricha Zinzarka Limestone Mining Lease bearing 24.28 Ha in survey No. 22/2 P of village-Boricha-Zinzarka, Taluka-Porbandar, District-Porbandar granted to Saurashtra Chemicals, is under consideration of the State Government and certified that the period of the said mining lease is liable to be extended up to 07/06/2038 as per the provisions made under section 8A(5) of the MMDR Amendment Act, 2015.

7. The Mining Plan under rule 11 of MCDR 1988 was approved by RCoM, IBM, Udaipur vide letter No. 682(23)903/98-MCCM(N) UDP dt.19.08.1999 for a period 1999-2000 to 2003-04. Mining Plan including Progressive Mine Closure Plan under Rule 24(A) of MCR 1960 & 23 (B)(1) MCDR 1988 for renewal of lease was prepared and it was approved by RCoM, IBM, Udaipur vide letter no. 682(23)605/2008-Khanikhas(U) dt. 20.11.2008 for the period of 2008-09 to 2012-13 respectively. Scheme of Mining along with PMCP under Rule 12(3) and 23(B)(2) of MCDR 1988 has been approved vide letter no. 682(23)(605)/2008-KHANI.KHAS.(U)UDAI dated 23.12.2013 for period 2013-14 to 2017-18. Scheme of Mining along with PMCP under Rule 17(2) of Minerals (OTAHCEM) Concession Rule 2016 & 23 of MCDR, 2017 has been approved vide letter no. 684(4)(1)/MP225/2019-20-GNR dated 17.06.2019 for period 2019-20 to 2022-23.

8. The Project Proponent submitted that the method of mining will be Open-cast(semi-mechanized) with manual sizing & loading of limestone. The rock- breaker will be used for loosening the mineral. The Open Pit Mine (OTFM) The Benches of maximum 5.0 m height and more than 5.0 m of width, ramp gradient of 1 in 16 is maintained. The width of haul road is maintained around 10 m with two-way traffic system. The rock-breaker is used to break the in-situ rock into big/small pieces and further excavated material being loaded into tippers by hydraulic excavator for transportation of mineral from mine site to destination through tipper trucks. Bench slope angles maintained at 80°. The project activities include mining, manual sizing, loading and transportation of limestone to Soda Ash plant of the company located at Porbandar for the manufacturing of Soda Ash.

9. The Project Proponent submitted that the conceptual Mine planning up to the end of lease period taking into consideration the present available reserves and resources describing the excavation, recovery of ROM, Disposal of waste, and backfilling of voids, reclamation and rehabilitation showing on a plan with few relevant sections.

10. The Project Proponent submitted that the water is required for sprinkling on haulage road. Total water requirement shall be 5.85 KLD. The domestic water demand as 2.35 KLD and for dust suppression 1.5 KLD and Green belt development 2.0 KLD.

11. The PP submitted that the greenbelt plantation will be on the maximum area of 7.725 (i.e 33% of the Total area), the total number of plant to be planted is 1000 plants per ha. And the survival will be 80% per year that means for 800 plants per ha. The budget allocated for the greenbelt plantation is as: the capital cost is 4, 63,000 (Rs. 60 per plant for 7725 plants). The Recurring cost for the plantation is Rs. 46,300 per year.

12. The Project Proponent submitted that no forest land involved in the mining lease area.

13. The Project Proponent submitted that one schedule-1 species present in the area is Ghorkhodiya (local name) or Indian Ratel (English Name) or *Molivora capensis* (Scientific name).

14. The Project Proponent reported that the baseline data field monitoring studies to evaluate the base line status of the project site were carried out covering December 2014 to February 2015 with CPCB guidelines.

15. The Public hearing was conducted on 20.05.2016 at the proposed mine site organized by Gujarat state pollution control board.

16. The Project Proponent submitted that the existing EMP capital cost is Rs. 16.1 Lakhs and Recurring cost is Rs. 4.53 Lakh. The cost of Environment management plan is as follows (i) the capital cost for Environmental Training / awareness campaign is Rs. 0.5 Lakh and the recurring cost is 0.25 Lakh per annum, (ii) The recurring cost for Pollution abatement-Water sprinkling is Rs. 0.50 Lakh per annum, (iii) The capital cost for Green belt development & Others is 4.63 Lakh and the recurring cost is 0.436 Lakh, (iv) The recurring cost for Environmental Monitoring cost is Rs. 0.20 Lakh per annum, (v) The recurring cost for Maintenance of the Garland drain is Rs. 0.20 Lakh per annum, (vi) The capital cost for Conservation of Schedule –I species is Rs. 6.0 Lakh per annum, (vii) The recurring cost for Corporate Environment Responsibility is Rs. 0.50 Lakh per annum, (viii) The recurring cost for Provision of two dustbin is Rs. 0.02 Lakh per annum.

