

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

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**SUMMARY RECORD OF 26<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 26<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 11-13<sup>th</sup> January, 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 25<sup>th</sup> EAC Meeting held during December, 22-24, 2020**

The minutes of 25<sup>th</sup> EAC Meeting held during December, 22-24, 2020 was placed before the members of the Committee. The Member Secretary informed the Committee that the following corrigendum was made in 25<sup>th</sup> EAC Meeting held during December, 22-24, 2020 as given below:

<b>Agenda No.</b>	<b>As per EAC meeting minutes dated on 22-24 Dec., 2020</b>	<b>PP requested for amendment/typ error</b>	<b>EAC recommended during 26<sup>th</sup> EAC on 11-13 January, 2021</b>
3.4	Page No. 50, Para 12 (i), Line No. 1  Since Steel grade lime stone (1.25 mtpa) is available only for <b>one</b> more year as per the submission of the PP, the EC is amended to extract the steel grade limestone for next <b>one</b> year with a permission to utilize or sale associated sub grade mineral up to an overall total of 2.73 MTPA as covered under EC	Since Steel grade lime stone (1.25 mtpa) is available upto next 5 years as per the submission of the PP, the EC is amended to extract the steel grade limestone for next <b>five</b> years with a permission to utilize or sale associated sub grade mineral up to an overall total of 2.73 MTPA as covered under EC already granted.	PP will continue to take out steel grade lime stone @1.25 MTPA is available upto next 5 years as per the submission of the PP, the EC is amended to extract the steel grade limestone for next <b>five</b> years with a permission to utilize or sale associated sub grade mineral not exceeding the limit of total excavation quantity that is 2.73 MTPA. The proposal is also

	already granted.		recommended for accessing fine dumps deposited till March 2020. Excavation quality including steel grade lime and fines (associated or from dump) not to exceed any time the ceiling of total excavation 2.73 MTPA.
1.5	Reference Page no.17 (M/s ACC Limited)	-	Added (viii)- The State Government/SPCB to take action against the project proponent under the provisions of the Environment (Protection) Act, 1986.
2.4	Reference Page no. 32 (M/s ACC Limited)	-	Added (viii)- The State Government/SPCB to take action against the project proponent under the provisions of the Environment (Protection) Act, 1986.
3.2	Reference Page no. 45 (M/s Shree Digvijay Cement Gujarat)  Based on the documents submitted and presentation made by the project proponent and the consultant, the Committee recommended the proposal for Terms of Reference under Ministry's notification S.O. 1530(E) dated 6th April 2018 of Limestone Mine with	-	Based on the documents submitted and presentation made by the project proponent and the consultant, the Committee recommended the proposal for Terms of Reference under Ministry's notification S.O. 1530(E) dated 6th April 2018 of Limestone Mine with the production capacity of 0.715 MTPA with the mine lease area <b>178.00 ha</b> of Chorbedi-1 captive limestone mine located at Village:

	<p>the production capacity of 0.715 MTPA with the mine lease area 254.89 ha of Chorbedi-1 captive limestone mine located at Village: Chorbedi, Taluka: Lalpur, District: Jamnagar, Gujarat of M/s Shree Digvijay Cement Co. Ltd</p>		<p>Chorbedi, Taluka: Lalpur, District: Jamnagar, Gujarat of M/s Shree Digvijay Cement Co. Ltd.</p>
3.3	<p>Reference Page no. 47-48 (M/s Gujarat Mineral Development Corporation Limited)</p> <p>The Committee recommended the proposal for extension of validity of Environmental Clearance letter no. J11015/336/2005-IA.II (M) dated 10.11.2006 till 31.03.2030 for Bauxite Mine with production capacity of 2.625 MTPA from the mine lease area 129.33 ha located at Village Naredi, Tehsil Abdasa, District Kutch, Gujarat by M/s Gujarat Mineral Development Corporation Limited.</p>	-	<p>The Committee recommended the proposal for extension of validity of Environmental Clearance letter no. J11015/336/2005-IA.II (M) dated 10.11.2006 till 31.03.2030 for Bauxite Mine with production capacity of 0.225 MTPA from the mine lease area 129.3353 ha located at Village Naredi, Tehsil Abdasa, District Kutch, Gujarat by M/s Gujarat Mineral Development Corporation Limited.</p>

**DAY-1 (11 JANUARY, 2021)**

**1.1: Enhancement of Iron Ore mining capacity from 0.05 MTPA to 2.95 MTPA with 1.0 MTPA Beneficiation plant at the mining lease area 192.25 Ha of M/s**

**Jayaswal Neco Industries Limited located at village – Chhotedongar, Tehsil and District – Narayanpur, Chhattisgarh - [Proposal no: IA/CG/MIN/181523/2019; File No. J-110105/62/2019-IA. II(M)] – Environmental Clearance (EC)**

The proposal of M/s Jayaswal Neco Industries Limited is for Enhancement of Iron ore mining capacity from 0.05 MTPA to 2.95 MTPA with 1.0 MTPA Beneficiation plant in the mining lease area of 192.25 Ha located at village – Chhotedongar, Tehsil and District – Narayanpur, Chhattisgarh. The mine lease area falls under the Survey of India Toposheet No 65 E/7 and bounded by latitude 19°25'40.356"N - 19°27'09.423"N and longitude 81°15'37.175"E - 81°17'34.507"E.

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

3. The Project Proponent applied for Terms of Reference (TOR) vide Proposal No: IA/CG/MIN/108636/2019 dated 20.06.2019 and submitted the requisite information and documents. The proposal was considered in the EAC meeting held during 27-28 August, 2019 wherein the Committee recommended for issue of Terms of Reference and the Ministry accorded TOR to M/s Jayaswal Neco Industries Limited on 20.03.2020. PP also submitted that the Environment Clearance was granted by the Ministry vide Letter No. J-11015/152/2005-IA.II (M) dated 05.02.2007 under EIA Notification, 2006 to M/s Jayaswal Neco Limited for iron ore mining with production capacity of 50000 tonnes per annum (0.05 MTPA). PP mentioned that the company name has been changed from M/s Jayaswal Neco Limited to M/s Jayaswal Neco Industries Limited on 05.11.2007. Thereafter, PP applied for Transfer of EC for name change vide Proposal No. IA/CG/MIN/121273/2019 dated 18.10.2019 and accorded Transfer of EC vide F. No. J11015/62/2019-IA.II (M) dated 09.10.2020 in the name of M/s Jayaswal Neco Industries Limited.

The Project Proponent applied vide proposal no. IA/CG/MIN/181523/2019 for grant of EC and submitted the Form 2 and EIA Report after conducting the Public Hearing. As the complete details was not provided an EDS was raised on 11.11.2020 for submission of requisite information. PP uploaded the information in the PARIVESH vide Lr JNIL/MoEF/CD/2020/452 dated 12.11.2020 and the proposal was placed in the 24th EAC meeting held during 09-11<sup>th</sup> December, 2020 and the Committee after detailed deliberations deferred the proposal for the want of the requisite information. PP submitted the requisite information vide Lr. JNIL/ENV/Chhotedongar/2020/170 dated 19.12.2020 as mentioned below and the proposal now again considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021.

i. PP shall submit the details of Land Use of area available with Forest Clearance is inside the Mine Lease i.e., about 29 Hectares, for the various activities proposed like Mining, Workshops, Office, Crushing Plant, Beneficiation Plant and area earmarked for Safety Zone Plantation.

Reply by PP:PP submitted the Surface plan of the area 35.74 Ha and plan showing proposed mine workings in 35.74 Ha Area out of total 192.25 Ha lease area.

Sr. No.	Description	Area in Ha
1	Area under Mining	17.58
2	Storage for Top Soil	0.00
3	Waste Dump Site	0.50
4	Mineral Storage	0.50
5	Dump Yard for solid moist waste generated from Beneficiation Plant	2.00
6	Area under Office, Environment lab, Rest Shed, Toilet, oil dispensing unit etc.	0.25
7	Area under roads	8.09
8	Mineral Beneficiation Plant	4.00
9	Garland Drain & Check dam	0.50
10	Safety zone & Plantation 7.5 Mtrs	1.42
11	Unutilized area	0.90
	<b>Grand Total</b>	<b>35.74</b>

Land Use	Area in Ha	Anticipated Post-mine closure land use
	At the end of lease period	
Area under Pits	155.31	Water reservoir
Area under Mine Roads	14.94	Public utility
Area under Infrastructure (Mine Office, Environment Lab, Rest Shed, Toilet, HSD Dispensing Unit etc)	1.00	Public utility
Area under Mineral Storage	1.00	Plantation
Area under Waste Dump	5.00	Plantation
Area under Plantation (Safety zone)	8.00	Plantation
Area for Garland Drain	1.00	Plantation
Surface Water Bodies	0.00	---
Settlements	0.00	---
Others (Specify): As under -	--	---
Beneficiation Plant	4.00	Plantation, after dismantling the plant
Tailing Waste Disposal	2.00	Plantation
<b>Total Project area =</b>	<b>192.25</b>	

ii. PP needs to submit the grade and size of fines being sent to Beneficiation Plant and quantities (Percentage) and grades of concentrate and rejects.

Reply by PP:

Sl. No	Process description	Size in mm	Quantity in MTPA*	Fe %	% of feed
1	Input Feed to Ground Hopper	0-10	0.885	52.50	-
2	Output Primary Wet Screen	6-10	0.262	63.11	29.60
3	Output Secondary Wet Screen	3-6	0.147	62.05	16.60
4	Output Magnetic Separator (Mag)	<0.5	0.070	64.23	7.90
5	Output Hydro Cyclone 2 ( Non Mag)	<0.5	0.189	60.38	21.40
6	Rejects (Solid Moist waste)	<0.5	0.217	22.52	24.50
	Total				100 %

Fe% Balancing =  $((0.262 \times 63.11) + (0.147 \times 62.05) + (0.070 \times 64.23) + (0.189 \times 60.38) + (0.217 \times 22.5)) / 0.885 = 52.50\%$  Input feed material has 52.50% average Fe.

iii. PP also needs to provide water handling of proposed wet screening.

Reply by PP:

	Process description	KL/day	Losses / day	Recycled	Remarks
A	Primary Wet Screen	900	231	1913	Water Recovered after completing the process and pumped in the process back with addition of 245 KL fresh water per day.
B	Secondary Wet screen	660			
C	Ball Mill and Tertiary wet screen	360			
D	Hydro Cyclone - 1	24			
E	Flocculent Station	80			
F	Hydro Cyclone - II	48			
G	Dewatering Screen 1	24			
H	Dewatering Screen II	48			
I	Dust Separation and Plantation	12	12	0.00	
J	Drinking and Sanitation	2	2	0.00	
	<b>Total</b>	<b>2158</b>	<b>245</b>	<b>1913</b>	

iv. PP should bring out the material balance, mass balance, equipment flow sheet, process of beneficiation plant with flow charts along with the environmental impacts in the EIA/EMP report.

Reply by PP: PP submitted the flow chart for Mining, Screening & Beneficiation plant along with the material balance, process and environmental impacts.

<b>During Mining, Crushing and Screening</b>		
<b>Unit</b>	<b>Identified Impacts</b>	<b>Mitigation Measures</b>
Grizzly section & Rock breaker	Dust emissions	Provision of Mist spray system, Covered screening section
Jaw crusher	Dust emissions	Completely covered crusher, with fogging arrangement
Cone Crusher	Dust emissions	Completely covered crusher, with fogging arrangement
Multi-deck screen	Dust emissions	Completely covered screens
Belt conveyors	Dust emissions	Closed belt conveyors, mist spray system at transfer chutes
Ground hopper	Dust emissions	Water Sprinkling (Mist Spray)
Beneficiation Process	Dust emissions, generation of process effluent	Wet Beneficiation process, treatment of process effluent in Thickener & reuse of treated effluent in beneficiation process
Mineral transport	Dust emissions, Exhaust emissions	Tarpaulin covered trucks / tippers will be used for mineral transportation, water sprinkling will be done during mineral transport on haul road up to the State Highway on regular basis, maintenance of transport (haul) road, intensive plantation along transport road, regular maintenance of transport vehicles, ensuring PUC compliance in vehicles used for mineral transport
Tailings storage	Dust emissions,	There will be no silt wash off during rainy season or dry season as the tailing's will be converted into cake by using filter press (photographs enclosed). However retention wall be constructed around the tailing dump, Construction of garland drains, settling tanks, Necessary Plantation of grasses on inactive slopes of tailing dump (if any) .

v. PP should carry out a detailed risk assessment study for use of explosives, storage of explosives and transportation of explosives.

Reply by PP:

Particulars	Our Clarification
Use of explosive	In the mining lease are the rocks are mostly soft rocks which will not require any blasting. In case of any requirement low intensity blasting will be done with Nonel and Site Mix Emulsion "SME". This blasting will be done through licensed agency only.
Permission from State Government	No General Permission is Granted in these regions as being declared as highly sensitive due to LWE infestation. Every time the explosives are to be used necessary permission for the use needs to be taken from the District Administration. Along with every permission necessary security arrangements are provided by the District administration for transportation, blasting and back.
Storage of Explosives	There will be no storage of explosives at mine site, as the area is highly sensitive and State Government don't permit storage of explosive in this region.
Transportation of Explosive	In the Baster region which is a declared sensitive zone, for every time when the explosives are to be used, we need to take Permission from the District Administration. In turn District Administration provides permission as well as complete security arrangement for transportation of explosives to site, during blasting and returning back.

Risk Assessment	Type of risk	Mitigation Measures
During transportation.	Probability of Loot and arson.	For every transportation being done, full security cover will be provided by the District administration and hence it will be protected from end to end.
During Blasting	<ul style="list-style-type: none"> <li>a. Flyrock</li> <li>b. Noise</li> <li>c. Injury</li> <li>d. Vibration</li> <li>e. Subsidence</li> </ul>	<ul style="list-style-type: none"> <li>a. Since low intensity blast with NONEL technology chances of such occurrence are limited or non existence. However as per the laid down SOP 30 minutes prior to blasting a siren will blow which will indicate the blasting and all the working area will be stopped and manpower will be pulled back and parked 50 meters away from the blasting site. All the workmen will be provided with ear plug so as to ensure that there is no impact of noise on the working personals.</li> <li>b. Injury due to Fly rock. Since low intensity blast with NONEL technology chances of such occurrence are limited or non existence. However working personals will</li> </ul>

		be pulled back to 50 meters from the blasting site, which will eliminate the risk of any physical injury, however necessary first aid provisions will always be ready at the site to handle any such eventualities.
During Blasting	d. Vibration e. Subsidence	d. As per the lithology of the area the mining will be carried out with rock breakers and excavators, however if blasting is required low intensity blasting will be required. Since the area don't have any human habitat in around 4 to 6 kms, hence this moderate vibration will not have any impact on the area. e. Subsidence :- Since the blasting will be of NONEL and SME / SMS technology the impact of blasting will be very localized, and if any subsidence occurs it will be only restricted to the blasting site.
During Storage	Theft / Pilferage/ Fire/ accident	Since Storage is not permitted in this region, hence this risk stands mitigated generally.

vi. PP should also submit the letter from the State Govt. for use of conventional explosives and storage of explosives in sensitive areas.

Reply by PP: No General Permission is granted in these regions as being declared as highly sensitive due to LWE infestation. Every time the explosives are to be used necessary permission for the use needs to be taken from the District Administration. Along with every permission necessary security arrangements are provided by the District administration for transportation, blasting and back. There will be no storage of explosives at mine site, as the area is highly sensitive and State Government don't permit storage of explosive in this region.

vii. PP needs to submit the letter from the State forest and wildlife department that there is no National Park, Wildlife Sanctuary, Biosphere Reserve and Migratory Corridor of Wild animals up to 10 km from the mining lease area.

Reply by PP:PP submitted the letter from District Forest Office, Narayanpur vide Lr.S.No/Mahi.chi/6199, Narayanpur dated 06.12.2019 that the mining is allowed in 35.74 Ha and there is no protected area within 10km radius and letter from PCCF (Protection of Wild Life & Biodiversity) cum Chief Wild life warden vide Ref: WL/Management-483/2019/6284 Nava Raipur dated 19.12.2019 that there is no reserved area within 10 km radius and certified copy of flora and fauna.

viii. PP needs to submit the letter from the forest department for access road.

Reply by PP:PP submitted the letter from Ministry of Environment & Forests vide F.No.8-31/99-FC dated 11.08.2004 for diversion of approach road 8.09 ha.

4. The Project Proponent submitted that the Government of Chhattisgarh vide Letter No-3-52/98/12/2, Bhopal dated 21.05.1998 issued Letter Of Intent for grant of mine lease of iron ore over 192.25ha, located at village – Chhotedongar, Tehsil and District – Narayanpur, Chhattisgarh for a period of 30 years. The State Government of Chhattisgarh granted mining lease over 192.25Ha vide Letter No. F-.3-52/98/12/2 dated 05.05.2005. PP submitted that the mining lease agreement was executed on 21.06.2005 for a period of 30 years with effect from 21.06.2005 to 20.06.2035. Since the Mining Lease is a captive lease for the Integrated Steel Plant of JNIL, as per the provisions of the Mines & Minerals (Development & Regulation) Amendment Act, 2015, the period of lease was extended to 50 years from the date of execution of the Lease deed. Accordingly, the District Collector issued letter vide Lr No. Khanij/Khanipatta-01/05/2016/1512, Narayanpur dated 27.06.2016 and the Mining Officer vide Letter No. 1966/Khanij/KhaLip1/ML8/96/2016, Jagdalpur dated 09.08.2016 for execution of the Supplementary Lease Agreement. The Supplementary Lease Agreement was executed on 08.08.2017 in the name of M/s JayaswalNeco Industries Limited extending the mining lease over Chhotedongar Iron Ore Deposit up to 20.06.2055.

5. The Project Proponent submitted that the Review of Mining Plan along with Progressive Mine Closure Plan was approved by Indian Bureau of Mines (IBM) vide letter Narayan/Iron Ore/MP-1220/2018-Raipur/573 dated 17.12.2019 for the period of 2020-21 to 2024-25 in the name of M/s Jayaswal Neco Industries Limited.

6. The Project Proponent submitted that the mining will be carried out by mechanized opencast method which involves drilling, blasting, crushing and screening, washing, loading, and transportation with the combination of with the combination of excavator, rock breaker, wagon drill of 100 mm diameter for blast hole drilling, air compressor, ripper dozer, hyva dumper, pay loader, truck mounted water sprinkler, weigh bridge, storage system of fuel oil with dispensing unit, crushing & screening units, beneficiation plant, hired trucks for transporting mineral, ambulance, DG sets, water pump etc.

The Project Proponent submitted that the Geological mineral reserves are estimated as 87.046 Million Tonnes and the Mineable reserve are 77.521 Million Tonnes. Considering ROM production @ 2.95 MTPA the anticipated life of whole of the mine will be about 27 Years. PP reported that daily 54 holes will be drilled for blasting, the requirement of explosives is 1051 kg/day (1946 kg x 54) and the NONEL (non electric delay detonators) shall be used for blasting. It is estimated that about 64,000 Cum waste shall be generated during the proposal Period. This waste shall be in the form of Overburden, Side Burden or Intra-burden. The earmarked Waste Dump Site is located towards south-east of working pit within diverted land of 27.65 Ha. Thus, at the end of Conceptual Period in the said mining block there will be a quarry of 17.58 Ha from 862m to 808m i.e. 54m depth comprising of 9 Numbers of benches each of 6m height and 9m width. Overall slope of the quarry will be maintained at 35°. The excavated ROM will be transported to the Crushing and Screening unit with a capacity of 1000 TPH located inside the lease area for sizing and screening. The lump to fines ratio at precrushing stage is expected to be about 1:0.30. The graded lumps and fines with requisite Fe content shall be directly discharged to the Integrated Steel Plant. Some part of the ROM shall be sent to Beneficiation Plant from where two products viz. Concentrates and Tailings would be available. As the Tailings would also be having about 20% to 22% Fe content, it is proposed to sell this waste to cement plant / brick manufacturing unit / tiles manufacturing unit or will be blended with graded ore and sold. The mined Iron Ore Lumps and beneficiated Iron Ore Fines suitable for use in the ISP shall be loaded into the trucks and shall be sent to the designated Weighbridge for weighing and for onward dispatch to the Integrated Steel Plant of the Company located at a distance of about 260 Kms from the Mine in Siltara Growth Centre near Raipur. The proposed road for the transport of iron from the mine face to end user passes through forest land and specific permission for the transport of iron ore from the forest land has been obtained.