17. The Project Proponent submitted that the Rs. 1.0 Lakhs for occupational health and safety which will cover the Impacts of Noise from the machinery can cause hypertension, high stress level, hearing loss, sleep disturbance and the accident at the site due to mining operation may be anticipated.

The mitigation measures taken in terms of the machinery will be maintained in good running condition so that noise will be reduced to minimum possible level.

Awareness will be imparted to the workers about the permissible noise level and effect of maximum exposure to those levels. Personal protective equipment will provide to prevent the noise exposure. Personal Protective Equipment will be provided during mining activity.

18. The Project Proponent submitted that the project cost is Rs 25 Lacs. The proposed manpower to about 156 workers.

19. The proposal was considered in 25<sup>th</sup> EAC meeting held during 22-24<sup>th</sup> December, 2020. The Committee noted that the air quality modeling results have not shown properly, while comparing the baseline data collected during December, 2014 to February, 2015 and in January, 2020 for revalidation of the baseline results. The percentage variance submitted by the project proponent was not adequate for all the data collection sites. The Committee also noted that the presentation given by the project proponent was not clear. Therefore, based on the documents submitted and presentation made by the project proponent and the consultant, the Committee deferred the proposal and is of the view to submit the information. The PP submitted the information online on 10.02.2021 are as follows:

1. The project proponent needs to submit the air quality data by performing proper air quality modeling. Also, properly mention the impact of mining activities on the surrounding region.

The PP submitted that the incremental concentration depicted of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub> have been given. Moreover the detailed modelling, isopleths, its impact & mitigation measures have also been covered.

2. The project proponent needs to submit the precautions and mitigation measures to be adopted along with the road passing through the mine lease area.

The PP reported that the precautions and mitigation measures to be adopted along with the road passing through the mine lease area.

20. Based on the discussion held and document submitted in the EAC meeting held on 24<sup>th</sup> to 26<sup>th</sup> February, 2021 the Committee **recommended** the proposal for EC of Production of 2.0 MTPA(ROM) of Limestone mine with the Mining lease area 24.28 ha located at survey no. 22/2 part of village Zinzarka-Boricha, Taluka porbandar, District Porbandar, Gujarat with the following specific conditions:

- i. The committee observed that the project area falls under the zone where the air quality is already at saturation level as per the standards. The project proponent should start immediately the peripheral plantation, raising safety belt to prevent



dust migration with mine from outside mine area by using 6 feet tall saplings (with the native plants to create the complete barrier for attenuation of dust pollution).

- ii. The project proponent should also implement the immediate plantation plan all along the Tar road passing through the lease. Green belt of 50m on the either side of the road should be created.
- iii. The project proponent informed that mineral is soft and mining will be used by shovel and deploying manual labor for the collection of the material.
- iv. All other roads which are continue to be used by villages will also be protected by avenue plantation.
- v. The project proponent should submit once an effective plan for occupational Health along with the 6-monthly compliance report to Ministry.

**3.4: Proposal for ToR as per MoEF&CC Notification dated 06th April, 2018 for Mohangarh Gypsum (Minor Mineral) Mining project with Production Capacity of 4.5 Lakhs TPA Gypsum and 29,251 cum/year OB with the Mining lease area- 501.67 ha, located at Village- Mohangarh Tehsil & District Jaisalmer State Rajasthan by M/s FCI Aravali Gypsum and Minerals India Ltd.- [Proposal No. IA/RJ/MIN/87033/2018, File No. J-11015/4/2019-IA-II(M)] - Terms of Reference (ToR)**

The proposal of M/s FCI Aravali Gypsum and Minerals India Ltd. for ToR under S.O. 1530 dated 06th April, 2018 for Mohangarh Gypsum (Minor Mineral) Mining project with Production Capacity of 4.5 Lakhs TPA Gypsum and 1, 29,251 cum/year OB with the Mining lease area- 501.67 ha, located at Village- Mohangarh Tehsil & District Jaisalmer State Rajasthan. The Project Proponent submitted that mining lease area falls under Survey of India Topo-Sheet No. 40 M/7 (Old) or G 42 F/7 (New) and between Latitude: N 27°17'46.77" to N 27°19'34.57" N & Longitude: E 71°16'2.58" to E 71°17'47.69".