7. The Project Proponent submitted that the hydro geological study concludes that there is no intersection of ground water during mining down to the depth of 75 m bgl. The maximum RL of mine bottom will be 808 m AMSL whereas water table will be below 600 m AMSL. The depth of water level in pre-monsoon is in the range of 5.30 to 9.60m bgl and in post monsoon period is in the range of 0.70 to 4.36m bgl. The average annual fluctuation in the area is 5.03m. PP submitted that the out of 330 KL/Day water requirement, 325 KL/Day water shall be sourced from Madin River and perennial Nalla locally named Kadam Nalla located at 3 Km away from the mining Lease area. It is proposed to deploy 4 numbers of water tankers each having 10 KL capacity for carrying water from River / Nalla to Mine Site for using it for various purposes. The 5 KL/ Day domestic water requirement shall be sourced from the Bore Well proposed to be sunk near foot hill region of the mine site. Potable water will be pumped through bore well and shall be supplied to the mine site through separate water tanker. PP submitted the NOC for ground water abstraction for 5.0 m<sup>3</sup> /day obtained from CGWA vide CGWA/NOC/MIN/ORIG/2020/7734 which is valid

from 18.03.2020 and valid up to 17.03.2022. PP also informed that the application for use of surface water from Madin River / Kadam Nalla of 330m<sup>3</sup> /day submitted to WRD, Chhattisgarh. PP submitted that the process waste-water generated from the plant will be treated in thickeners and will be re-circulated. Excess water from the processed ore will be recovered through Dewatering screens and that from tailings will be removed through pressure filter technique and the water thus collected will be re-circulated in the process. Thus, there will be only a net process water loss of about 231 m<sup>3</sup> /day in the form of moisture in finished product and tailings.

8. The Project Proponent submitted that the total area proposed under plantation shall be 21 Ha which will bring about 11% of the Project Area. Considering rate of 2000 trees per hectare, the Project involves plantation of 42,000 trees in 27 years of the Mine Life. Species proposed for greenbelt development are Azadirachta indica (Neem), Acacia nilotica (Babool), Punica granatum (Anar), Terminalia arjuna (Arjuna), Ziziphus mauritiana (Ber), Mangifera indica (Aam), Musa acuminata (Banana), Dalbergia sissoo (Shesham) Ficus religiosa (Pipal), Ocimum sanctum (Tulsi), Syzygiumcumini( Jamun), Tamarindus indica (Imli) etc. having survival rate of more than 90%. PP submitted that the budget earmarked for the green belt including plantation shall be Rs 50 lakhs.

9. The Project Proponent submitted that the total land in the mining lease area (192.25 ha) is forest land for which the Government of Chhattisgarh (Forest Department) had recommended the total 192.25 hectare mining lease area for grant of Stage 1 Approval vide letter No F5/69/98/10/3 dated 07.12.1998. MoEF& FC granted in-principle approval for diversion of forest over an area of 91 Ha, the MoEF&CC has accorded Final Approval (Stage – II) over an area of 35.74 Ha (27.65 Ha for mining and other purposes over Ore Body - I and 8.09 Ha for Approach Road & Infrastructure) in 1st phase vide Letter No. 8- 31/99-FC dated 18-01-2007. Out of 35.74 Ha, the Forest Department granted permission to enter upon 5 Ha land vide Letter No. Ma Chi/593 dated 05-02-2016. Stage II (Final Clearance) for the balance 55.26 Ha Forest area is in process and for 101.25 Ha, Stage I (In principal Approval) is also initiated. However, NPV for the total 192.25 Ha had been deposited in the Adhoc-CAMPA fund. The Project Proponent has deposited NPV of Rs. 16,94,70,330/- (Rupees Sixteen Crore Ninety Four Lakh Seventy Thousand Three Hundred and Thirty Rupees Only) for 192.25 ha. Besides this, payment for compensatory afforestation for 91 Ha and safety zone of 8.0 Ha of Rs. 1,69,81,118/- and Rs. 6,62,175/- respectively has been deposited to the competent authority. After the payment of NPV by Company, the State Government has initiated and forwarded the detailed status of the proposal to the MOEF for necessary action on balance land 101.25 hac. MOEF has asked the State Government to submit required latest status regarding 101.25 ha balance land and compliance of stage 2 of balance land of 56 Ha. PP also submitted that the mining lease area is located in the Chhotedongar Reserved Forest and is surrounded by forest land in all directions and there is no

National Park, Wildlife Sanctuary, Biosphere Reserve and Migratory Corridor of Wild animals up to 15 km from the mining lease area.

10. The Project Proponent submitted that there is no presence of Schedule-I species and submitted the letter from the Forest Department dated 19.12.2019 for authenticated list of flora and fauna, distance from protected area and involvement of forest land.

11. The Project Proponent submitted that the baseline data for ambient air quality (PM10, PM2.5, SO<sub>2</sub> & NO<sub>2</sub>), water quality, noise level, soil and flora & fauna was generated for the period during March-May 2019 (13 weeks) & October - November 2019 (6 weeks) as per the CPCB norms. PP submitted that the air quality monitoring has been carried out at 6 locations. The air quality concentrations of PM2.5 and PM10 for all the 6 AAQM stations were found between 17.3 to 34.6 µg/m<sup>3</sup> and 31.9 to 59.6 µg/m<sup>3</sup> respectively. The concentrations of NO<sub>x</sub> and SO<sub>2</sub> were found to be in range of 7.1 to 23.3 µg/m<sup>3</sup> and 7.1 to 14.5 µg/m<sup>3</sup> respectively. AAQ parameters in the study area have been found well within prescribed norms. The noise Levels in the Chhote Dongar Iron Ore Mine lease buffer zone was observed in the range of 36.6 to 54.9 dB (A). PP further submitted that ground water samples were collected from 6 locations and surface water from 4 locations within study area. PP submitted that the overall quality of water samples indicated that the water quality of all the sources is satisfactory of the area are not polluted except the surface water samples which showed bacteriological contamination possibly from surface run-off. PP also submitted that total of 7 samples were collected from 7 different locations representing waste land, agriculture land and forest land at 3 different depths viz. 0-30, 30-60 and 60-90 cm below the surface. The forest land soil is found to have sufficient nutrients. The agricultural land soils are also found suitable for cultivation of climatic crops and have good fertility. PP submitted that post project concentration of various air pollutants is well within the prescribed standards.

12. The Project Proponent reported that Public Hearing for the project was conducted on 09.10.2020 by Chhattisgarh Environment Conservation Board. The advertisement for public hearing was published in "Patrika" dated 06.09.2020 and "Business Standard Newspaper" dated 07.09.2020. Considering the prevailing of COVID19 situation, the District Collector had ensured in the advertisement itself that all the protocol specified by the Central/State Government shall be strictly adhered to during the conduct of the said Public Hearing. The Public hearing was conducted under the chairmanship of District Collector, Narayanpur at Post Matric Boys Hostel, Village Chhotedongar, Tahsil and District Narayanpur. The Public Hearing was attended by around 200 persons out of which 183 persons have signed on the register while 76 persons (which include local males, females, unemployed youths, social workers and eminent elders) expressed their view during the course of Public Hearing. The issues raised during public hearing were also deliberated during the meeting are mainly on Employment, Health, Education, Drinking Water, Roads, Renovation of Temple, mobile network. PP submitted that to utilize the funds

allocated under CER for complying with the issues raised during public hearing for the project.

13. The Project Proponent submitted that the capital CSR Budget has been worked out as per the expressed felt needs of villagers during Rapid Rural Appraisal. The proposed total capital budget is to the extent Rs. 30.85 Lakhs (Rupees Thirty Lakhs & Eighty five Thousand Only) and will be spent in core and buffer villages of study area during the first five years. About Rs. 23.90 (Rupees twenty three lakhs ninety thousand only) would be spent as recurring expenditure for CSR activities respectively in the first five years. In addition to the CSR, JNIL proposes to undertake a number of activities as one time measure under the Corporate Environment Responsibility Initiative during the operation of Chhotedongar Iron Ore Mining Project. A budgetary provision of Rs. 85.58 Lakhs is proposed to be made for implementing the CER Activities. In line with the MoEF&CC OM dated 30<sup>th</sup> September 2020 and 20<sup>th</sup> October 2020.

14. The Project Proponent has submitted that the entire 192.25 Ha leasehold area of the Chhotedongar Deposit is forest land, the question of R & R does not arise in this Project. However, though the Action Plan against R & R is not required, a specific action plan towards the Project Affected Persons (PAPs) shall be required. It is proposed to provide Skill development training to enhance the employability and self-employment for the local villagers, Services and Support of Social Organizations will be sought for assessment of felt needs of PAP's, Preference to procurement of support material or services, Involvement in plantation and allied activities, Support for non-farm activities for desiring persons, Medical checkups and appropriate support for medical facilities.

15. The Project Proponent submitted that the Capital Budget for Environmental Protection Measure is estimated to be Rs. 570.00 Lakhs and the Recurring Budget is estimated to be Rs. 65.00 Lakhs. The capital cost includes the following i) Rs 165.0 Lakhs for Air Pollution Control, ii) Rs 170 Lakhs for Water Pollution Control, iii) Rs 6.0 Lakhs for Noise & Vibration control, iv). Rs 55.0 Lakhs for Pollution monitoring, v). Rs 50.0 Lakhs for Conservation of Natural Resources vi). Rs 50.0 Lakhs for Greenbelt Development, vii). Rs 34 Lakhs for Occupational health and viii). Rs. 40.0 Lakhs for Miscellaneous purposes.

16. The Project Proponent submitted that for the safety of workers engaged at the dust generation points like drills, loading & unloading points, crushing etc., dust masks will be provided to prevent inhalation of RSPM/dust thereby reducing the risk of lung diseases and other respiratory disorders. Regular health monitoring of workers and nearby villagers in the impacted area, will be carried out by JNIL. In addition, the company will also carry out regular occupational health assessment of employees as per government regulations. All the employees in the mine and beneficiation plant will be subjected to pre-employment & periodic medical examination to assess the occupational health impacts. The tests will be conducted

as per Form O as given in Mines Rules 1955. PP also submitted that periodical medical examination (Once in 3 years for >45 years age, once in 5 years once in 5 years <45 years age) & PPE for 30% of workers & Health insurance and training for all employees. PP reported that the total budget earmarked for occupational health is Rs 35.63 Lakhs (Capital) and Rs 22.05 Lakhs for (Recurring).

17. The Project Proponent submitted that the certified monitoring report for compliance of previous environmental clearance conditions from Regional Office of MoEF&CC vide F.No. : EC-3- 12/2007(ENV)/5937 dated 29.11.2019. PP also submitted the Consent to Establish (CTE) issued by Chhattisgarh Environment Conservation Board, Raipur vide Letter No. 3409 dated 12.06.2007. Consent to Operate (CTO) issued by the Regional Office (RO), Chhattisgarh Environment Conservation Board, Jagdalpur vide Letter No. 1841/RO/TS/CECB/ 2018 dated 07.03.2018 for 3 years from 01.04.2018 to 31.03.2021. 18. PP submitted the affidavit dated 16.07.2019 as per Ministry's O.M No 3- 50/2017 -IA. II(M) dated 30.05.2018 and mentioned that the company will comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2<sup>nd</sup> August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. The affidavit also mentioned the environmental clearance will not be operational till such time that the company complies with all statutory requirements and judgment of Hon'ble Supreme Court dated the 2<sup>nd</sup> August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors as applicable. PP also submitted the authenticated production details vide letter dated 28.03.2018 for the year of 2015-16 and 2016-17 which was found within the EC capacity. Furthermore, PP submitted that the zero production for the year of 2017- 18, 2017-18 and 2019-20 (Up to May 2019) vide letter dated 22.06.2019 due to the Naxalite problem and other law and order issues. PP also submitted an undertaking vide letter dated 29.10.2020 that information and data incorporated in the report for obtaining Environment Clearance are true and factual to the best of our knowledge and belief and we take the ownership of the information and data given in the report. Consultant, SrushtiSeva Private Limited also submitted an undertaking vide letter dated 30.10.2020 that the data submitted is factually correct and we own the contents of information and data. Baseline environmental monitoring and analysis of air, water, noise, soil and meteorology have been carried out by M/s Nilawar Laboratories, Nagpur (NABL accredited).

19. The Project Proponent submitted that the total Project Cost of the Project been estimated at Rs. 8558.78 Lakhs and 225 people (165 people for mining & 60 people for Beneficiation plant) will get employment in the mines.

20. The proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the committee noted that the presently PP is having Stage-II Forest Clearance for 35.74 Ha only; therefore the committee **recommended** the proposal for grant of environmental clearance for enhancement of Iron Ore mining capacity

from 0.05 MTPA to 2.95 MTPA with 1.0 MTPA Beneficiation plant in the mining lease area 35.74 Ha of M/s Jayaswal Neco Industries Limited located at village – Chhotedongar, Tehsil and District – Narayanpur, Chhattisgarh State subject to the following specific conditions:

- i. Project proponent shall not use the filter cake either for road making or pit filling till the suitability test is carried out. Till then cake should be stored in a safe place without causing any environmental Impacts.
- ii. Tailings converted into cake by using pressure filter needs to be tested for its suitability either for making the road or to store in tailing dumps from environmental point of view such as dust generation etc. by the PP from the reputed agency like CRRI.
- iii. Project Proponent as given in the EMP must monitor noise, ground vibration and air quality all around the lease boundary of 35.74 Ha during blasting and to ensure that the impacts do not reach the nearby forest area.
- iv. As the Public Hearing has been carried out for the entire 192.25 Ha, PP after taking Stage-II Forest Clearance for remaining area i.e. 55.26 Ha; may again approach the Ministry for undertaking mining in the remaining area with the proper mining plan.
- v. All the public concerns as expressed and mentioned in the EIA report be implemented and addressed by the project proponent within a year from the start of mining operations.
- vi. Project Proponent should undertake the peripheral plantation as shown in the surface plan for 35.74 Ha within a period of 6 months with the seedlings of 6-8 ft height having at least 90% survival rate
- vii. The Project Proponent submitted that the recycled water will be 1913 KLD. It should be ensured that the EMP including tertiary treatment as mentioned in the EIA report shall be implemented and spillage of water outside the ML shall not be permitted.
- viii. Project Proponent shall obtain permission for withdrawal of ground water as well as using surface water from River/Nallah from the concerned authority before starting the mining operation.
- ix. The Project Proponent shall include the budget for the betterment of schools nearby and also to facilitate the online education system by providing Wi-Fi connectivity and desktops/tablets.

**1.2: Maliparbat Bauxite Mine of M/s Hindalco Industries Limited for a production capacity of 0.6 MTPA over an ML area of 268.110 Ha at Aligaon, Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha - [Proposal no: IA/OR/MIN/189627/2020; File No. J-11015/79/2020-IA-II(M)] - TOR**

The Proposal of M/s. Hindalco Industries Limited is for grant of Terms of Reference for a production capacity of 0.9 MTPA over an ML area of 268.110 Ha at Aligaon, Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha. The mine is located between latitude 18° 39' 32.810" to 18° 40' 28.384" N & longitude of 82° 53' 22.815" to 82° 55' 50.244" E, and within survey of India Topo-sheet Nos. 65J/13, J/14 and 65 N/2 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. Project Proponent earlier applied online for grant of Terms of Reference (ToR) vide proposal no. IA/OR/MIN/162409/2020 dated 05 Aug 2020 and the proposal was considered in the 23rd EAC meeting held on 24<sup>th</sup> September, 2020 wherein the committee observed that the "PP has operated the mines till 2013-14 without obtaining Environment Clearance under EIA Notification, 2006 and the PP did not submit the application as per notification no. S.O. 1530(E) dated 06.04.2018. The committee observed that the proposal falls under violation case and opined that this Committee is not empowered to consider violation proposals. The EAC returned the proposal in present form and suggested the PP to take further directions of the Ministry regarding consideration of the proposal."

4. The Project Proponent again applied online for grant of fresh Terms of Reference (ToR) vide proposal no. IA/OR/MIN/189627/2020 dated 28.12.2020 and submitted Form-1 & Pre-Feasibility Report and the proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021.

5. The project proponent has submitted that the mining lease of Maliparbat was issued to Hindalco from Department of Steel and Mines (Government of Odisha) on 19.06.2007 and the mining lease was executed on 08.11.2007. Maliparbat Bauxite mine was registered on 14.11.2007 in favour of M/s HINDALCO Industries Ltd for the term of 20 years. In view of section 8A (3) of Mines and Minerals (Development and Regulation) Amendment Act, 2015, the period of lease is deemed to have been extended for a period of 50 years from 14.11.2007 to 14.11.2057. The Maliparbat bauxite mine obtained Environment Clearance for 0.6 MTPA vide No.J-11015/411/2005-IA.II (M) dated 07.09.2006.

6. The Project Proponent submitted the approval of Review of Mining Plan along with Progressive Mine Closure Plan issued by Regional Controller of Mines, Indian Bureau of Mines vide letter no MS/OTFM/22-ORI/BHU/2017-18 Dated

14.11.2017.

7. The Project Proponent submitted that the Bauxite production will be achieved by opencast mechanized mining method. The main operation shall include removal and stacking of top soil and Overburden by excavator cum loaders, exposing the bauxite zone which will be followed by Bauxite excavation through controlled drilling & blasting and sizing through crusher. The total geological resource/reserves are estimated approx. to 15.06 MT. The total mineable resource/ reserves is estimated approx. to 14.74 MT. Based on total mineable reserves and average waste to ore ratio of 1: 0.05 Ton/m<sup>3</sup>, it is estimated that about 7,37,060 m<sup>3</sup> of waste will be generated throughout the life of mine. About 1, 39,700 m<sup>3</sup> of OB will be generated within the plan period based on planned exploration as per mine plan review. Dumping of over burden will be carried out in an area of 1.397 ha during plan period. The total area occupied at the end of plan period will be about 2.8 Ha. At the end of mine life there will be no external dump and entire OB dump will be rehandled in backfilled area. At the end of mine life, entire mined out area over 109 hectares will be back-filled and reclaimed / rehabilitated through backfilling and plantation from the end of existing plan period.

8. The Project Proponent submitted that nearest villages are Tentuliguda village (0.7 km, WSW) and Kakriguda (1.0 km, W), Primary School in Semiliguda village and Nearest Highway is NH-43 at 1.0 km, West.

9. The Project Proponent submitted that total water requirement is 61 KLD. The kundli nala is the source of water after treatment. The water permission to extract the water from kundli nala was granted by Irrigation dept. vide letter No. Irr-II. WRC45/06-13366/WR dated 21.04.2006 for drawal of 61m<sup>3</sup>/day. Effort will be made to avoid use of water from natural sources by creating rain water harvesting ponds with in mining lease area.

10. The Project Proponent submitted that the entire mined out area over 109 hectares will be reclaimed by way of concurrent back-filling and plantation. Area of 8.350 ha will be under green belt plantation. 12500 trees will be planted in about 5 ha. during plan period @ 2500 plants/ha.

11. The Project Proponent submitted that the entire lease area falls in hilly area under the revenue class of "Pahad and Parbat". There is no forest land in the M.L area and Pitagurha PF (8.9 km, WSW) and Dushura RF (9.7 km, WSW) is present in the 10km radius. The project proponent also submitted that there are no Ecological Sensitive Areas (wild life sanctuaries, tiger reserves, elephant reserves, national parks and biosphere reserves etc.) present within 10 km radius.

12. The Project Proponent submitted the order sheet dictating restraining orders from 500 meters of the Mining Lease boundary (of the said mine) promulgated u/r of Cr. P. C 144 issued by the District Magistrate of Koraput stating sufficient

evidence of public disorder and order to be enforced by Semiliguda Police Station.

13. The Project Proponent submitted that the total project cost is Rs. 24 crores and the funds allocated for EMP is 0.50 crores. The employment generated by this project is around 180 persons.

14. The proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. Based on the documents submitted and presentation made by the Project Proponent and the Consultant, the committee observed that the PP has obtained Environment Clearance on 07.09.2006 under the EIA Notification, 1994; validity of the EC was only for 5 years i.e. 06.09.2011 and the PP has operated the mines from 2012 to 2014 without obtaining Environment Clearance under EIA Notification, 2006, hence the proposal falls under violation case. The Committee also noted that PP did not submit the application as per notification no. S.O. 1530(E) dated 06.04.2018. The committee also observed that the project proponent could not be able to achieve the production capacity of 0.6 MTPA of Bauxite of earlier EC dated 07.09.2006. The Committee was of the view that the proposal cannot be considered for 0.9 MTPA of Bauxite and the production capacity will be restricted to 0.6 MTPA of Bauxite. Therefore, the committee **recommended** the proposal for grant of Standard Terms of Reference for undertaking detailed EIA/EMP study for a production capacity of 0.6 MTPA of Bauxite, over an ML area of 268.110 Ha of Maliparbat Bauxite Mine of M/s Hindalco Industries Limited located at Aligaon, Kankaramba, Sorishpadar Village, Pottangi Tehsil, Koraput District, Odisha State along with the following specific conditions:

- i. The State Government/SPCB to take action against the project proponent under the provisions of the Environment (Protection) Act, 1986.
- ii. The Project Proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the EAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
- iii. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
- iv. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage

assessed and economic benefits derived due to violation.

- v. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
- vi. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006.
- vii. Cost of the CER calculated shall be utilized for the concerns of the people in terms of health, education, and infrastructure and environment protection. PP 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.

**1.3: KJST Iron ore and Bauxite Mine of Shri Prabodh Mohanty (ML Area: 188.268 Ha) with expansion in Iron Ore Production Capacity from 2.0169 to 2.80 million TPA ROM (2.41 Million TPA Iron Ore + 0.39 million TPA Mineral Reject), Iron ore waste 1.50 million TPA, Top Soil 0.008 million TPA and Bauxite Production capacity 0.13 million TPA (ROM), Bauxite waste 0.10 million TPA (Total Excavation: 4.538 Million TPA) along with 3 crushing unit (2 existing and 1 proposed) and 5 screening units (3 existing and 2 proposed) at Villages Kalamanga, Jaldihi and Tantigram, Tehsil: Koira, District: Sundergarh, Odisha - [Proposal no: IA/OR/MIN/190213/2020; File No. J-11015/78/2020-IA-II(M)] - TOR**

The Proposal of Shri Prabodh Mohanty is for grant of Terms of Reference for expansion in Iron Ore Production Capacity from 2.0169 to 2.80 million TPA ROM (2.41 Million TPA Iron Ore + 0.39 million TPA Mineral Reject), Iron ore waste 1.50 million TPA, Top Soil 0.008 million TPA and Bauxite Production capacity 0.13 million TPA (ROM), Bauxite waste 0.10 million TPA (Total Excavation: 4.538 Million TPA) in (ML Area: 188.268 Ha) along with 3 crushing unit (2 existing and 1 proposed) and 5 screening units (3 existing and 2 proposed) at Villages Kalamanga, Jaldihi and Tantigram, Tehsil Koira, District, Sundergarh, Odisha. The mine is located between latitude 21°51'03.36" N to 21°51'58.28" N & longitude 85°14'00.58" E to 85°15'08.91" E, and within survey of India Topo-sheet No. F45N1 & F45N5 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 submitted that Environmental Clearance for existing 0.7 MTPA of Iron Ore production capacity and 0.05 MTPA of Bauxite was obtained from MoEFCC vide letter no J-11015/417/2006-IA.II (M) dated 28.01.2008.

Amendment in EC letter no. J-11015/417/2006-IA.II (M) dated 28.01.2008 w.r.t “deletion of specific condition (ii) Environmental Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, was issued from MoEFCC vide letter no J-11015/121/2011.IAII(M) dated 24.06.2015. Environmental Clearance for enhanced production of 2.0169 MTPA Iron ore and 0.13 MTPA of Bauxite was obtained from MoEFCC vide letter no J-11015/121/2011.IA-II(M) dated 24.06.2015. The project proponent applied online for grant of Terms of Reference (ToR) vide proposal no. IA/OR/MIN/190213/2020 dated 28.12.2020 and submitted Form-1 & Pre-Feasibility Report and the proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021.

4. The Project Proponent submitted that Originally, Mining Lease for Iron & Manganese Ore over an area of 333.063 ha was granted by Govt of Odisha, Mining & Geology Department vide letter no 13775/MG. Bhubaneswar on 27.11.1986 in favor of Late S.N. Mohanty. Lease deed was executed on 20.01.1987 for a period of 20 years from 20.01.1987 to 19.01.2007. Subsequently on 07.02.1987, Lessee applied for inclusion of bauxite in the principal lease deed executed on 20.01.1987 for iron & manganese ore and same was included vide State Govt letter No 9870 /MG. Bhubaneswar dated 13.10.1989. An additional lease deed was executed on 11.12.1989 co-terminus with the principal lease deed. Lease was inherited by Shri Prabodh Mohanty vide Government of Odisha order dated 11.03.1999 subsequent to the demise of original lessee S.N Mohanty. First Lease Period was expired on 19.01.2007. Out of 333.063 ha, first renewal of mining lease over an area of 188.523 ha was applied on 06.12.2005 for 20 years (From 20.01.2007 to 19.01.2027) by Sri Prabodh Mohanty. Final mine closure plan for the surrendered area (144.54 ha) approved by IBM vide their letter No. FMCP/OTF.MECH/09-ORI/BHU/2010-11 dated 12.01.2011. Certificate was obtained from IBM regarding surrendered area under Rule 29A of MCR, 1960 vide their letter no T/FMCP/C/1/BHU-2011 dated 11.01.2012. Surrendered proposal over 144.54 ha had been accepted by the Department of Steel & Mines, Govt. of Odisha, Bhubaneswar vide their letter No. 271/SM/Bhubaneswar. Dt: 13.01.2016. The Govt. of Odisha in department of Steel & Mines letter No. 5630/III(B) SM-21/2007/SM, Bhubaneswar dated 05.07.2016 issued orders extending the lease period of KJST Iron, Manganese & Bauxite Mines up to 19.01.2037 as per Section 8 (A) of MMDR Act-2015. After DGPS verification undertaken by Odisha Space Application Centre (ORSAC), Deptt. of Science & Technology, Govt. of Odisha, the extended area was determined to be 188.268 ha and the surrendered area comes to 144.788 ha. The supplementary lease deed of ML area over 188.268 ha has been executed on 14.07.2016 for 50 years in all total w.e.f. 20.01.1987 to 19.01.2037 as per section 8A of the Mines and Minerals (Development & Regulation) amendment Act 2015 in favor of Shri Prabodh Mohanty, Son of Late S.N. Mohanty (Original Lessee).

5. The Project Proponent submitted that Review of Mining Plan has been prepared under Rule 17(1) of MCR, 2016 for the next 5 years from 2021-22 to 2025-

26 as per statutory requirement and approved by IBM vide their letter no RMP/A/17-ORI/BHU/2020-21/1957 dated 20.10.2020.

6. The Project Proponent submitted that there will be no change in method of mining. On account of exposures of iron ore as well as bauxite and limited depth of occurrence, opencast method of mining will continue with the deployment of deep hole drilling machines, excavators, dumpers etc. for mining and mechanized processing (crushing & screening) as well as manual processing such as breaking and sizing. As per MCDR, 2017, the mine will be operated as a Category-A (fully mechanized) Mine. As estimated, iron ore resource is 36.868 Million Tonnes and reserve is 32.754 Million Tonnes and Bauxite resource is 1.345 Million Tonnes and reserve is 1.023 Million Tonnes. Iron ore mine will be operated on two shift basis to produce iron ore @ 2.8 MTPA and Bauxite mine will be operated on single shift basis to produce bauxite @ 0.13 MTPA. Overburden / waste generated in iron ore quarries will be dumped permanently at the north-eastern part of the lease area and in bauxite quarry will be utilized for back-filling of the mined out area con-currently.

7. The Project Proponent submitted that Nearest Village is Kalmanga at an aerial distance of 0.532km towards North direction from mine site. Nearest School is Kalmanga Primary School at 0.6km from mine site. Nearest highway is NH-215 which is ~4.5 km in North direction from mine site.

8. The Project Proponent submitted that total water requirement for the project is 86 KLD, which is being/will be sourced from Rain Water Harvesting Ponds within the Leasehold area & Teherei Nala. For drawl of surface water, Competent Authority Water Resources Department, Government of Odisha have granted necessary permissions vide their letter No 10109 dated 14.08.2018. Agreement for supply of water has also been done on 20.11.2018. For drinking purpose there is requirement of 2KLD water. Outsourcing of 2KLD (RO) water from outside Agency.

9. The Project Proponent submitted that as on date 10.813 ha area covered under greenbelt/plantation with Plant species such as Seemaru, Karanj, Shisha, Teak, chakunda, Neem, Arjun, Mango. Remaining 140.894 ha area will be covered under Greenbelt/plantation during the life of mine.

10. The Project Proponent submitted that total mining lease area is 188.268 ha which is forest land. Temporary working permission (TWP) over already broken upon forest area of 18.814 ha obtained vide letter no F. No. 8-45/2007-Fc dated.12.06.2008. Stage I Forest Clearance was obtained from MoEF (FC Division) for 177.517 ha area vide letter No 8-45/2007-FC(Pt) on 06.11.2008. Final Clearance for the diversion of 177.517 ha (101.658 ha + 75.859 ha) of forest land excluding safety zone & area for public use over 11.006 ha vide letter no 8-45/2007-FC (PT) on 31.07.2009. Stage-I forest clearance over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose from MoEF&CC vide letter no 8-45/2007-FC (Vol) on 29.06.2017. Final clearance over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose from MoEF&CC vide letter no 8-45/2007-FC (Vol) on 26.08.2019. PP submitted that the following forest are found in

the study area such as Sarakanda RF (~0.2 km, W), Khajurdihi RF (~1.8 km, SE), Reserved Forest (~2.0 km, N), Kathamala RF (~4.8 km, N), Mendhamaruni RF (~6.5 km, NNE), Torha RF (8.0 km, West), Karo RF (~9.0 km, NNW). No National Park, Wild Life Sanctuaries, Biosphere Reserves, Tiger Reserves, Wildlife Corridors, falls within the study area.

11. The Project Proponent submitted that Site Specific Wild Life Conservation Plan was approved by The PCCF (Wild Life) Odisha vide Memo No: 3963/WE(C)-FC-384/2009, Dt: 03.07.2009. Deposit of Rs 70,00,000.00 made vide DD No. 024381 on Dt: 09.07.2009 towards Wild life Plan. Also PCCF (Wild Life) Odisha issued authenticated Flora & Fauna list vide Memo No: 9962/1WL(C) SSP-123/2011 on Dt-18.12.2013 which indicates no Schedule-I fauna available within core & buffer zone of mines.

12. The Project Proponent submitted that the mine is in operation since 1987. Production details since year 1987 to year 2021 has been duly authenticated by office of the Dy. Director of Mines, Koira vide Memo no 5130 dated 10.12.2020. Demand notice received from office of the Deputy Director of Mines, Koira Circle to pay the compensation of Rs. 79,19,97,665.73 Vide their letter no 5134/Mines dated 02.09.2017 pursuant to Hon'ble Supreme Court of India order dt:02.08.2017 in the common cause matter and same compensation was paid in the designated account and intimated to Deputy Director of Mines vide our letter no PM/BBL/BO/DDM/1052/2017 dated 29.12.2017. PP also submitted an affidavit bearing L 191220 dated 03.12.2020 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 & Orissa.

13. The Project Proponent submitted that Honorable High Court Odisha vide- WP (CRL) No 1617 of 2013 has "STAYED" the hearing of SDJM, Bonai, Dt-Sundargarh, Odisha.

14. The Project Proponent submitted that total project cost is Rs. 75 crore. Capital cost for the Environmental Management Plan (EMP) is Rs. 515 Lakh & recurring cost of EMP is Rs 30 Lakh/annum. The employment generated by this project will be 451 persons.

15. The proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 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 for KJST Iron ore and Bauxite Mine of Shri Prabodh Mohanty (ML Area: 188.268 Ha) with expansion in Iron Ore Production Capacity from 2.0169 to 2.80 million TPA ROM (2.41 Million TPA Iron Ore + 0.39 million TPA Mineral Reject), Iron ore waste 1.50 million TPA, Top Soil 0.008 million TPA and Bauxite Production capacity 0.13 million TPA (ROM), Bauxite waste 0.10 million TPA (Total Excavation: 4.538 Million TPA) along with 3 crushing unit (2

existing and 1 proposed) and 5 screening units (3 existing and 2 proposed) at Villages Kalamanga, Jaldihi and Tantigram, Tehsil: Koira, District: Sundergarh, Odisha for undertaking detailed EIA/EMP study. In addition to the Standard Term of Reference for Non-Coal mining, standard ToR as per the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific term of reference for this project:

- i. The Project Proponent shall undertake the peripheral plantation and closed areas as well as gap plantation within 6 months with the seedling of 6-8 ft height having atleast 90% survival rate. An undertaking for the same also needs to be submitted by PP.
- ii. Project Proponent should address the protection measures taken for prevention of pollution due to transportation of mineral especially along the road passing through village in the EIA/EMP report.
- iii. Project Proponent shall ensure that the waste generated shall be stacked separately and management of the waste should be detailed in the EIA/EMP report.
- iv. The Project Proponent needs to carry out the Public Hearing as per the provisions of EIA Notification, 2006.
- v. PP shall bring out the action plan for upgrading the skills of the local people already employed in the mines.
- vi. PP needs to submit the certified EC compliance report of earlier EC.
- vii. Cost of the CER calculated shall be utilized for the concerns of the people in terms of health, education, and infrastructure and environment protection. PP 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.

**1.4: Siljora-Kalimati Iron & Manganese Ore Mines of M/s Debabrata Behera for expansion of production capacity of Manganese Ore of 1,89,000 TPA & Iron Ore of 1,36,000 TPA at Siljora-Kalimati, Dist Keonjhar, Odisha - [Proposal no: IA/OR/MIN/180442/2020; File No. J-11015/55/2020-IA-II(M)] - ToR (Auction Mine)**

The Proposal of M/s Debabrata Behera is for grant of Terms of Reference for expansion of production capacity of Manganese Ore of 1,89,000 TPA & Iron Ore of 1,36,000 TPA of Siljora-Kalimati Iron & Manganese Ore Mines [(MLA: 713.510 ha (As per DGPS) / 715.639 ha (As per ROR)] at Siljora-Kalimati, Dist Keonjhar, Odisha. The mine is located between Latitude 21°53'59.00750" N to

21°52'34.01443" N and Longitude 85°21'58.88860" E to 85°24'16.06824" E and within survey of India Toposheet No. F45 N5.

2. As per EIA Notification dated 14<sup>th</sup> Sept, 2006 and its subsequent amendments, the project falls under Schedule 1(a) of mining of minerals and is a Category- "A" as the mining lease area is greater than 100 Ha.

3. The Project Proponent submitted that the previous lessee M/s Mangilall Rungta obtained Environment clearance vide No.J-11015/691/2007-IA.II(M) dated 03.02.2009 for the Siljora Kalimati Manganese and Iron Ore Mining Project for an annual production capacity of 1,89,657 tonnes (0.189657million tonnes) of manganese ore and 1,36,035 tonnes (0.136035million tonnes) of iron ore involving total mine lease area of 715.639ha. The Project proponent applied for Terms of Reference vide Proposal no: IA/OR/MIN/180442/2020 dated 23.10.2020 and submitted Form-1 and Pre-feasibility report. The proposal was considered in the 23<sup>rd</sup> EAC meeting held during 23-25 November, 2020 wherein the committee deferred the proposal for want of the requisite information. PP submitted the requisite information on 25.12.2020 in PARIVESH portal and the proposal again considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021.

4. The Project Proponent has submitted that the Siljora-Kalimati Iron & Manganese Ore Mines over an [(MLA: 713.510 ha (As per DGPS)/715.639 ha (As per ROR)] has been intended by the Government of Odisha for grant of mining lease for a period of 50 years in favour of Shri Debabrata Behera through auction as per the letter of Intent no. 5506/SM, dated 26.06.2020. PP also submitted the vesting order issued by Government of Odisha, Steel and Mines Department vide no. 4273/SM/III(A)SM07/2020 dated 30.05.2020 stating that the vesting order is valid for a period of 2 years from the date of execution of lease deed or till the date of getting fresh approvals, clearances, licenses, permits and the like, whichever is earlier.

5. The Project Proponent submitted that the total land is 713.510 ha, out of the total 509.71 ha is forest land and balance 203.80 ha is non- forest land. PP also submitted that the Ministry of Environment and Forests vide Lr.No 8-104/96-FC (Pt.) dated 12.11.2010 accorded approval under Section-2 of the Forest Conservation Act, 1980 for diversion of 311.396 ha of deemed forest land in village – Siljora, kalimati etc. in Keonjhar District, Odisha for Manganese and Iron ore mining by M/s Mangilall Rungta in addition to already diverted area of 139.736 ha of revenue forest land during 3<sup>rd</sup> renewal of mining lease which has been now vested with Sri Debabrata Behera. PP reported that the nearest Reserve Forest from the mine site are Baitarani RF – 7.12 km (NNW) and Khajurdihi RF – 6.65 km (SE) are found within 10 km radius of the mine lease. PP also submitted that the Baitarani river – 4.3km (E) found within 10 km radius of the mine lease. PP further submitted that there are no wild life sanctuaries, national parks, elephant/tiger reserves within 10 km of the notified mine lease area.

6. The Project Proponent submitted the Letter for Approval of Modification of Mining Plan of SiljoraKalimati Manganese & Iron mine over an area of 715.639 ha in Keonjhar District of Odisha of M/s Mangilall Rungta vide IBM vide Lr.No MPM/OTFM/15- ORI/BHU/2018-19 dated 25.07.2018.

7. The Project Proponent submitted that the mine will be developed by opencast mining method with semi-mechanized means deploying machinery like wagon drill machine, rock breaker, hydraulic /diesel operated shovel, dumper/tipper, crushing and screening unit etc. PP has submitted that total Geological Reserves under proved & probable category of Manganese Ore is 3783655 MT and Iron ore is 704833.9 MT. Based on the present reserve estimates and proposed production program, the life of mine is 22 years for Manganese Ore and 8 years for Iron ore. Further, the life of the mines may not hold constant for all the time. Based on the market demands the life of the deposit may increase or decrease, accordingly the life of mine may vary from time to time. PP reported that It has been planned for the production of 189000 tons of Manganese Ore & 136000 tons of Iron Ore.

The Project Proponent also submitted that processing of ROM and mineral rejects is being done only by dry crushing & screening method. The dry processing method is being adopted for processing of ROM with the help of crushing and screening unit. The ROM ore will be subjected to screening, crushing, sizing, blending etc before finished product is ready for dispatch. Mobile crushing and screen unit of 60TPH capacity will be deployed for separation into different size material as per the requirement. PP also envisaged that 1522500cum from iron ore zone and 4247304cum from manganese ore zone will be generated. Waste from manganese ore will be disposed of at Back-filled area -1, 2,3 dump-A and H and waste from iron ore will be disposed of a Back-filled area – 3. PP also submitted that after expansion, about 3,25,000 TPA of Iron ore (ROM) will be produced from the mine. Ore will be transported from quarry site to screen and crushing site for processing by use of 20/35 ton dumpers whereas waste materials will be dispatched from quarry to dumping site by using same capacity dumpers.

8. The Project Proponent has submitted that the total water requirement for the project is 410cum/day in which 250 m<sup>3</sup>/day from surface water (for dust suppression such as transportation road, inside quarry road, stack yards, mine camp, dry fogging in screening plant: 221.0 m<sup>3</sup>/day, for green belt development: 18.8 m<sup>3</sup>/day and for miscellaneous: 10.2 m<sup>3</sup>/day) and rest 160m<sup>3</sup>/day for Drinking & domestic purposes used from ground water. This will be met from surface and ground sources for which permission has been taken from the Department of Water Resources Govt. of Odisha.

9. The Project Proponent reported that rehabilitation and resettlement is not applicable in this proposal.

10. The Project Proponent reported that there is no Court Case pending against the project and/or land in which the project is proposed to be set up.