2. The project falls under Schedule 1(a) of mining and is a Category-A as the mining lease area is greater than 100 ha as per EIA notification dated 14th September 2006. The mining lease area is 501.67 ha (ML No 27/62).

3. The PP submitted that M/s FCI Aravali Gypsum & Minerals India Ltd. obtained environmental clearance for Mohangarh Gypsum (Minor Mineral) Mining project with production capacity 4.5 Lakh TPA Gypsum under the provisions of EIA Notification, 1994 vide letter no J-11015/435/2005-IA. II (M) dated 9th June, 2006.

4. PP has applied as per provision of S.O. 1530 (E) dated 06.04.2018 online vide proposal no IA/RJ/MIN/11529/2005 on 02.10.2018 and proposal was considered in EAC meeting held during 15-16 November, 2018 wherein EAC returned the proposal in present form. As per direction of EAC re-applied vide proposal IA/RJ/MIN/87033/2018 dated 29.11.2018 and proposal was considered in EAC Meeting held during 22-23 January, 2019 wherein the Committee deferred the proposal for want of requisite information. The PP submitted the requisite information on 06.03.2019. The proposal was again placed in EAC meeting held during 23-24 April, 2019. The Committee deferred the proposal due to shortcomings.

5. The PP reported that the Mining lease over an area of 501.67 ha has been granted in favor of Fertilizer Corporation India Ltd by the Central Govt. by his special power vide notification no. F-4(4)/63-MII/3228 on dated 20.02.1964. The PP submitted that out of total lease area, 7.20 ha is the private agricultural land and remaining 494.47 ha is government waste land. There is no stream and nalla exists within lease area.

PP submitted that as per Gazette Notification dated 20.02.1964 of Govt. of India under sub-section (2) and (4) of section 17 of the Mines and Mineral (Regulation and Development) Act, 1957 (67 of 1957), the Central Govt. prohibited the grant of prospecting license or mining lease in a few gypsum bearing areas (mentioned in schedule of Notification.), including the project under consideration, in the state of Rajasthan, as the Central Government intended to undertake mining operations in these gypsum Mines.

An agreement was made on 25.07.1964 between Central Govt. and Fertilizer Corporation of India Limited, in which Central Govt. appointed FCI Ltd. for carrying on the mining operation for extraction of gypsum from the area of 501.67 ha. In response to FCIL's application for grant of mining lease, the Ministry of Steel & Mine (GOI), vide their letter no. MV-1 (632)/63 dated 27.03.1965, stated that in view of the Gazette Notification dated 20.02.1964, FCIL had already been authorized to work the area and the question of grant of mining lease in the said area does not arise.

Superintending Mining Engineer, Bikaner; vide letter no. 739 dated 14.06.2004 and additional Director, Mines vide letter No. 4299 dated 26.08.2013, both addressed to Rajasthan State Pollution Control Board in reference to FAGMIL's application for grant of CTO, have clarified that FAGMIL is operating the mines as agent of Central Govt., and grant of mining lease for the mine is not applicable.

6. The project proponent submitted that the Mining Scheme with Progressive Mine Closure Plan has been approved by Superintendent Mining Engineer, Mines & Geology Dept, Bikaner SME/BKN/CC4/M.P/ML-27/62/1502 dated 17.05.2017.

7. The method of mining will be opencast mechanized without drilling and blasting. PP also submitted that there is no change in the method of mining or gypsum production.

The PP also submitted the Cluster Certificate obtained from DMG as per S.O. 141(E) dated 15.01.2015 and S.O. 2269(E) dated 1.07.2016 vide letter dated 12.02.2019. As per the cluster certificate there is another mine of FCI having area of 200 Ha is adjacent to this mining lease. Thus, the total cluster area is 700.67 Ha.