11. The Project Proponent submitted the Consent to Operate issued by Odisha State Pollution Control Board vide Lr.No: 3226/IND-I-CON-1806, dated 23.02.2016 in the name of M/s Mangilall Rungta which was valid up to 31.03.2020.

12. The Project Proponent submitted that the estimated total capital cost of the project will be approximately Rs. 72cr that includes mine activities and machineries. PP reported that approx. 32 nos. persons will be engaged as managerial staff and approx. 845 semi-skilled & unskilled persons will be engaged from local village area.

13. Following are the ADS points which were raised in the last EAC meeting i.e. 23rd EAC meeting held during 23-25 November, 2020 and reply submitted by Project Proponent on 25.12.2020:

i. PP should submit the revised Form 1 and Prefeasibility report by mentioning the actual mine lease area and breakup of the forest land.

Reply by PP: The revised Form 1 and Prefeasibility report indicating the actual mine lease area and breakup of the forest land are provided. As per DGPS, the actual mine lease area is 713.510 Ha, out of which forest land is 509.71 Ha. As per ROR, the actual mine lease area is found to be 712.993 Ha, out of which forest land is 505.036 Ha. Now, Lessee has applied for forest clearance of 505.036 Ha (as per ROR) vide Proposal No. FP/OR/MIN/51446/2020 on dated 21/10/2020 as per certified land schedule by Tahasildar, Barbil.

ii. Is Mineral Processing Plant is part of TOR proposal. Mineral Processing Plant is proposed for Iron & Manganese ROM, If so details of the same to be furnished.

Reply by PP: Yes, Mineral Processing Plant is a part of TOR proposal which includes only dry screening and crushing for Iron and Manganese ROM. Mobile crushing and screen unit of 60TPH capacity will be deployed for separation into different size material as per the requirement.

iii. Details of Equipment & process involved, Capacity of Plant & proposed Environmental mitigation measures needs to be submitted.

Reply by PP: The details of Equipment & process involved, Capacity of Plant & proposed Environmental mitigation measures are provided.

iv. TOR proposal is for ROM production basis of Manganese & Iron Ore. Therefore envisaged Mass balance of Saleable Ore, Sub Grade Ore, Mineral Rejects & waste generated along with storage & disposal plan to be furnished in respect of Iron & Manganese Ore.

Reply by PP: The details of mass balance, mineral storage and disposal plan of waste is provided.

v. Details of Total Excavation per Year to be considered for EC needs to be furnished.

Reply by PP: Details of Total Excavation per year is provided.

vi. Details of existing Green Cover & Proposed Green cover in next five years & at conceptual stage including Safety zone plantation along lease boundary.

Reply by PP: The details of plantation provided.

vii. PP should submit the copy of all forest clearances obtained.

Reply by PP: The previous forest clearance of previous lessee has been vested in favour of Debabrata Behera for 2 years. However, the present lessee has applied for forest clearance vide Proposal No. FP/OR/MIN/51446/2020 on dated 21/10/2020 as per certified land schedule provided by Tahasildar, Barbil. The vested forest clearances and application for forest clearance are provided.

viii. PP should submit the valid lease document.

Reply by PP: Permission has been granted over ML area of 715.639 Ha as per ROR and 713.510 Ha as per DGPS. But after verification of Tahasildar, Barbil, the ML area is found to be 712.993 Ha as per ROR and area as per DGPS remains same. The Certified land Schedule indicating 712.993 Ha along with lease document provided.

ix. PP should submit the permission letter obtained from Department of Water Resources Govt. of Odisha for ground water withdrawal.

Reply by PP: The GW withdrawal permission of 400 cum per day obtained by previous lessee has been vested in favour of Debabrata Behera. However, the present lessee already applied for GW permission to CGWA.

x. PP should submit the Affidavit in a non-judicial stamp paper in compliance to the Ministry's OM dated 30.05.2018.

Reply by PP: The Affidavit in a non-judicial stamp paper in compliance to the Ministry's OM dated 30.05.2018 provided.

xi. PP needs to upload the complete previous EC Letter in the PARVESH PORTAL and details of Compliance of Earlier EC Conditions.

Reply by PP: The Present lessee has requested to RO, MoEF to furnish the latest compliance report of Siljora-Kalimati mines vide Ir no. DB/2020/21/73 dated 07/12/2020. However, the six monthly compliance report submitted by previous lessee and previous EC Letter has been uploaded.

xii. Compliance of Status with regard to MINE CLOSURE PLAN of Earlier LESSE be indicated.

Reply by PP: Compliance of Status with regard to MINE CLOSURE PLAN of Earlier LESSE provided.

xiii. Status of Compliance as per NEERI recommendations for iron ore for Orissa be indicated

Reply by PP: Siljora-Kalimati mine has been granted lease in favour of Debabrata Behera on 26/06/2020 for a period of 50 years. The mine is in operation since August, 2020. As it is a very small time to implement the recommendation of NEERI. But we will abide by all the NEERI recommendations and committed to implement within a period of 2 years. We have applied for the compliance status from State pollution Control Board Odisha vide our letter no DB/2020/21/74 dtd 07.12.2020.

xiv. Treatment details of Tailings if any be indicated.

Reply by PP: There are no tailings are being produced from the mining activity. So, there is no need of treatment of tailings.

14. The proposal was placed in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 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 for Siljora-Kalimati Iron & Manganese Ore Mines of M/s Debabrata Behera for expansion of production capacity of Manganese Ore of 1,89,000 TPA & Iron Ore of 1,36,000 TPA at Siljora-Kalimati, Dist Keonjhar, Odisha. In addition to Standard Term of Reference for non-coal mining, standard ToR as per the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific term of reference for this project:

- i. The PP shall submit the present state of mine including primary environmental baseline data along with TOR application in order to assess the status and level of environmental compliance while transfer of lease. The PP 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.
- ii. The TOR 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
- iii. 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.
- iv. The Project Proponent shall undertake the peripheral plantation and closed areas as well as gap plantation within 6 months with the seedling of 6-8 ft height having atleast 90% survival rate. An undertaking for the same also needs to be submitted by PP.
- v. 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.
- vi. 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.
- vii. Cost of the CER calculated shall be utilized for the concerns of the people in terms of health, education, and infrastructure and environment protection. PP 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: Kamarda Chromite Block of M/s T S Alloys Limited having mining lease area: 107.240 Ha for Production of 0.30 MTPA Chrome Ore (ROM) with maximum Excavation of 2.50 Million Cum Per Annum through Opencast Mining at Village-Talangi, Kamarda & Balipada, Tehsil-Sukinda, District Jajpur, Odisha. [Proposal no. IA/OR/MIN/180570/2020; File No. J-11015/ 56/2020- IA-II(M)]- Terms of Reference-Auction mine**

The Proposal of M/s. Tata Steel Mining Limited (formerly known as M/s T S Alloys Limited) is for grant of Term of Reference for Kamarda Chromite Block, (Mining Lease Area: 107.240 ha) with production capacity of 0.30 MTPA Chrome Ore (ROM) with maximum Excavation of 2.50 Million Cum Per Annum through Opencast Mining at Village-Talangi, Kamarda & Balipada, Tehsil-Sukinda, District Jajpur, Odisha State. The mine is located between latitude 21° 03'06.11316" N -

21°03'50.88708" N and longitude 85°49'22.45836" E- 85° 50'11.31576" E and within survey of India Toposheet No. 73-G/16.

2. As per EIA Notification dated 14<sup>th</sup> Sept, 2006 and its subsequent amendments, the project falls under Schedule 1(a) of mining and is a Category- "A" as the mining lease area is greater than 100 Ha.

3. The Project Proponent submitted that the Environmental clearance was obtained by the previous lessee, M/s. B. C. Mohanty & Sons (P) Ltd for a production of 88,000 TPA Chrome Ore vide MoEF Letter No. J-11015/418/2006-IA.II(M) dated 08.05.2008. PP submitted that M/s. Tata Steel Mining Limited (formerly known as M/s T S Alloys Limited) has been declared as the preferred bidder through auction and now applied vide Proposal no: IA/OR/MIN/180570/2020 dated 25.10.2020 for prescribing Term of Reference (ToR) and submitted Form-1 and Pre-feasibility report. The proposal was considered in 23<sup>rd</sup> EAC meeting held during 23-25 November, 2020 wherein the Committee deferred the proposal for want of additional information. PP submitted the reply on 18.12.2020 vide letter no. TSML/MD/279/2020 dated 17.12.2020. The proposal was considered in 26<sup>th</sup> EAC Meeting held during January 11-13<sup>th</sup>, 2021.

4. The Project Proponent submitted that the Kamarda Chromite Block Mining lease over an area of 107.24 Hectare area was originally granted in favour of Sri B. C. Mohanty for a period of 20 years from 22.02.1968. Subsequently, the lease was transferred in favour of M/s. B. C. Mohanty & Sons (P) Ltd on 05.05.1981. The lease was first renewed for 20 years up to 22.02.2008 & further extended up to 31.03.2020 vide supplementary lease deed dated 06.10.2015.

The Project Proponent also submitted that the Government of Odisha pursuant to the Mines & Minerals (Development & Regulation) Act 1957 and the Mineral (Auction) Rules 2015, conducted auction for grant of lease for Kamarda Chromite Block located in Jajpur district of Odisha. The Lessee Company M/s T S Alloys Limited was emerged as successful bidder in the e-auction process. Letter of Intent (LOI) for grant of mining lease of Kamarda Chromite Block in Jajpur District over 107.240 Ha Area in favour of the Company for a period of 50 years was issued by the State Government vide Letter No 9012/SM dated 18.11.2019 read with letter No. 9095/SM dated 20.11.2019. Subsequently, in terms of section 8B(2) of MMDR Act, 1957 read with rule 9A(4) of MCR, 2016, the bidder is deemed to have acquired all valid rights, approvals, clearances, licenses and the like vested with the previous lessee for a period of two years from the date of execution of the lease deed or till the date of getting fresh approvals, clearances, licenses, permits and the like whichever is earlier as per Vesting Order issued vide Letter No 4129/SM dated 28.05.2020.

The Project Proponent submitted that in the meantime, the name of the preferred bidder M/s T S Alloys Limited has been changed to M/s Tata Steel Mining

Limited on 19.05.2020 by the Registrar of Companies, Odisha and Govt. of Odisha has also accorded its approval for Change of Name vide letter no. 5169/SM dated 22.06.2020. Accordingly, the State Government issued grant order in favor of the M/s Tata Steel Mining Limited vide letter No. 5476/SM dated 26.06.2020 and executed and registered the Mine Development and Production Agreement (MDPA) and Mining Lease deed on 26.06.2020 for a period of 50 years over the said area.

5. The Project Proponent submitted that there is 105.78 ha forest land involved in the lease area and Forest clearance has been obtained by the previous lessee over an area of 87.44 Ha vide MoEF Letter No. F. No. 8-81/1996-FC dated 28.03.2008. PP has reported that the nearest forest from the mine site are Mahagiri Protected Forest (500 m, S), Daitari Protected Forest (1 km, N) and Nala Damsala, (adjacent, N). PP further submitted that there are no wild life sanctuaries, national parks, elephant/tiger reserves within 10 km of the notified mine lease area. PP submitted that online application for obtaining fresh Forest Clearance has been submitted vide Proposal No. FP/OR/MIN/51780/2020 dated 22.10.2020.

6. The Project Proponent submitted that the Mining Plan along with Progressive Mine Closure Plan approved by IBM vide letter no MP/A/16-ORI/BHU/2020-21 dated 28.09.2020 for the period 2020-21 to 2024-25 in the name of M/s Tata Steel Mining Limited.

7. The Project Proponent submitted that the mining shall be by open cast fully mechanized system of mining by deploying higher capacity of machinery (HEMM) for optimization of mining operation by scientific mining. The deposit shall be worked by adopting a system of bench formation with deep hole blasting. Three (3) shift operations are proposed in which drilling of blast holes shall be done by Pneumatic DTH drill of 150mm dia holes while excavation and transportation of ROM ore and waste materials shall be done through excavators of 1.9 Cu.m/ 3.0 Cu.m capacity and dumpers of 30/40 t capacity. Besides, a dozer of appropriate capacity shall be used for construction, levelling and compaction of haul road and waste dump..

The Project Proponent reported that total Geological Reserves of Chromite Ore as on 01.07.2020 are estimated to be 22,87,470 tonnes. Of these, Mineable reserves has been assessed to be 17,07,660 tonnes. Based on the present reserve estimates and proposed production program, the life of mine is estimated to be about 8.5 years which is likely to increase with further exploration, diversion of road and slope steepening.

The Project Proponent submitted that the extracted 0.3 MTPA Chrome ore ROM will be used to meet the in-house demand for Ferro Chrome manufacturing at Lessee's plants located at Bamnibal, Athagarh, Gopalpur of Keonjhar, Cuttack and Ganjam district respectively in Odisha as well as other Conversion FeCr plants located in Odisha, West Bengal, Andhra Pradesh, Chhattisgarh etc. PP reported that no beneficiation plant is proposed in the proposal.

8. The Project Proponent has submitted that about 330 KLD water will be required for dust suppression, plantation, workshop & wheel wash, drinking & domestic activities, etc. Mine pit water will be used for dust suppression and plantation activities. Ground water from borewell will be used for drinking and domestic use. Permission for ground water drawl of 590 KLD has been obtained from Central Ground Water Authority, Govt. of India, Ministry of Water Resources, New Delhi, vide letter no. 21-4 (31) SER/CGWA/2008-294 dated 18.02.2013. Necessary permission from CGWA has been obtained by the previous lessee and the same will be renewed by TSML. PP also reported that the excess water in the mine pit will be treated in ETP for neutralization of Hexavalent chromium and the treated effluent will be discharged in Damsal Nallah.

9. The Project Proponent has submitted that the mine lease area comprises of Forest & Non-Forest land. However, there are few households in the north western part of the mine lease area. These households will have to be rehabilitated for mining in the year 2024-25. Necessary Rehabilitation and Resettlement plan will be prepared in line with the National / State R&R policy after negotiations with the residents. Detailed R&R plan will be prepared and submitted in the EIA/EMP report.

The Project Proponent also submitted that there are some encroachments inside the mining lease near Previous Lessee's office premises. One more encroachment exists near Common boundary of Kamarda and Saruabil. There is no proposal for mining in this area and as such, these will not be rehabilitated.

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

11. The Project Proponent has submitted that the estimated total capital cost of the project will be approximately Rs. 83.50 crore. PP reported that the estimated total manpower requirement for this project is 440 persons.

12. Following are the ADS points which were raised in the last EAC meeting i.e. 23rd EAC meeting held during 23-25 November, 2020 and reply submitted by Project Proponent on 18.12.2020:

<b>Sl. No.</b>	<b>ADS</b>	<b>Reply by PP</b>
1.	PP needs to submit the management Plan for OB on the Environment.	Project Proponent submitted the year wise generation of overburden/waste in next 5 year plan period and its mode of disposal and storage along with backfilling void, reclamation, rehabilitation, protective measures etc.

2.	Proper management of Waste should be APPENDED for grant of TOR	Same as above.
3.	Total excavation of around 6.0 Million Tonnes for mining of 0.3 Million Tonnes of Chromite Ore and it is burden on the environment be justified. PP needs to submit the management plan of the burden on the environment	Project Proponent submitted the year wise Chrome ore ROM production and generation of waste submitted also detailed justification for excavation.
4.	Proper management plan of waste should be apprehended for grant of TOR	Same as point 1.
5.	The mine has been handed over in e-auction and since the mine wasn't operated earlier by present owner, PP must need to assess the damages done to the environment along with the time bound corrective measures in case of any damages observed.	Project Proponent submitted that damage assessment and corrective measures prepared which is detailed in ADS reply.
6.	PP needs to submit the status report of RO, MoEF&CC on compliance of EC condition on mine closure plan by the previous lessee.	Project Proponent submitted they have approached RO MoEF&CC for status report of previous lessee. The same will be submitted after receipt from RO, MOEF&CC.
7.	PP needs to submit the rehabilitation plan for relocating the affected people in the core area.	Project Proponent submitted details of the existing habitation within the mine lease area. A tentative budget of R&R plan submitted. Project Proponent has submitted that proposal of R&R shall be prepared and submitted along with EIA/EMP report.
8.	Certificate issued by Registrar of Companies for name change of M/s T S Alloys Limited to M/s Tata Steel Mining Limited needs to be submitted.	Project Proponent has submitted a copy of Certificate dated 19 <sup>th</sup> May 2020, issued by Registrar of Companies, Cuttack submitted.
9.	Approval letter for Mining plan issued by IBM needs to be submitted.	Project Proponent has submitted Mining Plan Approval letter no. MP/A/16-OR/BHU/2020-21, dated 28.09.2020 of IBM submitted.

10.	Permission letter obtained CGWA for ground water with drawl on 18.02.2013	Project Proponent has submitted CGWA permission Central Ground Water Authority dated 18.02.2013 vide letter no. 2104 (31) SER/CGWA/2012-884 submitted.
11.	PP should submit the proof of online submission for forest clearance and submit the status of remaining forest land of 18.34 ha.	Project Proponent has submitted that status of remaining forest land of 18.34 ha and Acknowledgement slip submitted for Online application for fresh forest clearance over entire forest land of 105.780 ha vide proposal no. FP/OR/MIN/51780/2020 dated 22.10.2020 submitted.
12.	PP should submit the Affidavit in a Non-Judicial Stamp paper to comply with all statutory requirement & judgement of Hon'ble Supreme court dated the 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 as applicable as per Ministry OM dated 30.05.2018	Project Proponent has submitted affidavit in a Non-Judicial Stamp paper to comply with all statutory requirement & judgement of Hon'ble Supreme court dated the 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 as applicable as per Ministry OM dated 30.05.2018 submitted.

13. The proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 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 for production of 0.30 MTPA Chrome Ore (ROM) with maximum Excavation of 2.50 Million Cum Per Annum of Kamarda Chromite Block of M/s T S Alloys Limited having mining lease area: 107.240 Ha at Village-Talangi, Kamarda & Balipada, Tehsil-Sukinda, District Jajpur, Odisha along with the following specific conditions:

- i. The PP shall submit the present state of mine including primary environmental baseline data along with TOR application in order to assess the status and level of environmental compliance while transfer of lease. The PP 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.
- ii. The TOR 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
- iii. 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.
- iv. The Project Proponent shall undertake the peripheral plantation and closed areas as well as gap plantation within 6 months with the seedling of 6-8 ft height having atleast 90% survival rate. An undertaking for the same also needs to be submitted by PP.
- v. 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.
- vi. 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.
- vii. Cost of the CER calculated shall be utilized for the concerns of the people in terms of health, education, and infrastructure and environment protection. PP 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.

**1.6: Sukinda Chromite Block of M/s T S Alloys Limited having mining lease area: 406.00 Ha for production of 2.4 MTPA Chrome Ore (ROM) with Maximum excavation of 6.56 Million Cum per Annum through Opencast & Underground Mining at Village: Kalarangiatta, Kaliapani, Mahulkhal & Forest Block No. 27 under Sukinda Tehsil, Jajpur District of Odisha State [Proposal No. IA/OR/MIN/180571/2020; File No. J-11015/ 54/2020-IA-II(M)]- Terms of Reference-Auction mine**

The Proposal of M/s. Tata Steel Mining Limited (formerly known as M/s T S Alloys Limited) is for grant of Terms of Reference for Sukinda Chromite Block, (ML Area: 406.00 ha) with production capacity of 2.4 MTPA Chrome Ore (ROM) and

0.072 MTPA Pyroxenite Ore (ROM) with maximum excavation of 6.56 Million Cum per Annum through Opencast and underground Mining at Villages Kalarangiatta, Kaliapani, Mahulkhal & Forest Block No. 27 under Sukinda Tehsil, Jajpur District of Odisha State. The mine is located between Latitude N 21°00'39.60" & 21°02'5.81" and Longitude E 85°44'27.10" & 85°46'22.37" and within survey of India Toposheet No. 73-G/12, 73-G/16, 73-H/9, & 73-H/13.

2. The Project Proponent has submitted that the said proposal is covered under the ambit of EIA Notification, 2006 & its subsequent amendments and the project falls under Schedule 1(a) of mining of minerals and is a Category- "A" as the mining lease area is greater than 100 Ha.

3. The Project Proponent submitted that the previous Environment Clearance was granted for enhancement of production of Chrome ore from 0.95 to 2.4 MTPA and Pyroxenite ore from mining from 0.25 to 0.5 MTPA and enhancement of Chrome beneficiation production from 0.1 MTPA to 0.65 MTPA (throughput) by MoEF vide letter no. J11015/96/2011-IA.II (M), dated 06.09.2013 and amendment of Environment Clearance vide MoEF&CC vide letter no. J-11015/96/2011-IA.II (M), dated 26.09.2016 in the name of M/s Tata Steel Limited. PP vide Proposal no: IA/OR/MIN/180571/2020 dated 25.10.2020 applied for prescribing Term of Reference (ToR) and submitted Form-1 and Pre-feasibility report. The proposal was considered in the 23<sup>rd</sup> EAC meeting held during 23-25 November, 2020 wherein the committee deferred the proposal for want of additional information. PP submitted the reply on 18.12.2020 vide letter no. TSML/MD/279/2020 dated 17.12.2020. The proposal was considered in 26<sup>th</sup> EAC meeting held during January 11-13<sup>th</sup>, 2021.

4. The Project Proponent submitted that the initially Sukinda Valley lease over an area of 1813.457 Hectare area was granted in favour of Tata Steel Limited (earlier Tata Iron & Steel Co. Ltd.) for a period of 20 years from 1952 from the then Maharaja of Sukinda Garh. The lease was ratified with effect from 12.01.1953. The first renewal was for a period of 20 years from 12.01.1973 to 11.01.1993 over an area of 1261.657 Hectare. The second renewal was for a period of 20 years from 12.01.1993 to 11.01.2013 over an area of 406.00 Hectare. After endorsement of the MMDR Amendment Act, 2015, the Govt. of Odisha extended the mining lease from 12.01.2013 to 31.03.2020. PP also mentioned that the M/s Tata Steel Mining Limited is a wholly owned Subsidiary of M/s Tata Steel Limited.

The Project Proponent submitted that the M/s Tata Steel Mining Limited (Formerly known as M/s T S Alloys Limited) emerged as preferred bidder in the e-auction process and Letter of Intent (LOI) for grant of mining lease of Sukinda Chromite Block in Jajpur District over 406 Ha ML area for a period of 50 years was issued by the State Government vide letter No. 5555/SM/IV(B)SM-32/2020 dated 29<sup>th</sup> June 2020. Subsequently, in terms of section 8B (2) of MMDR Act, 1957 read with rule 9A (4) of MCR, 2016, the bidder is deemed to have acquired all valid rights, approvals, clearances, licenses and the like vested with the previous lessee for a

period of two years from the date of execution of the lease deed or till the date of getting fresh approvals, clearances, licenses, permits and the like whichever is earlier. PP reported that the lease deed for the Sukinda Chromite Block was executed on 23.07.2020.

5. The Project Proponent submitted that, out of 406 Ha (ML area), 404.669 Ha is forest land and 1.331 ha is Non-Forest (Govt.) land in the mine lease area. PP also submitted that the Stage I clearance for Forest area of 73.697 ha was obtained vide MoEF's Letter No. 8-78/96- FC, dated 27.01.1998 & Stage-II clearances for Forest area of 330.972 ha was obtained vide letter no. F.No. 8- 15/2016-FC dated 18.05.2018 in the name of M/s Tata Steel Limited. PP has applied vide Proposal No. FP/OR/MIN/51786/2020 dated 22.10.2020 for obtaining fresh forest clearance (Stage I) and is under process.

6. The Project Proponent that the nearest protected forest from the mine site is Mahagiri PF (2.9 km, N), Nala Damsal (1.81 km W) and river Brahmani (14.48 km S). PP further submitted that there are no wild life sanctuaries, national parks, elephant/tiger reserves within 10 km of the mine lease area.

7. The Project Proponent submitted that the Mining Plan with Progressive Mine Closure Plan has been approved by IBM vide letter no MP/A/15-ORI/BHU/2020-21/1025 dated 10.09.2020 in the name of M/s Tata Steel Mining Limited.

The Project Proponent submitted that the fully mechanized Opencast and Underground mining is proposed to be carried out during the plan period. Sub Level Stopping and Cut & Fill method will be used for underground mining. The operations like digging, excavation and removal of ore in conjunction with deep hole drilling and blasting will be done with the help of heavy earth moving machineries. In underground mining, holes for blasting will be of 45 mm dia. which shall be charged with 40 mm power gel cartridge. Depth of drilling will be 3.6 m. In opencast Mining, generally, 150 mm dia. holes are drilled in the overburden benches and ore benches. Depth of holes will be 9.0 to 10.0 m in OB benches and 5.0 to 6.0 m in Ore benches. Burden & Spacing of 3.0 to 4.0 m & 4.0 m to 5.0 m respectively will be maintained. On an average 25 -30 holes are blasted in a round using conventional explosive. The SME (Site Mixed Emulsion) is used for better safety, lesser ground vibration and better fragmentation. During the plan period, the development of Underground Mine would commence, and it would reach its rated capacity of 2.4 MTPA of ROM production during the conceptual period. The selection of the mining method was based on extensive geotechnical studies and numerical modelling done by SRK, South Africa and CIMFR, Nagpur.

The Project Proponent reported that total Geological Reserves of Chromite Ore as on 01.07.2020 are estimated to be 93.161 Million tonnes. Of these, Mineable reserves has been assessed to be 5.247 Million tonnes. Geological reserves for Pyroxenite ore as on 01.07.2020 are estimated to be 9.911 Million tonnes. Of these,

Mineable reserves has been assessed to be 0.221 Million tonnes. The proposal is for production of 2.4 MTPA Chromite Ore (ROM) and 0.072 MTPA Pyroxenite ore (ROM) with maximum excavation of 6.56 Million Cum per annum. There is no proposal for any mineral beneficiation within the mine lease area. Further the life of mine will increase after the geological resources are converted to reserves during future exploration.

A large quantity of waste is to be generated. The old stabilized Dump 2A was spread over 29.25 ha out of which 13.03 was re-handled during the earlier plan period and will also continue during this plan period till 31.03.2025. Dump 2A does not contain any Chromite ore, hence no ore recovery is envisaged. This re-handling of the dump is completely concurrent to development of mine benches of OB X (Friable Ore) Quarry and has been proposed during 2021-24.

The ore having < 40% Cr<sub>2</sub>O<sub>3</sub> from the middle band ore body and diluted ore from the contact zone are stacked separately in the Mineral reject stack yard. Based on experience and changing market scenario a part of Mineral reject is likely to be used as saleable ore and will be sent directly to stack yard for onward dispatch to customers based on their requirements.

8. The Project Proponent has submitted that Total water requirement of the Sukinda mine is estimated to be about 12930 KLD. Of this, about 9510 KLD water will be recycled and reused for dust suppression, plantation and stowing activities. Remaining 3420 KLD make up water requirement will be met by mine dewatering. Mine pit water will be used for dust suppression and plantation activities. Mine pit water will be treated to achieve drinking water standards before supplying for drinking and domestic use. Necessary permission from CGWA has been obtained by the previous lessee for mine pit dewatering vide Letter No 21-4488/NOC No. CGWA/NOC/MIN/ORIG/2018/3161, dated 23.03.2018 and Fresh permission will be obtained for mine water dewatering. Water requirement will be met using mine pit water after necessary treatment. Excess pit water will be supplied for drinking and domestic use in nearby villages after necessary treatment & surplus water, if any, will be discharged in Damsal nalla after treatment for Hexavalent chromium. Mining has already intersected ground water table of the area.

9. The Project Proponent has submitted that the total ML Area is 406.00 ha, which is comprises of Forest & Govt. land. Thus, there is no R & R involved. A colony located within the Northern part of the Mine Lease will facilitate as housing for the workers of Sukinda Chromite Block.

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

11. The Project Proponent has submitted that the estimated total capital cost of the project will be approximately Rs. 2610.55 crore. PP reported that total of 400

people will be required to carry out the opencast and underground mining operation. In addition to this, 500 persons will be employed through contracts to provide various essential services like loading, security, conveyance & transportation of minerals etc.

12. Following are the ADS points which were raised in the last EAC meeting i.e. 23<sup>rd</sup> EAC meeting held during 23-25 November, 2020 and reply submitted by Project Proponent on 18.12.2020:

ADS 1: Assessment of ecological damage w.r.t. air, water, land and other environmental attributes.

Reply: Project Proponent submitted: the Air, Water, Noise monitoring data for last four years (from 2016-17 till 2019-20) collected and analyzed through accredited 3<sup>rd</sup> party submitted, year wise water data at ETP inlet and ETP outlet data for the period i.e., 2016-17 till 2019-20, Year wise noise data in industrial, commercial, residential and silence zones in the mining lease area for the period 2016-17 till 2019-20.

Project Proponent submitted that the air, water, noise data are well within the permissible limit hence it can be concluded that there is no ecological damage has happened w.r.t. air, water, land and other environmental attributes. Further, all the conditions stipulated in the previous Environmental Clearance granted in the name of M/s Tata Steel Limited and now being vested on M/s Tata Steel Mining Limited are being complied in the mine. Further, afforestation schedule as per Progressive Mine Closure plan and beyond it shall be ensured to minimize the impact on the environment.

ADS 2: Details of land for any over burden dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

Reply: Project Proponent submitted that during the last lease period w.e.f 13.01.1993 to 12.01.2013 extended to 31.03.2020 by virtue of MMDR Amendment Act, 2015, approval for over burden dumping was obtained over an area of 100 ha of forest land adjacent to south side the mining lease area. MoEF&CC, Govt. of India has accorded Stage-I Forest Clearance over 100 ha of forest land for overburden dumping vide Letter no. 8-28/2004-FC, dated 02.07.2004. Subsequently, Stage-II approval was granted by MoEF&CC, Govt. of India vide letter no. 8-28/2004-FC, dated 11.05.2005.

As per the condition of Stage-II approval, DFO Cuttack released 25 ha in phases (total 75 ha was released) after satisfactory completion of concurrent reclamation. Total area of 75 ha out of approved 100ha was released. In the meantime, Hon'ble Supreme Court judgement in Goa case [WP(C) 435 of 2012] came which prohibited the dumping of overburden outside the lease hold area. So, company stopped further dumping in the additional area of 100 ha (allotted area of

75 ha, Utilized area of ~63 ha) and started backfilling in the OB-II quarry within the mining leasehold area which had reached its ultimate depth by that time.

Project Proponent submitted that above additional area 100 ha for overburden dumping was also considered within the Project area for the application of prior Environmental Clearance which Tata Steel Limited applied on 11.04.2011. The Environmental Clearance was granted vide MoEF letter no. J-11015/96/2011-IA.II(M), dated 06.09.2013. As per Para 3.0 of the above Environmental Clearance” The total project area is 579.685 ha. This included 406 ha of mine lease area (73.697 ha of forest land and 332.303 ha of non-forest land), 100 ha of forest for overburden dump and 73.685 ha of forest land for proposed tailing dam outside the mining lease area”. The area is in degraded forest land devoid of any habitation so there was no issue related to R&R. The proposal for use of earmarked area over 73.685 ha for disposal of tailing was dropped in view of Supreme Court judgement.

Project Proponent also submitted that the entire area has been reclaimed through plantation with all protective measures in place. Total ~5,27,760 nos. of saplings have been planted covering an area over 63.33 ha. Further, company would take all necessary steps for gap plantation to compensate the mortality if required. Details of plantation is given below:

<b>Year</b>	<b>Saplings Planted (Nos.)</b>	<b>Area Covered (Ha)</b>
2008-09	36750	1.76
2009-10	56000	5.6
2010-11	60000	6.5
2011-12	35000	3.5
2012-13	40000	6.5
2013-14	54326	5.6
2014-15	50100	5.1
2015-16	64357	8.0
2016-17	26000	6.7
2017-18	44000	6.0
2018-19	47577	8.07
2019-20	13650*-(Gap plantation was done)	0.0
<b>Total</b>	<b>527760</b>	<b>63.33</b>

ADS 3: Plan showing safety zone maintaining between opencast and underground working along with cross section.

Reply:Project Proponent submitted that the underground plan showing the present opencast working and proposed underground installations. Further, longitudinal vertical sections showing the Crown Pillar (Safety Zone) to be maintained between Opencast & Underground Mining. Orebody below the ultimate pit bottom till crown pillar would act as safety zone between the opencast and underground mining. Underground operation will commence below the crown pillar.

ADS 4: The mine has been operated and it has been observed that the waste dump has been permitted outside the lease area. Letters for approval for permitting the PP to dump outside shall be submitted.

Reply: Project Proponent submitted that the MoEF&CC, Govt. of India has accorded Stage-I Forest Clearance over 100 ha of forest land for overburden dumping vide Letter no. 8-28/2004-FC, dated 02.07.2004. Subsequently, Stage-II approval was granted by MoEF&CC, Govt. of India vide letter no. 8-28/2004-FC, dated 11.05.2005.

The above additional area of 100 ha for overburden dumping was also considered within the Project area for the application of prior Environmental Clearance which Tata Steel Limited applied on 11.04.2011. The Environmental Clearance was granted vide MoEF letter no. J-11015/96/2011- IA.II(M), dated 06.09.2013. As per Para 3.0 of the above Environmental Clearance which states "The total project area is 579.685 ha. This included 406 ha of mine lease area (73.697 ha of forest land and 332.303 ha of non-forest land), 100 ha of forest for overburden dump and 73.685 ha of forest land for proposed tailing dam outside the mining lease area".

Project Proponent also submitted that the dumping of overburden in the area was stopped after the Hon'ble Supreme Court judgement in Goa case [WP(C) 435 of 2012] came which prohibited the dumping of overburden outside the lease hold area. The entire utilized area over ~63 ha has now been reclaimed. No other area beyond this was used for disposal of waste.

ADS 5: The management of dump outside the lease area is currently in practice and hence, w.r.t. chromium pollution in the nearby water bodies needs to be submitted.

Reply: Project Proponent submitted that dumping of overburden in the additional area adjacent to southern mining lease boundary was stopped after the Hon'ble Supreme Court judgement in Goa case [WP(C) 435 of 2012] came which prohibited the dumping of overburden outside the lease hold area. The entire utilized area over ~63 ha has been now been reclaimed.

Water samples were being drawn at regular interval from the nearby water bodies in Kakudia village located at downstream side of the dump and there was no contamination of chromium was found. The analysis results are shown on Table given below.

<b>Parameter</b>	<b>Unit</b>	<b>Standards as per IS-10500:2012 Amended on 2015 &amp; 2018</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>

Ground water level	meter s	...	<b>12.37</b>	<b>9.85</b>	<b>4.97</b>	<b>5.81</b>	<b>8.25</b>
Colour	Hazen	<b>5</b>	CL	CL	CL	CL	CL
Odour	--	<b>Agreeable</b>	U/O	U/O	U/O	U/O	U/O
Taste	--	<b>Agreeable</b>	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity	NTU	<b>1</b>	0.70	0.97	1.20	0.53	0.85
pH Value	--	<b>6.5 - 8.5</b>	7.00	7.31	7.07	6.90	7.07
Dissolved Oxygen	mg/l	....	6.13	5.95	5.83	5.55	5.86
Total Hardness (as CaCO <sub>3</sub> )	mg/l	<b>200</b>	47.40	56.08	60.75	90.25	63.62
Iron (as Fe)	mg/l	<b>0.3</b>	0.15	0.18	0.18	0.20	0.17
Chloride (as Cl )	mg/l	<b>250</b>	17.19	16.25	16.88	13.60	15.98
Residual, free Chlorine	mg/l	<b>0.2</b>	ND	ND	ND	ND	ND
Fluoride (as F)	mg/l	<b>1</b>	0.20	0.11	0.03	0.20	0.13
Dissolved Solids	mg/l	<b>500</b>	128.00	124.50	112.25	122.00	121.69
Calcium (as Ca )	mg/l	<b>75</b>	10.44	13.00	16.52	21.13	15.27
Magnesium (as Mg)	mg/l	<b>30</b>	6.24	6.83	4.70	4.62	5.60
Copper (as Cu)	mg/l	<b>0.05</b>	BDL	BDL	BDL	BDL	BDL
Manganese (as Mn)	mg/l	<b>0.1</b>	BDL	BDL	BDL	BDL	BDL
Sulphate (as SO <sub>4</sub> )	mg/l	<b>200</b>	16.92	17.63	9.42	6.36	12.58
Nitrate (as NO <sub>3</sub> )	mg/l	<b>45</b>	0.48	1.39	1.69	1.69	1.31
Mercury (as Hg)	mg/l	<b>0.001</b>	BDL	BDL	BDL	BDL	BDL
Cadmium (as Cd)	mg/l	<b>0.003</b>	BDL	BDL	BDL	BDL	BDL
Selenium (as Se)	mg/l	<b>0.01</b>	BDL	BDL	BDL	BDL	BDL
Arsenic (as As)	mg/l	<b>0.01</b>	BDL	BDL	BDL	BDL	BDL
Cyanide (as CN)	mg/l	<b>0.05</b>	ND	ND	ND	ND	ND
Lead (as Pb)	mg/l	<b>0.01</b>	BDL	BDL	BDL	BDL	BDL
Zinc (as Zn)	mg/l	<b>5</b>	0.18	0.20	0.09	0.07	0.14
Chromium (as Cr+6)	mg/l	<b>0.05</b>	BDL	BDL	BDL	BDL	BDL
Mineral Oil	mg/l	<b>0.5</b>	NIL	NIL	NIL	NIL	NIL
Alkalinity	mg/l	<b>200</b>	34.00	37.50	45.88	91.00	52.09
Boron (as B)	mg/l	<b>0.5</b>	BDL	BDL	BDL	BDL	BDL

CL – Colourless, U/O – Unobjectionable, ND – Not detected. BDL (Below detection limit) Values :(Cu<0.05 mg/l , Mn<0.005 mg/l, C<sub>6</sub>H<sub>5</sub>OH<0.001 mg/l, Hg<0.005mg/l, Cd<0.001 mg/l , Se<0.001 mg/l, As<0.001 mg/l,Pb<0.01 mg/l, Zn<0.05 mg/l, Cr+6<0.05 mg/l, Al<0.001 mg/l , B<0.01 mg/l, NO<sub>3</sub><0.01 mg/l)

ADS 6: Affidavit in a Non-Judicial Stamp paper to comply with all statutory requirement & judgment of Hon'ble Supreme court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India & Ors as applicable as per Ministry OM dated 30.05.2018 shall be submitted.

Reply: Project Proponent submitted an affidavit in a Non-Judicial Stamp paper to comply with all statutory requirement & judgment of Hon'ble Supreme court dated the 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 as applicable as per Ministry OM dated 30.05.2018

ADS 7: Validity of the mine plan is required to be submitted as Mineable reserve for Chromium is shown as 5.247 Million tonnes and the proposal is for extracting 2.4 MTPA of Chrome.

Reply: Project Proponent submitted that Mining Plan & Progressive Mine Closure Plan in respect of Sukinda Chromite Block over an area of 406.00 ha of Tata Steel Mining Limited in the Jajpur district of Odisha has been approved under Rule 16(1) of Minerals (Other than Atomic and Hydro Carbons Energy minerals) Concession Rules, 2016 & Rule-23 of Mineral Conservation & Development Rule, 2017 for the period 2020-21 to 2024-25 vide letter no. MP/A/15-ORI/BHU/2020-21 dated 10.09.2020 of Regional Controller of Mines, Indian Bureau of Mines, Bhubaneswar Region.

Project Proponent submitted that During the plan period, the development of Underground Mine would commence and it would reach its rated capacity of 2.4 MTPA of ROM production during the conceptual period.

A total of 5.247 million tonnes of opencast reserve is presently left to be mined out and hence the company has planned for underground mining operation for sustainable chrome ore mining in future. The gestation period of underground mining is high compelling to plan the exploitation of the above open cast reserves in a sustainable manner so that smooth transition from opencast to underground mining will be done without any interruption in mining operations and continued revenue to State exchequer. Hence, the above open cast reserves will be exploited @ 1.04 million tonnes / annum on an average.

The underground development will be done below the friable-lumpy boundary. Total resources estimated below this boundary is 59.553 million tonnes which will be mined by underground operations. Additional exploration will be carried out (a total of 68 boreholes with a cumulative meterage of 4165m as proposed in the mine plan period) for converting these resources into reserves before exploitation.