8. The PP submitted that the water requirement of 9.5 KLD which will be sourced from the Tanker Supply. The water will be used for Dust Suppression, Domestic and Drinking water purpose.

9. The PP submitted that after excavation of mineral 7.20 ha out of 501.67 ha will be used for agriculture purpose and remaining Govt. waste land will be developed as green belt area.

10. The Project proponent submitted that the entire no forest land area involved, no schedule-I species found.

11. As the Gypsum is a minor mineral and District Survey Report (DSR) is applicable in the instant case.

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

13. The PP submitted that the total project cost shall be 80.0 Lakh and will provide direct employment to 28 persons.

14. The proposal for EC was considered in the 4<sup>th</sup> EAC meeting held during April 23-24, 2019, the Committee deferred the proposal and wants the information. The project proponent submitted the reply vide letter dated 02.02.2020 are as follows:

a) Clarification from Ministry of Mines whether the mining lease needs to be executed in this case or not. Whether the submission made by the PP regarding requirement of mining lease in the instant case. Whether PP can mine in further based on the documents submitted so far.

The PP submitted that the Validity of the Mining lease is up to 31.03.2025 as per the Directorate of Mines and Geology vide letter dated 12.11.2020.

b) Past Production details duly authenticated by DMG financial year wise since 1993-94 onwards.

The PP submitted the Past Production details financial year-wise and duly authenticated by DMG since 1992-93.

c) Status of nearby lease of 200 Ha (i.e. date of grant of lease and EC if any).

PP submitted the Rider Agreement regarding Mine lease validity and EC letter.

d) Justify the water requirement and submit its plantation plan by selecting the species which can survive in this region.

PP submitted the Plantation Plan.

e) On viewing the KML file it has observed that there may be possibility that mining has been carried out outside the lease boundary. Thus, comments of DMG, Rajasthan in this regard needs to be submitted.

The PP informed to the Ministry that the communication in this regard was made by MoEF&CC directly to Joint Secretary, Govt. of Rajasthan who further instructed DMG Rajasthan, Udaipur to carry out the inspection of the mine site. After the inspection of District Mining Engineer the necessary reply was submitted by Joint Secretary, Govt of Rajasthan directly to MoEF&CC.

15. Based on the discussion held and document submitted in the EAC meeting held on 24<sup>th</sup> to 26<sup>th</sup> February, 2021 the Committee **recommended** the proposal for ToR as per MoEF&CC Notification dated 06th April, 2018 for Mohangarh Gypsum (Minor Mineral) Mining project with Production Capacity of 4.5 Lakhs TPA Gypsum and 29,251 cum/year OB with the Mining lease area- 501.67 ha, located at Village- Mohangarh Tehsil & District Jaisalmer State Rajasthan by M/s FCI Aravali Gypsum and Minerals India Ltd.- [Proposal No. IA/RJ/MIN/87033/2018, File No. J-11015/4/2019-IA-II(M)] - Terms of Reference (ToR) with the following specific conditions:

- i. The Project proponent should collect the fresh public opinion and address it and also note the old public opinion. The project proponent has to show the spend i.e. 1% of project cost in the budget especially in the field of Health, Education, Communication etc.
- ii. The Project proponent has to Spent more amount for peripheral boundary plantation. The mixed species in the arid areas should be planted with the caring and 90% survival rate.

- iii. Incorporate an actionable EMP chapter in the EIA with advance mining methods. This chapter will be an overview of “How mining should impact less on the Environment”.
- iv. The EMP in the budget should include the recurring expenditure of Noise control, air quality control, water quality control and their explanation in the EIA report.
- v. The project proponent has to assess the cumulative impact of adjacent lease for 700 ha.
- vi. The project proponent has to revalidate by generating the Baseline data for Air, water and Noise quality for 1 month.