Breakup of total resources (59.553 million tonnes) below the friable-lumpy boundary is as: Measured (331): 1.307 million tonnes, Indicated (332): 23.106 million tonnes, Inferred (333): 35.140 million tonnes.

ADS 8: Lease boundary plantation which was not visible in the KML file has to be substantiated with other evidences.

Reply: Project Proponent has submitted the Photographs showing the Lease boundary plantation. PP also submitted that company would undertake gap plantation in the area along the lease boundary wherever possible where there is less plantation is observed viz. South west side, eastern side, north eastern side etc. It has been planned to plant approximately 3,000 nos. saplings along the lease boundary in next two years.

Project Proponent also submitted that company has plan to plant 35,000 nos of saplings over 12 ha of OB-II backfilled area in next 4 years as per the Progressive Mine Closure Plan approved by Indian Bureau of Mines as follows:

Year	Plantation Schedule over the OB-II Backfilled Area	
	Area (ha.)	Plantation (Nos.)
2021-22	2	5000
2022-23	2	5000
2023-24	5	12500
2024-25	5	12500
<b>Total</b>	<b>12</b>	<b>35000</b>

ADS 9: PP should also submit an undertaking that it has not undergone any violation in either of the prior EC condition.

Reply: Project Proponent has submitted undertaking to the effect that Tata Steel Mining Limited has not undergone any violation to the Environmental Clearance of Tata Steel Limited which is now vested on Tata Steel Mining Limited by State Govt. of Odisha vide Letter No. 5555 /SM/IV(B)SM-32/2020 dated 29th June'2020 for two years from lease deed execution (w.e.f 22.07.2020).

ADS 10: Last 5 years mining operation of converting resources into mineable reserves including the Over burden and the waste along with the practices of managing the waste needs to be submitted.

Reply: Project Proponent has submitted that the production of Chrome ore ROM, overburden generation and total excavation done during last five years is shown in the Table given below:

Year	Chrome Ore ROM (Lakh Ton)	Overburden (Lakh Cum)	Total Excavation (Lakh Cum)
2015-16	10.19	28.30	31.70
2016-17	16.40	50.30	55.77
2017-18	15.70	65.51	70.74
2018-19	16.04	53.18	58.53
2019-20	17.96	48.73	54.72

Further, PP submitted the table showing the opencast mineable reserve position after necessary depletion and addition due to mining operation and exploration done respectively in last five years as below:

Year wise depletion	2015-16	2016-17	2017-18	2018-19	2019-20
ROM (Million Tonnes)	1.02	1.64	1.57	1.60	1.79

Reserve As on	01.04.2012	01.07.2017	01.10.2018	01.10.2020
Opencast Minable Reserve (Million Tonnes)	11.10	5.886	4.075	5.247

Project Proponent submitted that the overburden generated during last 5 years (~246 lakh Cum) was backfilled in the OB-II quarry located within the mining lease after exhaustion of opencast minerals reserves. In the next five years the overburden generated during the opencast mining shall be backfilled in the OB-II quarry and subsequently in part of OB-X quarry. The year wise generation of overburden and its storage is as shown in table given below.

Year	Generation of OB (LCuM)				Back filling at OB II & OBX Quarry (LCuM)	
	OB X Quarry (in-situ)	OB X Quarry (Rehanding)	Under ground	Total	Back filling (LCuM)	Location
2020-21	44.74	1.16	0	45.89	45.89	OB II Quarry
2021-22	61.23	1.81	0	63.04	63.04	OB II Quarry
2022-23	46.01	4.61	0	50.62	50.62	OB II Quarry   OB X Quarry
2023-24	46.58	0.68	1.18	48.44	48.44	OB X Quarry
2024-25	55.18	0.00	2.28	57.46	57.46	OB X Quarry
<b>Total</b>	<b>253.74</b>	<b>8.26</b>	<b>3.46</b>	<b>265.45</b>	<b>265.45</b>	

Project Proponent also submitted that the Company will reclaim the open pit of OB II quarry which has already been exhausted with opencast limit by back filling as per mining plan. Similarly, the inactive dump slopes will be rehabilitated by afforestation in a phased manner to complete by end of plan period. Back filling will be continued in part of quarry OB II till mid of 3rd year i.e. 2022-23 and subsequently in OB X quarry till the end of plan period i.e. 2024-25, progressively after OB X reaches Ultimate Pit limit. Once part of the back filled quarries reaches ground level, rehabilitation of the reclamation of area shall be done. In pursuant to the order dated 14.01.2020 passed by Ministry of Mines, Govt. of India consequent upon the order

dated 08.01.2020 of the Hon'ble Apex Court passed in W.P (c) No. 114/2014, the lessee shall carryout re grassing in mining area after closure of mines.

ADS 11: Transport routes within the lease boundary and outside should be delineated and submitted.

Reply:Project Proponent submitted that the Chrome Ore ROM excavated from the Mine Pit (OB-X) during the opencast mine shall be evacuated through the designated haul roads within the pit to store it the mineral stockyard located at the pit top. Similarly, during the underground mining, access route i.e, declines and subsequently shaft shall be used to evacuate the Chrome ore ROM produced to the mineral stockyard which is located at the pit top. The ROM shall be stacked in the mineral stockyard in geometrical shapes and samples shall be drawn to ascertain the grade of the stacks. These stacks shall be then verified by Mining Inspectors from Dy. Director of Mines Office, Govt. of Odisha and the removal permission shall be obtained for onward dispatch from the mine to various destinations after weighment and ensuring necessary documentation as per prevailing provisions of the relevant Act and Rules made thereunder by the State Government. PP has submitted a map showing the transportation route within the Mining Lease.

Project Proponent submitted that once, the mineral loaded truck exits from the Mining lease area follows the Tomka- Managpur State High way towards Tomka or Managpur to reach National Highway as per convenience and proximity to the destination. The tentative location and distance to which the Chrome ore shall be dispatched in future is as tabulated in Table below. The distance of destinations of Chrome ore consuming locations is between 30-140km. Further, presently, there is no rail connectivity joining the Chrome ore leases in the Sukinda valley with the ferrochrome manufacturing units. PP also submitted a map showing the transportation route from the mining lease to the own plants and major conversion units and sale units.

SI No.	Destinations	Location	Distance in (KM)
1	Odisha Chrome, Bhuban	Bhuban, Dhenkanal, Odisha	30
2	FAP Bamnipal	Bamniapl. Keonjhar, Odisha	40
3	Ananda Exports	Duburi, Jajpur, Odisha	40
4	Kalinga Minerals	Duburi, Jajpur, Odisha	40
5	Jindal Stainless	Kalinga Nagar, Jajpur. Odisha	42
6	BC Mohanty Plant	Duburi, Jajpur, Odisha	42
7	Khemka Industries	Kamakhya Nagar, Dhenkanal, Odisha	45
8	Rohit Ferrotech	Jajpur, Odisha	48
9	IMFA Choudwar	Choudwar, Cuttack, Odisha	115
10	Aarti Steel	Athagarh, Cuttack, Odisha	135
11	TS Alloys, Atahgarh	Athagarh, Cuttack, Odisha	140
12	Balasore Alloys	Balsaore. Odisha	175

ADS 12: Lease needs to be properly demarcated as it is abutting the many leases outside.

Reply: Project Proponent has submitted Precise Area DGPS map containing DGPS coordinates duly authenticated by ORSAC (Orissa Space Research Application Center, the nodal agency authorized by State Government) and appropriate authority in the State Govt. based on the actual demarcated mining lease on the ground and the photographs of Mining Lease pillars. The Mining operation is restricted within the mining lease area demarcated and bounded by mining lease pillars.

ADS 13: PP needs to upload the complete previous EC Letter in the PARVESH PORTAL and details of Compliance of Earlier EC Conditions.

Reply: Project Proponent has submitted that the Environmental Clearance letter held by previous lessee i.e Tata Steel Limited (Ref: J- 11015/96/2011-IA. II(M), dated 06.09.2013) and its compliance for the period from 01.09.2019 to 31.03.2020 submitted by previous lessee is now is uploaded in the Parivesh Portal.

ADS 14: Status of Compliance with regard to MINE CLOSURE PLAN of Earlier LESSEE be indicated.

Reply: Project Proponent has submitted the copy of compliance to Final Mine Closure Plan submitted by Tata Steel Limited to Regional Controller of Mines, Indian Bureau of Mines, Bhubaneswar Region vide letter no. FAMD/SCM/114/FY'21, dated 02.04.2020.

PP also submitted the copy of certificate under Rule 21(4) of MCDR, 2017 issued by Regional Controller of Mines, IBM, Bhubaneswar Region to the effect that protective, reclamation and rehabilitation work in accordance with the final mine closure plan approved by the competent authority have been carried out vide letter no. ORI/CR/JJP/MCDR-7/BBS/Vol.III, dated 22.06.2020.

ADS 15: Proof of application for forest clearance and NOC for de-watering needs to be submitted.

Reply: Project Proponent has submitted that as per the provision of Section 8B(2) of the MMDR Act, 1957 read with Rule 9A(4) of the Mineral (Other than Atomic and Hydrocarbon Energy Minerals) Concession Rule, 2016 Tata Steel Mining Limited have acquired all valid rights, approvals, clearances, licenses of the previous lessee i.e Tata Steel Limited for two years from date of the lease deed execution vide the Vesting Order granted Govt. of Odisha vide their Letter No. 5555 /SM/IV(B)SM-32/2020 dated 29th June'2020. PP has submitted copy of Vesting Order. The vesting order also includes the earlier Forest Clearance and NOC from CGWA (Letter no. 21- 4488/NOC No. CGWA/NOC/MIN/ORIG/2018/3161, dated 23.03.2018). PP also submitted that they have already submitted the application for grant of Forest Clearance over entire forest land over 404.669 ha vide the proposal no. FP/OR/MIN/51786/2020, dated 22.10.2020. PP has submitted that they are in the

process for detailed hydro-geological studies for estimating the exact quantities of mine pit dewatering. After completion of the studies, the application will be submitted to CGWA for obtaining NoC for dewatering during mining operations.

13. As per LOI no.555 dated 29.06.2020 submitted by PP, the mineral mentioned only 'chromite'.

14. The proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 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 for production of 2.4 MTPA Chrome Ore (ROM) with Maximum excavation of 6.56 Million Cum per Annum having mining lease area: 406.00 Ha of Sukinda Chromite Block of M/s TS Alloys Limited located at Village: Kalarangiatta, Kaliapani, Mahulkhal & Forest Block No. 27 under Sukinda Tehsil, Jajpur District of Odisha with the following specific conditions:

- i. PP needs to submit the copy of stage-I FC for the forest land involved.
- ii. The PP shall submit the present state of mine including primary environmental baseline data along with TOR application in order to assess the status and level of environmental compliance while transfer of lease. The PP 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.
- iii. The TOR 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
- iv. 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.
- v. The Project Proponent shall undertake the peripheral plantation and closed areas as well as gap plantation within 6 months with the seedling of 6-8 ft height having atleast 90% survival rate. An undertaking for the same also needs to be submitted by PP.

- 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.
- viii. Cost of the CER calculated shall be utilized for the concerns of the people in terms of health, education, and infrastructure and environment protection. PP 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(12 JANUARY,2021)**

#### **2.1: Jajang Iron Ore mine of M/s JSW Steel Ltd. for production of 12.80 million TPA (ROM) of Iron ore with maximum waste of 28.589 MTPA (OB/IB/SB) along with screening, crushing in lease area of 669.078 Ha (as per DGPS Survey)/666.150 Ha (as per ROR) land in villages Jajang, Jadibahal, Palsa(Ka), Bandhuabeda, Tehsil Barbil, District Keonjhar, Odisha [Proposal No. IA/OR/MIN/175990/2020] – Terms of Reference-Auction Mine**

The Proposal of M/s JSW Steel Ltd. is for grant of Term of Reference for production of 12.80 million TPA (ROM) of Iron ore with maximum waste of 28.589 MTPA (OB/IB/SB) along with screening, crushing in lease area of 669.078 Ha (as per DGPS Survey)/666.150 Ha (as per ROR) land in villages Jajang, Jadibahal, Palsa(Ka), Bandhuabeda, Tehsil Barbil, District Keonjhar, Odisha. The mine lease area falls under survey of India Topo sheet No. 73 F/8, F/12, G/5 & G/9. The indicative range of coordinates of the lease area is:

Pillar No.	Latitude	Longitude
1	21 <sup>0</sup> 54'44.23926"N	85 <sup>0</sup> 26'14.55590"E
23	21 <sup>0</sup> 53'33.49374"N	85 <sup>0</sup> 25'45.85255"E
31	21 <sup>0</sup> 55'52.37093"N	85 <sup>0</sup> 24'49.65672"E
12	21 <sup>0</sup> 56'08.11524"N	85 <sup>0</sup> 26'50.70226"E

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 vide proposal No. IA/OR/MIN/175990/2020 dated 28.09.2020 applied for grant of ToR and submitted Form-1 & Pre-Feasibility Report

and the proposal was considered in the 23<sup>rd</sup> EAC meeting held during November 23-25, 2020. The committee after detailed deliberations deferred the proposal for want of additional information. Project Proponent submitted the reply vide letter no. JSW/S/O/2020/462 dated 18.12.2020. The proposal was considered in the 26<sup>th</sup> EAC meeting held during January 11-13<sup>th</sup>, 2021.

4. The Project Proponent has submitted that the Jajang iron ore mine (erstwhile lessee M/s Rungta Mines Limited) was one of the mines whose lease expired on 31.03.2020. Government of Odisha vide letter No. 3007/ S&M/ Bhubaneswar/IV(Misc)SM-66/2016 dated 18th March 2020 issued the notice for grant of Mining Lease (ML) for Jajang Iron Ore Block over an area of 666.15 ha as per ROR (669.078 ha as per DGPS computation) in villages Jajang, Jadibahal, Palsa (Ka), Bandhuabeda under Barbil tehsil of Keonjhar District, Odisha for a mineable reserve size of about 34.87 Million tonnes (Mt).

The Project Proponent submitted that in pursuant to the Mines and Minerals (Development and Regulation) Act, 1957 and the Mineral (Auction) Rules, 2015, Govt. of Odisha issued the notice inviting tender dated 6th December, 2019 for commencement of the auction process to grant the mining lease in respect of Jajang Iron Ore Block located in villages Jajang, Jadibahal, Palsa (Ka), Bandhuabeda under Barbil tehsil of Keonjhar district, Odisha. The e-auction process was conducted in accordance with the tender document and the mineral auction rule, 2015 for the said mineral block and M/s JSW Steel Limited was declared as the Preferred Bidder under Rule 9(9) (iii) of Mineral (Auction) Rules, 2015. Without prejudice to the generality of the provisions of section 8B(2) of the MMDR Act, 1957, the details of the valid rights, approvals, clearances, licenses, and the like held by the previous lessee are vested in favor of M/s JSW Steel Ltd by the Govt. of Odisha for a period of 2 years from the date of execution of lease deed or till the date of getting fresh approvals, clearances, licenses, permits, and the like, whichever is earlier vide order No-4190/SM, dated 29.05.2020. M/s JSW Steel Limited being successful bidder upon execution of mining lease deed, the Successful Bidder shall immediately, but not later than one hundred twenty days from the date of execution of mining lease, apply afresh for all necessary rights, approvals, clearances, licenses and the like under the applicable statutes, rules or regulations, as the case may be, for obtaining the necessary clearances to enable further continuance of the mining operations beyond two years and vesting order shall be valid for a period of two years from the date of execution of new lease deed or till the date of getting all fresh approvals, clearances, licenses, permits, and the like, whichever is earlier.”

Subsequent to signing of the MDPA, M/s JSW Steel Limited has made payment of the third installment being the eighty percent of the upfront value and executed and registered the mining lease with the Government of Odisha on 27.06.2020 and the mining lease was granted in favor of M/s JSW Steel Limited for a period of 50 years w.e.f 27.06.2020.

5. The Project Proponent has submitted that the allotted mining block has an area of 666.15 ha as per ROR (669.078 ha as per DGPS computation). As per LS certified by Tahasildar, Barbil- Forest: 543.916 ha and Non Forest area 121.003 Ha. (Stage-II) FC of 447.811 ha (incl 44.70 ha Rev.F) already diverted on 28.08.2014 & vested to JSW for 2 years. Fresh forest clearances under FC Act, 1980 for diversion of 543.916 ha of forest land has also been applied vide Proposal No. FP/OR/MIN/50705/2020 dated 09.10.2020.

6. The Project Proponent has submitted that the total mineable reserves are 34.87 Million tonnes (Mt) as on 01.04.2020 as per approved mining plan in the name of M/s JSW Steel Limited vide letter no. MP/A/13-ORI/BHU/2020-21 dated: 19.08.2020. Fully mechanized open cast method of mining by drilling and blasting and by deploying HEMM equipment's like hydraulic drills and excavators, wheel loaders, dumpers, will be undertaken. The height and width of the benches for iron ore will be kept at 9 m and 15 m respectively. The working of benches will be commenced from top and extended to bottom benches. The excavated ROM ore is proposed to be processed in the crushing and screening plants to obtain the lump and fine ore as product mix. The iron ore lumps and iron ore fines extracted from the mine will be transported through railway/port/road to JSW Steel Plants. There are two no.s of railway siding namely, BIL sliding, Jajang Railway sliding existing within the mine lease area. These sidings will be used for transportation of ore of Jajang block. Further, the Railway sidings will also be used for transportation of ore of other mining leases viz., Nuagaon, Narayanposhi, Gonua & upcoming mines of M/s JSW Steel Ltd. The excavated ROM ore is proposed to be processed in the 3x 360 TPH, 2x 200 TPH, 1x175 TPH mobile crushing units and 10x400 TPH, 1x 180 TPH, 1x170 TPH mobile screening plants to obtain the lump and fine ore as product mix.

7. The Project Proponent submitted that the total make-up water requirement for the proposed mining is about 2098 m<sup>3</sup>/day and it will be met from surface water and ground water sources. NOC from CGWA for 1015 m<sup>3</sup>/day is already vested to JSW for 2 years, new application for the NOC is applied.

8. The Project Proponent submitted that the mine area does not cover any habitation. Hence, the mining activities do not involve any displacement of human settlement. No public buildings, places, monuments etc., exist within the lease area or in the vicinity. The mining operations will not disturb / relocate any village. In view of this, there are no Rehabilitation & Resettlement issues.

9. The Project Proponent submitted that One case is pending for proposed Jajang mine at Odisha High Court with order no. WP (C) 24918/2020 regarding the refund of excess stamp duty paid during the time of registration of lease deed. Till now no order has been passed.

10. The Project Proponent submitted that the total capital investment in the Jajang iron ore mine is about Rs. 485 Crores which includes the cost of mine development, plant & machinery, utility facilities and mine closure cost.

11. Following are the ADS points which were raised in the last EAC meeting i.e. 23<sup>rd</sup> EAC meeting held during 23-25 November, 2020 and reply submitted by Project Proponent on dated 18.12.2020:

SI. No.	ADS	Reply by PP
1.	Status of earlier EC compliance and latest environmental quality of the study area.	<p>Project Proponent submitted that:</p> <ul style="list-style-type: none"> <li>• The Jajang iron ore mine (erstwhile lessee M/s Rungta Mines Limited) was one of the mines whose lease expired on 31.03.2020 and while participating in the competitive auction process, JSW Steel has submitted the highest final price offer in respect of Jajang, Iron Ore Block. The letter of intent [LOI] and vesting order for all statutory clearances including EC has already been issued by the Steel &amp; Mines, Govt. of Odisha.</li> <li>• Fresh ToR application was submitted to MoEF&amp;CC and the proposal was considered in November 23-25, 2020 EAC meeting. The committee asked the status of EC compliance which was not handed over by the previous lessee.</li> <li>• The EC compliance was searched in the public domain and obtained the copy which has been submitted along with the ADS reply.</li> <li>• JSW vide letter JSW/S/O/2020/431 Dated 26.11.2020 has requested SPCB, Odisha and Regional office MoEF&amp;CC for status of earlier EC compliance.</li> <li>• The latest Environmental quality (monthly monitoring reports) in and around the mine lease area has been submitted with the reply of ADS.</li> <li>• The baseline study is being carried out from 1<sup>st</sup> October to 31<sup>st</sup> December 2020 and the details will be submitted in the EIA report.</li> </ul>
2.	PP should upload the Approval of Mining plan which is approved by IBM on 19.08.2020 in the	Project Proponent submitted that the mining plan is approved by IBM vide Lr. No. MP/A/13-ORI/BHU/2020-21 Dated 19.08.2020 and the same was uploaded in the PARIVESH Portal.

	PARIVESH portal.	However, due to size restriction in the portal the complete approved mine plan could not uploaded. The complete mine plan is submitted along with the ADS reply.
3.	PP should submit the proof of application made in the name of M/s JSW Steel for obtaining ground water withdrawal permission from CGWA.	Project Proponent submitted that NOC from CGWA for 1015 m <sup>3</sup> / day is already vested to JSW for 2 years. Hardcopy NOC application was submitted to CGWB on dated 16.10.2020 as the online application portal was under maintenance due to up gradation of new guidelines.
4.	PP needs to submit the details of the court case pending at Odisha High Court with order no. WP (C) 24918/2020.	Project Proponent submitted that the case is pending at Odisha High Court with order no. WP (C)24918/2020 regarding the refund of excess stamp duty & registration fees paid during the time of registration of lease deed. The court has been pleased to issue notice to State Govt. of Odisha and the next date is fixed to 15 <sup>th</sup> January 2021. The outcome of the case has no impact on the mining operations.
5.	In the Core Zone Mineral Processing Plant is proposed as per the Presentation made; thus, Mineral Processing Plant is part of TOR proposal or not? need to clarify,	Project Proponent submitted that the applied ToR proposal is for production 12.80 MTPA (ROM) along with screening (10x400 TPH, 1x180 TPH, 1x170 TPH) and crushing (3x360 TPH, 2x200 TPH, 1x175 TPH) only. Further no mineral processing plant is proposed. However, in future if any change in process is proposed JSW will approach concerned authority for approval.
6.	Details of Equipments & process involved, Capacity of Plant & proposed Environmental mitigation measures	Project Proponent submitted that the excavated ROM ore is proposed to be processed in the (3x360 TPH, 2x 200 TPH, 1x 175 TPH) mobile crushing units and (10x400 TPH, 1x180 TPH, 1x170 TPH) mobile screening plants to obtain the lump and fine ore as product mix. The dry fog and water sprinkling system is in place as mitigation measure. The details of equipments are provided in the PFR.
7.	TOR proposal is for ROM production basis of Iron Ore. Therefore envisaged Mass balance of Saleable Ore, Sub Grade Ore, Mineral Rejects & waste generated along with	Project Proponent has submitted the mass balance along with storage & disposal plan. No manganese production is proposed from this mine.

	storage & disposal plan to be furnished in respect of Iron & Mn Ore.	
8.	Details of existing Green Cover & Proposed Green cover in next five years & at conceptual stage including Safety zone Plantation along Lease boundary.	Project Proponent has submitted details of existing, proposed and conceptual green cover in the reply.
9.	Status of Compliance of NEERI recommendations for Iron ore for Odisha be indicated.	Project Proponent has submitted that NEERI compliance report was not handed over by earlier lessee. However, JSW has requested SPCB, Odisha and Regional Office MoEF&CC for providing the NEERI compliance status submitted by earlier lessee i.e. M/s Rungta Mines on 26.11.2020 and same is under consideration.

12. The proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 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 for production of 12.80 million TPA (ROM) of Iron ore with maximum waste of 28.589 MTPA (OB/IB/SB) along with screening, crushing in lease area of 669.078 Ha (as per DGPS Survey)/666.150 Ha (as per ROR) land in villages Jajang, Jadibahal, Palsa(Ka), Bandhuabeda, Tehsil Barbil, District Keonjhar, Odisha. In addition to Standard Term of Reference for non-coal mining, standard ToR as per the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific term of reference for this project:

- i. The Project Proponent shall submit the present state of mine including primary environmental baseline data along with TOR application in order to assess the status and level of environmental compliance while transfer of lease. The PP 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.
- ii. The TOR 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
- iii. 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.
  - iv. The Project Proponent shall undertake the peripheral plantation and plantation in closed areas as well as gap plantation with atleast 90% survival rate all along the lease boundary within 6 months. An undertaking for the same also needs to be submitted by PP.
  - v. 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.
  - vi. 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.
  - vii. Total excavation of the mineral should not exceed 28.85 MTPA as per the earlier EC. Flow sheet for total excavation should be brought out clearly in the EIA report.
  - viii. The Project Proponent should properly address the material handling in the EIA report from view point of pollution load and EMP should be in place for its impact and mitigation.
  - ix. If the mining plan is revised at the time of appraisal of EC, the same to be accounted along with its environmental impact and addressed in the EIA report.
  - x. The Project Proponent submitted that the plantation already carried out in 100.191 Ha and in 69.80 Ha it is proposed to carry out. Hence, the PP shall undertake the plantation in the remaining 69.80 Ha before the closure of mine.
  - xi. Issues related to earlier Public Hearing should be taken as action report and concerns of the public to be addressed in the EIA report.
  - xii. The transportation through road is restricted to 20% and the issues related to transportation along with its impact to be described in the EIA/EMP report.

- xiii. The R&R plan needs to be prepared in such a way to see the socio economic impacts in the study area and to be detailed in the EIA report, as the habitations are nearby.
- xiv. PP should give undertaking for compliance of earlier EC conditions within 6 months.
- xv. Cost of the CER calculated shall be utilized for the concerns of the people in terms of health, education, and infrastructure and environment protection. PP 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.
- xvi. The Proposed Mining with Bench Heights of only 9 Meters for such a high level of Excavation may be re-examined by the PP for sustainable levels of Production as Proposed.

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

The proposal of M/s Jaykaycem (Central) Limited is for Terms of Reference for production capacity of 9.05 Million TPA of ROM (Lime Stone: 5.08 MTPA; Soil: 2.94MTPA 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 26°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 14<sup>th</sup> 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 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021.

4. The Project Proponent has submitted that Jaykaycem (Central) Limited applied for grant of mining lease over an area of 3514.026 hect. After scrutinisation of ML application at Govt. Department, about 418.796 hect has been deducted falling in inhabitant parts, roads, nalla etc along with the statutory safety zone and Mineral Resource Department, Government of Madhya Pradesh granted the Mining Lease over an area of 3095.23 hect for a period of 50 Years vide order no. F3-5/2017/12/1 dated 23.11.2020.

5. The Project Proponent submitted that the Mining Plan along with Progressive Mine Closure Plan has been approved by IBM, Jabalpur vide letter no. MP/PANNA/LIMESTONE/ MPLN/G-06/2020-21 dated 01.10.2020.

6. The Project Proponent submitted that the opencast conventional fully mechanized method of mining will be adopted which includes drilling, blasting, loading, transportation and crushing. The probable reserve of limestone is 630.851 Million Tonnes under UNFC code 121 & 122 and the blocked resources are 376.529 MT in turn total 1007.38 MT total assessed tonnage. Hydraulic drills will be used. Diameter of the blast hole drill will be 110 mm. Blasted material will be loaded by the excavator in dumper and will be sent to crusher plant proposed within the mining lease area at the capacity of 1800 TPH with dry screening facility.

7. The Project Proponent submitted that nearest habitation is Simariya, (0.75km, SE), nearest Govt. School is Pagara (0.34km, NW) and nearest highway is SH-49 (1.28km, SSE).

8. The Project Proponent submitted that the total water requirement for the proposed project will be 160KLD. Out of 160 KLD, 10KLD will be required for drinking and sanitation purposes and rest 150 KLD will be required for dust suppression, plantation and in LS Crusher. Presently, Project area is categorized as safeblock (non-notified category) zone as per the guidelines/ criteria for evaluation of proposals/ requests for ground water abstraction with effect from 15.11.2012 by CGWA. Water demand will be sourced from nearby water sources or ground water after obtaining necessary permission from the competent authorities.

9. The Project Proponent submitted that Out of the total ML area of 3095.23 Ha, the disturbed area is 1962.88 Ha and the 33% plantation including safety zone plantation, along the boundary of villages, roads, nallahs, backfilled area and bench afforestation etc. comes to 648 Ha. and considering the 2000 trees per hectare the total target is 1296000 Nos till the conceptual stage. The plantation in 33% of disturbed area will be maintained on year-on-year basis. Plantation area along the lease boundary would be 32.05 Ha [total 38.7 Ha. – 6.65 Ha. (in first five year)] along the village boundary, roads and nallahs will be 35 Ha. [total 45 Ha. – 10 Ha. (in first five year)] and on back filled area 580.95 Ha. However, the total back filled area at the CP stage will be 1278.23 Ha. out of which 580.95 ha will be used for plantation and rest i.e., 697.28 Ha would be undertaken for re grassing.

10. The Project Proponent submitted that there is no forest land in the M.L area. The mining lease area (3095.230 Ha) comprises of Govt. Land- 167.72 Ha and Private Khatedari Land – 2927.510 Ha. The project proponent also submitted that there are no National Park, Wildlife Sanctuary, Eco Sensitive Areas, CRZ within 10-km radius of the study area. However, Panna Tiger Reserves is located at about 13.75 Km, in NNW direction from the mining lease area and protected forest such as Pagra P.F (0.16 Km, North), Jaitpura P.F (7.64 Km, NW), Udla P.F (7.77 Km, NNW) and Bardha P.F (9.38 Km, WNW) are found in the 10km radius.

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 Capital Investment is Rs. 300 crores and the capital cost for Environment Management Plan is Rs 2752 Lakhs and recurring cost is Rs 29 Lakhs/annum. The employment generated by this project is around 226 persons.

13. The proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. Based on the documents submitted and presentation made by the Project Proponent and the consultant, the Committee **deferred** the proposal and was of the view that proposal may be considered after submission of the following information:

- i. 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.
- ii. Topsoil generation is 2.94 MTPA and hence the PP needs to include the cost of the soil and loss of nature in the the Cost Benefit analysis. PP should also submit the details of utilization and storage of top soil in the mining lease area.
- iii. The Project Proponent needs to submit the land acquisition procedure to be adopted and resettlement proposal to compensate the land.
- iv. 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.
- v. The Project Proponent needs to submit the segment wise progressive surface plan in the proposed lease area.
- vi. The Project Proponent needs to submit the plan to address the the current hydrogeology and the likely change of hydrogeology within the mining lease

area due to mining.

- vii. 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.
- viii. 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.
- ix. 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.
- x. The Project Proponent should submit proof of application submitted to CGWA for withdrawal of water.
- xi. 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 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.
- xii. PP should give details of such large quantity of Water proposed to be utilised 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.

**2.3: Suvakheda & Kheda Rathore Limestone Mine of M/s Veer Durgadas Minerals Private Ltd, over an area of 221.043 Ha for a production capacity 0.5 million TPA., located at Village Suvakheda & Kheda Rathore, Tehsil – Jawad, District – Neemuch, Madhya Pradesh - [Proposal No: IA/MP/MIN/189486/2020, File. No: J-11015/83/2020-IA-II(M)] - ToR**

The proposal of M/s Veer Durgadas Minerals Private Ltd is for a production capacity 0.5 million TPA, over an Mine Lease area of 221.043 Ha for a production capacity 0.5 million TPA., located at Village Suvakheda & Kheda Rathore, Tehsil – Jawad, District – Neemuch, Madhya Pradesh. The mine lease area falls under the Survey of India Toposheet No 45 L/14 and bounded by Latitude – 24° 32'05.47" N to 24° 33'42.56" N and Longitude - 74° 49'24.55" E to 74° 51'51.18" E.

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 is

Category "A" project.

3. The Project Proponent applied online for grant of Terms of Reference (ToR) vide proposal no. IA/MP/MIN/189486/2020 dated 23.12.2020 and submitted Form-1 & Pre-Feasibility Report and the proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021.

4. The Project Proponent has submitted that M/s Veer Durgadas Minerals Pvt. Ltd. is a company established on 01.09.2011 under the Companies Act, 1956. The company applied for Prospecting License (PL 19/2011) over an area of 2480 hectares in the village Suwakheda and Khera Rathore, Tehsil Jawad, District Neemuch, Madhya Pradesh(MP) on 15.09.2011. On 21.12.2011, the company revised the PL application and reduced the area to 368.346 ha. The District Collector, Neemuch, MP on 22.03.2012, recommended an area of 221.043 ha. for grant of Prospecting license after deducting the area for safety barriers. Mineral Resource Development, Govt. of Madhya Pradesh granted the Prospecting License to the company, over an area of 221.043 hectares Order no. F2-113/2012/12/1 dated 14.08.2013 for a period of two years. The PL was executed on 17.10.2013 and registered vide deed no. 1881 dated 05.11.2013 for a period of two years. Possession of land for the purpose of prospecting work was given by the Tehsildar, Jawad on 25.03.2014 and thereafter the District Collector Neemuch granted permission for the possession a land dated 05.08.2015. District Collector, Neemuch recommended to the State Govt. vide his letter no. 607 dated 07.04.2016 to grant the lease. Mineral Resources Department, Govt. of Madhya Pradesh issued letter of intent (LOI) to grant the mining lease over an area of 221.043 hectares in village Suwakheda and Kheda Rathore for a period of 50 years for the mineral limestone (non-captive use) vide letter no. F 3-58/2018/12/1 dated 03.10.2018. Mining Lease Agreement granted by mineral resources department of M.P. vide order no. F 3-58/201812-1 on dated 07.02.2020 for period of 50 years from date of lease registration and the Mining Lease was registered on 25.06.2020.

5. The Project Proponent submitted that the Mining Plan along with Progressive Mine Closure Plan was approved by Regional Controller of Mines, IBM Jabalpur vide letter no. MP/Neemuch/LIMESTONE/ MPLN/G-08/19-20 dated 19.12.2019.

6. The Project Proponent submitted that the proposal is for the mining of mineral Limestone. Proposed method of Mining will be mechanized opencast with drilling and blasting. 100-115 mm diameter blast holes will be made using wagon drill. Two Excavator of 2.1 cu.m bucket capacity will be used for excavating. For the systematic working of opencast mines, benching will be done. Reserves have been estimated based on prospecting and exploration carried out by State Govt. The mineable reserves has been estimated to 23.84 million tonnes at proposed production capacity 0.5 million TPA. The height of bench will not be kept more than 8.0m at a time and the width of benches will always be more than the height. Total excavated area will be 46.09 Ha during the conceptual phase of mine.

7. The Project Proponent submitted that nearest habitation is Sukha Kheda, nearest Govt Sr. Sec. School at Suvakheda and nearest highway is NH 79 (2.55 km, SWW).

8. The Project Proponent submitted that the total water requirement is about 25KLD – 30 KLD, out of which 1.0 KLD - 2 KLD (Drinking & Domestic Uses), 10 KLD –13 KLD (Plantation) and 14 KLD – 15 KLD (Dust Suppression). Drinking water will be made available through PHED supply. Water for dust suppression and plantation will be arranged from nearby villages. Water table in the area is 60 – 70 m.

9. The Project Proponent submitted that during the mine life it is proposed to do plantation covering area of about 73.0 hectares and during five years period about 7500 no. of trees will be planted in an area of 7.5 Ha Within statutory boundary barrier within the Mine Lease area and VI year to till mine life 65500 no. of trees will be planted in an area of 65.5 Ha along statutory boundary barrier, road barrier, barren land and on the backfilling area.

10. The Project Proponent submitted that the Mine lease area 221.043 Ha is Non-Forest Area. The mining lease area comprises of 26.362 hect of Govt. waste land and 194.681 hect. of Private land. The project proponent also submitted that there is no National Park/ Sanctuary/Eco sensitive Zone and National Monument within 10 KM radius of the Mine Lease area.

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 project cost is Rs. 5.0 crores. The employment generated by this project will be 29 persons [Managerial & Supervisory personnel - 07 persons, Skilled- 10 persons, semi skilled - 10 persons and Un-skilled - 02 persons].

13. The proposal was considered in the 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. The Member Secretary informed the Committee that PP vide email dated 07.01.2021 has sought for deferment of the proposal. However, EAC deliberated the proposal based on the documents and information submitted by the PP on the Parivesh portal and **deferred** the proposal and was of the view that proposal may be considered after the submission of the following information:

- i. The Project Proponent needs to resubmit the KML file showing the entire mining lease area of 221.043 Ha.
- ii. The Project Proponent needs to submit the proof of application submitted to CGWA for withdrawal of water.
- iii. Project Proponent should submit a map demarcating the mineral zone and

the other surface features in the study area.

- iv. Project Proponent should submit an undertaking by way of affidavit as required as per Ministry's O.M No 3-50/2017 -IA. II(M) dated 30.05.2018 to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.

**2.4: Proposal for Environmental Clearance (EC) of River Bed Sand/Morram Mining Project at Yamuna River over an area of 108.499 Ha with proposed production of 14.64 LTPA/ 14,64,862 TPA located near Village DhaurahraKhadar, Tehsil Rajapur, District Chitrakoot, State Uttar Pradesh by M/s. Jai Mata Di Packaging [Proposal No. IA/UP/MIN/178044/2018; File No. J-11015/25/2018-IA-II(M)]-Environmental Clearance**

The Proposal of M/s. Jai Mata Di Packaging is for Environmental Clearance (EC) of River Bed Sand/Morram Mining Project at Yamuna River over an area of 108.499 Ha with proposed production of 14.64 LTPA/ 14,64,862 TPA located near Village DhaurahraKhadar, Tehsil Rajapur, District Chitrakoot, State Uttar Pradesh. The mining lease area is a part of the Survey of India Topo-sheet No. 63G/02 & 63G/03. The site falls between latitude 25°30'00.39" to 25°30'38.64"N and longitude 81°07'09.46" to 81°08'00.12"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", Project or Activity 1(a) as the mining lease area is more than 100 ha.

3. The project proponent had obtained Terms of Reference (ToR) from MoEF&CC vide letter no. J-11015/25/2018-IA.II (M), dated 28.05.2018. The proposal was earlier considered in the EAC meeting held during 26-27<sup>th</sup> February 2020, the Committee returned the proposal in present form due to serious lapse on the part of consultant in filling the Form-2 and submission of relevant document. The Committee suggested to apply afresh with revised EIA Report after rectifying the Form-2 and compliance of ToR conditions. Again, the project proponent applied for Environmental Clearance on 9<sup>th</sup> October, 2020. EDS was generated on 19<sup>th</sup> November, 2020. Reply for the same submitted on 21<sup>st</sup> December, 2020 by the project proponent. The proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021.

4. The project proponent submitted that M/s. Jai Mata Di Packaging, Part. – Shri Ashish Girdhar & Shri Sachin Girdhar, is on the list of successful bidder in the process of e-tendering as per U.P. Govt. order No. 1875/86-2017-57(s)/2017 TCI, dated 14.08.2017 under U.P. Minor Mineral (concession) Rule 1963 the Govt. made a policy to auction the river bed sand/ Morram (except, the area where Hon'ble high court has issued stay order) through e-tendering by the District magistrate

Chitrakoot for mining lease for period of 05 years. After successful bidding District magistrate Chitrakoot has issued LOI in favor of M/s Jai Mata Di Packaging, Part. – Shri Ashish Girdhar & Shri Sachin Girdhar for extraction of 16,27,485 cum/year sand / Morrum along the Yamuna river over an area of 108.499 Ha. in village – Dhaurahara Khadar, Gata No. 2Ka, 2Kha, 3,4/1,4Ka,4Kha, 5,6,7,11,21/3,8,9,10, tehsil-Rajapur, District Chitrakoot U.P. vide letter no. 1144/ khani/e-tendring/sahmatipatra/2017/18, dated 28 November 2017.

5. The project proponent submitted that the mining plan with Progressive mine closure plan has been approved under rule 34 (2) of U.P. Minor Mineral (concession) Rule 1963 vide letter no. 1770/Mining Plan/2017 on dated 31.10.2018.

6. The project proponent submitted that opencast mechanized mining with manual sizing and loading will be carried out. Mining of River Sand/Morram is proposed in the riverbed, the total mining area is 108.499 ha. The total mineable reserves comes to 1727897 M<sup>3</sup> with production target of 8,13,812m<sup>3</sup>/ 14,64,862 tonnes per annum. It will be replenished after rainy season. Density factor 1.8 taken for Sand/ Morrum. Applied area is situated well within the meandering corridor of Yamuna River. Excavator / L&T Kamastu 200 OR Hundai-210 (1.2M<sup>3</sup>) Shall be deployed for excavation & loading of sand/morram into tata tipper. Drilling & blasting not required. Mining of each successive year is proposed to 1.78m. depth of mineral bed according to bench parameter 1m high & 05 m wide bench in ordinary sand maintaining less than 10° slope in loose sand.