**3.5: Proposal for TOR Limestone mine with the production of 60000 TPA Limestone on lease area 4.98 ha located at Village Daikhan Banjar, Khrew, Tehsil, Pampora, District, Pulwama, State, Jammu and Kashmir proposed by Mr. Waqar Asif - [Proposal No. IA/JK/MIN/197355/2021, File No. J-11015/15/2021-IA.II(M)] - Terms of Reference (Violation ToR)**

The Proposal of M/s Waqar Asif is for grant of Term of Reference for Limestone mine with the production of 60,000 TPA Limestone on lease area 4.98 ha located at Village Daikhan Banjar, Khrew, Tehsil Pampora, District Pulwama, State Jammu and Kashmir. The mine lease area is located between Pillar C Latitude 34°03'38.44"N, Longitude 75°00'02.05"E, Pillar C Latitude 34°03' 43.44"N, Longitude 75°00'02.05"E, Pillar D Latitude 34°03'46.36"N, Longitude 75°00'09.39"E, Pillar E Latitude 34°03'45.56"N, Longitude 75°00'11.63"E. Pillar E Latitude 34°03'38.46"N, Longitude 75°00'11.67"E., and within survey of India Toposheet Nos. 43 N/4.

2. As per EIA Notification dated 14<sup>th</sup> Sept, 2006 and its subsequent amendments, the project falls under Project Activity 1 (a) of non-coal mine category 'A' due to Dachigam National Park situated at a distance of 2.7 Km in NE direction.
3. The Project Proponent submitted that the mining lease has been granted by the State Government in the favor of Mr. Waqar Asif, vide order no 46-IND of 2011 dated 10.03.2011. The lease deed has been executed on 05.08.2011 and valid till 04.08.2031.
4. The Project Proponent submitted that the earlier the mining plan along with the mine closure plan has been approved by the Indian Bureau of Mines vide letter no 614 (2) MP-B-248/06-Dehradun dated 02.02.2012.

Approval of Review and updation of Mining plan and mine closure plan has been done by Indian Bureau of Mines vide letter no. 614 (2) MP-B-248/06-Dehradun dated 14.07.2017.

Mine was working since 2011-12 and the CTE for the same mine has been granted by J&KPCB vide letter no SPCB/digital/ 1904452951 of 2019 dated 08.01.2019.

This is a violation as per S.O. 804 (E) dated 14.03.2017 under the EIA notification 2006.

The reasons for violation are:

The mining was carried out without obtaining EC since the inception of mine lease. The detail of past production, certified by District Mineral officer has been issued vide letter no DMO/MAJOR/PUL/MS/DGM/WAR/20-21/05 dated 17.05.2020 Year wise production detail of the mine is attached:

S.No.	Year	Production (Metric Tonns)
1	2011-12	25700
2	2012-13	34259
3	2013-14	31830
4	2014-15	20549
5	2015-16	18340
6	2016-17	27080
7	2017-18	29114
8	2018-19	24103

5. The Project Proponent vide email dated 23.02.2021 requested to defer the above proposal for consideration in the next EAC meeting. Based on the discussion held and Email received from the Project proponent, the Committee **deferred** the proposal for TOR Limestone mine with the production of 60000 TPA Limestone on lease area 4.98 ha located at Village Daikhan Banjar, Khrew, Tehsil, Pampora, District, Pulwama, State Jammu and Kashmir in the EAC meeting held on 24th to 26th February, 2021 for the following shortcomings:

- i. The project proponent needs to submit KML file showing the Mine lease area with the nearby Dachigam National Park.
- ii. The project proponent should submit the valid lease documents showing their lease validity.
- iii. The project proponent should submit the CTE again as the documents submitted was not properly readable.

**List of members of Expert Appraisal Committee participated through VC**

S.No.	Member Name	Member Address	Designation	24 <sup>th</sup> Feb, 2021	25 <sup>th</sup> Feb, 2021	26 <sup>th</sup> Feb, 2021
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra	Chairman	Yes	Yes	Yes
2	Dr. Ajay Deshpande	Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	Yes	No	No
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad- 500025, Andhra Pradesh	Member	Yes	Yes	Yes
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, Nyay Khand -1, Indrapuram, Ghaziabad- 201014	Member	Yes	Yes	Yes
6	Dr. (Ms.) Asha Rajvanshi	Wildlife Institute of Inida, Chandrabani, Dehradun- 248001	Member	Yes	Yes	Yes
7	Shri G.P. Kundargi	Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra	Member	Yes	Yes	Yes
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	Yes	Yes	Yes
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	Yes	Yes	Yes
11	Prof. MukeshKhare	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	No	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
14	Sh. AftabAhmend	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 <sup>nd</sup> Floor, Prithvi Block, Indira Paryawaran Bhawan, MoEF&CC, Jorbhag, New Delhi- 110003	Member Secretary-I	Yes	Yes	Yes

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