7. The project proponent submitted that nearest villages is Dhaurahara Khadar, nearest school is Rajapur and nearest highway is SH 13 which is about 9.0 km from the mine site.

8. The project proponent submitted that water requirement for mining & allied activities (sprinkling, greenbelt development), drinking and plantation will be 20.50KLD. Water will be taken from nearby villages. The project proponent submitted that area to be developed for plantation is over an area of 5.0 ha around the mine site.

9. The project proponent submitted that no forest land is involved within the lease area. The project proponent has submitted that one schedule-1 species has been found in the area i.e. peacock. Copy of authenticated List of Flora fauna from DFO and certified Conservation Plan from CWL warden, Forest Department has been submitted. The district survey report has also been submitted by the project proponent.

10. The project proponent has submitted the copy of replenishment study report based on Meyer-Peter's equation conducted by CMPDIL & actual Replenishment study as per field survey, pre-monsoon & post monsoon data with across as wells

along sections and quantities measured by graphical calculations. As per the replenishment study, the mining will commence from the upper level and advance towards lower level as well as in horizontal extent. As the pit shall reach the maximum depth (1.78m) from surface so that mined out area shall be left open for replenishment during monsoon. The reclamation will occur naturally in such a manner that original topography shall be restored. Three permanent benchmark (BM) has been established and it is close to the nearby area. In the first five years, mining excavation will be excavated and next year dig will be replenishment with heavy monsoon season.

11. The project proponent submitted that the baseline data collection was occurred during March to May, 2018. The public hearing was conducted on dated 01.03.2019. The project proponent also submitted that there is no litigation pending against the proposal.

12. The project proponent submitted that EMP cost is Rs 6.0 lacs/annum, funds allocated for occupational health and safety is Rs. 1.5 lacs/annum and total project cost is 1.14 Crore. 110 persons will be employed from the proposed project.

13. The proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. Project proponent has submitted Letter of Intent (LOI vide letter no. 1144/khanij/e-tendring/sahmatipatra/2017/18, dated 28.11.2017). After detailed deliberations made by the project proponent; the Committee noted that replenishment study carried out by CMPDI and DGPS is approximately matching.

14. Based on the documents submitted and presentation made by the project proponent and consultant, the Committee **recommended** the proposal for grant of Environmental Clearance of River Bed Sand/Morram Mining Project at Yamuna River over an area of 108.499 Ha with production of 0.746 MTPA, as per replenishment study located near Village Dhaurahra Khadar, Tehsil Rajapur, District Chitrakoot, State Uttar Pradesh by M/s. Jai Mata Di Packaging for a period of **one year** with subject to submission of valid mine lease document issued by the Department of State Government with following specific conditions and also the relevant special conditions as per Sustainable Sand Mining Management Guidelines 2016 and Enforcement & monitoring Guidelines for sand mining 2020:

- (i) Environmental Clearance (EC) will be functional only after the Lease is Executed.
- (ii) Permissible Mining of river bed material shall be limited to 0.746 MTPA from an effective mineable area of 108.499 ha, with a maximum minable depth of 1 meter from the original ground level. The permissible minable material of 0.746 MTPA will be valid till **one year** from the day of issuance of the Environmental Clearance.

- (iii) For subsequent period, project proponent shall submit fresh annual replenishment study to MoEF&CC for amendment in EC for mineable quantity and maximum permission depth for mining based on the scientific findings of replenishment study. Such study shall be placed before EAC for appraisal for next three years to assess rate of deposition and accordingly, minable production capacity and depth can be prescribed based on trends analysis, provided it is found scientifically satisfactory by the EAC. The placing of the study report before EAC is mandatory for initial three years.
- (iv) The project proponent shall take all measures for the surveillance as proposed by the project proponent. The status of implementation with documentary proof needs to be submitted to Regional Office of MoEF&CC before 1<sup>st</sup> July of every year for the activities carried out during previous year.
- (v) Not more than 20.50 KLD water shall be used for this project. At least 3 times day water shall be sprayed to avoid fugitive emission. PP shall submit the status report for implementation along with photograph to IRO of MoEF&CC before 1<sup>st</sup> July of every year for the activities carried out during previous year.
- (vi) The project proponent shall plant 1500 plants per hectare. Proponent should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the IRO of MoEF&CC before 1<sup>st</sup> July of every year for the activities carried out during previous year.
- (vii) The conservation plan in consultation with the Forest Department shall be implemented and compliance of the same shall be submitted to IRO of MoEF&CC before 1<sup>st</sup> July of every year.
- (viii) The project proponent shall implement the mitigation measure to control the impact due to transportation. Implementation report with supporting documents & photographs before and after shall be submitted to the IRO of MoEF&CC before 1<sup>st</sup> July of every year for the activities carried out during previous year.
- (ix) The Project Proponent shall submit the time- bound action plan to the concerned IRO of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the CER activities, committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.
- (x) The project proponent shall implement all mitigative measures envisaged in the Environmental Management Plan (EMP) and committed during the presentation and subsequent submissions. The water shall be sourced from

legal water supplier and record of the same needs to be maintained. In addition to this PP shall also keep a record of water spraying trips on daily basis. A separate Environment management cell (EMC) shall be created with suitable staff having relevant qualification in environment with supporting staff. Implementation report with supporting documents, test reports, geo-locations & photographs before and after and composition of EMC shall be submitted to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.

- (xi) PP shall implement the occupational health plan and provide personal protective equipment to all the workers (*helmets, dust masks, ear muffs*), provision of safe drinking water to workers, shelters for rest etc. In addition to this Occupational health check-up of all workers working in mine, and pulmonary function test for workers working in dusty areas. Implementation report with supporting documents & photographs before and after shall be submitted to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
- (xii) The project proponent shall attain the permitted production capacity through sequential mining and no simultaneous operation shall be carried in the staged and identified stretch.
- (xiii) The project proponent shall implement the conditions prescribed in Enforcement & Monitoring Guidelines for Sand Mining 2020. Implementation report with supporting documents & photographs before and after shall be submitted to the IRO of MoEF&CC before 1st July of every year for the activities carried out during previous year.

**2.5: Proposal for Environmental Clearance (EC) of MangrolTilakhera Limestone Mine with expansion from 1.6 Million TPA [ROM] of Limestone to 2.4 Million TPA (ROM) Total Excavation (Limestone 1.80 Million TPA + Mineral Rejects-0.55 Million TPA + Interstitial clay-0.04 million TPA + Soil-0.01 Million TPA) in the mine lease area of 299.20 ha located at village Mangrol and Tilakhera, Tehsil Nimbahera, District Chittorgarh, Rajasthan by M/s. J.K. Cement Limited[Proposal No. IA/RJ/MIN/181062/2018; File No. J-11015/25/2011-IA.II (M)]-Environmental Clearance**

The Proposal of M/s. J.K. Cement Limited is for Environmental Clearance (EC) of MangrolTilakhera Limestone Mine with expansion from 1.6 Million TPA [ROM] of Limestone to 2.4 Million TPA (ROM) Total Excavation (Limestone 1.80 Million TPA + Mineral Rejects - 0.55 Million TPA + Interstitial clay - 0.04 million TPA + Soil - 0.01 Million TPA) in the mine lease area of 299.20 ha located at village Mangrol and Tilakhera, Tehsil Nimbahera, District chittorgarh, Rajasthan. The mining lease area is a part of the Survey of India Topo-sheet No. 45L/10. The site falls between latitude 24°41'33.0" to 74°40'59.5 N to longitude 24°42'44.1" to 74°41'00.0"E and falls in seismic zone-II.

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

3. The proposal was considered for ToR in the EAC meeting held during July 19- 20, 2018. The ToR was granted by MoEF&CC vide letter dated 8th August 2018. The project proponent submitted the application on 31st October, 2020. An EDS was raised on 09.11.2020. PP submitted the reply on 10.11.2020. Then, the proposal was placed in 24<sup>th</sup> EAC meeting held on 11<sup>th</sup> December, 2020 wherein the Committee deferred the proposal due to the following information.

**Query No.1:-** Revised environmental management plan (EMP) with proper capital cost. Additional EMP capital cost and recurring cost separately.

**Reply:-** Revised environment management plan is given below:-

Environment Management Plan for Tilakhera Limestone Mine								
S. No.	Particulars	Capital Cost (Rs. In Lacs)	Capital investment Year Wise (Rs. In Lacs)					Recurring Cost/ Annum (Rs. In Lacs)
			I	II	III	IV	V	
1	01 nos. of Continuous Ambient Air Quality Monitoring Station at Mine office for the measurement of air quality for PM10, PM2.5, SO2, NOx and CO and real time data connectivity with CPCB/SRPCB server.	50	50	0	0	0	0	4
2	Emission Monitoring of air quality, water quality and Noise by NABL accredited laboratory on quarterly basis. (Rs.50000/- quarterly)	0	0	0	0	0	0	2
3	One water tanker for water sprinkling on haul roads.	35	35	0	0	0	0	5
4	Plantation 18667 saplings in existing plantation area to achieve density of 2500 per ha. Cost considered Rs.200/- per plant	37.33	37.33	0	0	0	0	2.24

5	To achieve the plantation in 7.5 mtr safety zone area by 30th Sept.' 2021, the shortfall area is 1.72 ha and gap plantation= 1.72ha X 2500 no./ha = 4300 nos. of saplings. Cost considered Rs.200/- per plant. However, if However if farmers are not willing to give their land then under mass plantation campaign from July to Sep 2021, we will distribute fruit bearing plants and facilitate for planting along the farm land on 7.5 m safety zone area which will serve the purpose as well as to increase the farmers income.	8.6	8.6	0	0	0	0	0.54
6	Proposal of construction of rainwater harvesting structures in forest area (within 10 KM radius). Location and size will be decided in discussion with DFO. This will be in place of vehicle proposed in wild life conservation plan.	25	25	0	0	0	0	2.5
7	Construction of garland drain for the additional two nos. of dump area along with, settling tank, etc. in mine area)	10	0	0	5	0	5	1
<b>Total</b>		<b>165.93</b>	<b>155.93</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>17.28</b>

**Query No. 2:-**Revised cost of vehicles and cost of water conservation structures in the approved conservation plan.

**Reply:** -The cost of Rs.25 Lakh proposed in Wild life conservation plan for the purchase of Mobile van to spread the awareness is now as advice by the Hon'ble EAC members will be used for development of water conservation structure in the forest area falls within 10 KM radius of the project and will be implemented in consultation with DFO.

**Query No. 3:-**After verification of the KML file on Google Earth, the Committee is of the view that there was no safety zone plantation along the lease boundary. The project proponent needs to submit the status of the plantation as per the previous EC condition.

**Previous EC condition**” Plantation shall be raised in a 7.5m wide greenbelt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads, etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years”.

**Reply:** Planation status and plan is given as below.

- Total ML area is 299.20 ha.
- Present used area of ML is 45.63 ha.
- Required plantation in 33% of used ML area is 15.0579 ha.
- Total plantation up to Sept' 2020 is 44385 & total ha. 16.31.
- Considering the survival rate 49.81% the present plantation on land = 22108 numbers including plantation in 0.23 ha 7.5 mtr safety zone.
- With regard to maintain density of plantation of 2500 Nos./ha physically it should be 16.31 ha. X 2500 = 40775 nos. hence shortfall of plantation = 40775-22108 = 18667 nos. This will be completed by Sep, 2021.
- Total 7.5 m safety zone area is 1.95 ha, out of which 0.23 ha area has been planted and remaining 1.72 a will be completed by 30th Sept 2021 towards North East side of Pit and North West side of lease area. Total required nos of plantation = 1.72ha. X 2500 = 4300 nos. of plant. However, if farmers are not willing to give their land then under mass plantation campaign from July to Sep 2021, we will distribute fruit bearing plants and facilitate for planting along the farm land on 7.5 m safety zone area which will serve the purpose as well as to increase the farmers income.

4. The project proponent submitted that the mining lease was originally sanctioned in favour of J. K. Cement Works by State Govt. vide order no. F.9 (9) Khan/ Gr. IV/ 75 dated 23.07.1977 for an area of 299.20 Ha. The lease deed was registered on 09.05.1978 for a period of 20 years i.e 09.05.1978 – 08.05.1998. The commencement of mining operations was done on 07.05.1979. The first lease renewal was granted by State Govt. for a period of 20 Years vide order no.F-16(30) mines/group-2/1998 dated 10.11.2010 from 09.05.1998 to 08.05.2018. As per provisions of MMDR amendment act 2015 the date of expiry of lease period extended up to 31.03.2030 vide state Govt. Order no. AME/ Nima/CC-1/ML7/1997/ 2034 dated 27.02.2015.

5. The project proponent submitted that approval of Modification in Mining Plan along with Progressive Mine Closure Plan (PMCP) for the period 01.04.2018 to 31.03.2023 was approved by the Regional Controller of Mines, IBM, Ajmer vide letter No. 584 (4) (3) (1767)/ 2018-RCOM-AJM/ 16 on dated 03.01.2019 under

rule 17 (3) of MCR, 2016 for an area of 299.20 Ha. for the capacity of 2.40 Million TPA capacity.

6. The project proponent submitted that opencast fully mechanized with controlled blasting, wet drilling, excavation, loading and transportation will be carried out.

7. The project proponent submitted that existing water requirement is 50.0 KLD; after expansion - 80 KLD (Drinking & Domestic – 3.0 KLD, Dust Suppression- 55.0 KLD, Plantation- 12.0 KLD and HEMM Washing- 10.0 KLD). Drinking & Domestic water will be sourced from ground and rest of the water requirement will be met from rain water collected in Mine pit.

The project proponent submitted that the highest and lowest elevation is 438 AMSL and 427 AMSL respectively. Water table in summer stands about 367 AMSL at a depth of about 60 mtr from surface in pre monsoon whereas in post monsoon water table stands about 387 AMSL at a depth of about 40 mtr from surface. Present working depth of pit-1 is 390.7 AMSL and pit-2 at 401.9 AMSL. Ultimate pit level will be 374 AMSL at conceptual stage. Hence presently mine is not intersecting the ground water table but at conceptual stage it will intersect in post monsoon period. NOC for ground water withdrawal for existing cement plant at Nimbahera and Mangrol-Tilakhera limestone mine & Nimbahera – Ahirpura limestone mine has been obtained from the Office of Central Ground Water Authority, Ministry of Water Resources, River Development & Ganga Rejuvenation vide letter no. 21-4(34)/WR/CGWA/2005-907 dated 14.05.2018 for the water table intersecting and abstraction of ground water to the tune of 2,747m<sup>3</sup>/ day which is valid up to 13.05.2020. Renewal application for the same has been applied on 12.02.2020.

8. The project proponent submitted that required plantation in 33% of used ML area is 15.0579 ha. Total plantation up to Sept' 2020 is 44385 & total ha. 16.31. Considering the survival rate 49.81% the present plantation on land is 22108 numbers including plantation in 0.23 ha 7.5 mtr safety zone. To increase the density of plantation of 2500 Nos./ha, total required saplings will be 40775 nos (16.31 ha. X 2500), hence additional plantation of 18667 nos (40775-22108) will be completed by Sep, 2021. Total 7.5 m safety zone area is 1.95 ha, out of which 0.23 ha area has been planted and remaining 1.72 a will be completed by 30th Sept 2021. Total required nos of plantation will be 4300 nos (1.72ha. X 2500).

9. The project proponent submitted that there are 13 Reserved forests and 4 Protected forests present near the project site which are as follows:

S. No.	Particulars	Distance (Km)	Direction
		(from lease boundary)	
1.	Galundia Block RF	6.90	N
2.	GadwaraDharana Block RF	7.45	NE
3.	Tai Block RF	5.35	NE
4.	Mewasa RF	5.00	ENE
5.	Charliya RF	8.45	E
6.	Udpuria RF	8.35	ENE
7.	Kalkaliya R.F	10.90	WNW
8.	Machhlia R.F.	12.75	WNW
9.	Rajori R.F.	9.90	N
10.	Guda Ki Dhar Block -A R.F.	9.50	ENE
11.	Guda Ki Dhar Block -B R.F.	11.25	NE
12.	P.F.	10.00	E
13.	Pachhala Block R.F.	12.65	NE
14.	AlsigarhP.F.	11.25	W
15.	Bansaria Block P.F.	12.35	W
16.	Kotmagra R.F.	13.50	SW
17.	P.F.	12.40	E

**Source: Distances and direction are taken with respect to SOI Toposheet & Google Earth.**

10. The project proponent submitted that there are six Schedule -1 species found which are as follows:-

- (a.) Pavocristatus (Indian Peafowl),
- (b.) Pantherapadusfusca (Indian Leopard),
- (c.) Prionailurusrubiginosus (Rusty-Spotted Cat),
- (d.) Canis lupus pallipes (Indian Wolf),
- (e.) Varanusbengalensis (Indian Monitor Lizard) &
- (f.) Gyps indicus/Gyps bengalensis (Indian Vulture)

Combined Wildlife Conservation Plan for seven entities- which includes J.K. Cement Works Nimbahera, J.K. Cement Works Mangrol, Nimbahera-Ahirpura Limestone mine, Maliakhera Limestone mine, Karunda Limestone Mine Mangrol –Tilakhera Mine and Mangrol Limestone mine located in common Tehsil Nimbahera District, Rajasthan has been approved by the Principal Conservator of Forest, Udaipur and recommendations forwarded to Additional Chief Conservator of Forest Jaipur for formal sanction vide letter no. f 5()forest conservation/ Principal conservator of Forest/ 2020-21/ 5002 dated 24.09.2020 and same proposal has been forwarded to APCCF & CWLW, Jaipur on 15.10.2020 by DYCF, Jaipur.

11. The project proponent submitted that there is no Wildlife Sanctuary/ National Park/ Biosphere Reserve/ Wildlife Corridor existing as well as proposed within 15km radius of the project area, hence Eco-sensitive Zone (ESZ)/ NBWL is not applicable.

12. The project proponent submitted that the baseline data was collected during October to December, 2018. Public hearing was conducted on 28.02.2020 at 11:30 am in the premises of Rajiv Gandhi Seva Kendra Gram Panchayat Arnia Joshi, Tehsil- Nimbahera, District – Chittorgarh under the chairmanship of Mr. Mukesh Kumar Kalal, Additional District Collector, Chittorgarh and under the auspices of Mr. Sharad Saxena, Regional Officer, Rajasthan State Pollution Control Board, Chittorgarh for the proposed Expansion Project with Production Capacity of 1.6 MMTPA to 2.4 MMTPA of Tilakhera Limestone Mine.

13. The project proponent submitted that EMP Capital Cost is 165.93 Lacs and Recurring Cost is 17.28 Lacs.

14. The project proponent submitted that no litigation is pending against the lease area/ applicant of this lease area in any court of law.

15. The project proponent submitted the authenticated past production details vide letter no. SME/Nimba/Sangrak/7/1997/2020-21/34 dated 20.10.2020.

16. The project proponent submitted that existing project cost is 10.53 Crores and proposed is 18.72 Crores. Total project cost will be 29.25 Crores. Existing employment is 77 persons and after expansion, it will be 108 persons.

17. The proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. Based on the documents submitted and presentation given by project proponent and consultant, the Committee **recommended** the proposal for grant of Environmental Clearance (EC) of Mangrol Tilakhera Limestone Mine with expansion from 1.6 Million TPA [ROM] of Limestone to 2.4 Million TPA (ROM) Total Excavation (Limestone 1.80 Million TPA + Mineral Rejects-0.55 Million TPA + Interstitial clay-0.04 million TPA + Soil-0.01 Million TPA) in the mine lease area of 299.20 ha located at village Mangrol and Tilakhera, Tehsil Nimbahera, District Chittorgarh, Rajasthan by M/s. J.K. Cement Limited with following specific conditions:

- a) The project proponent shall submit an undertaking that gap plantation and peripheral plantation will be completed in balance 1.72 Ha by September 2021 using tall saplings of 5-6 feet as per the guidelines of the Ministry.
- b) The project proponent shall spend Rs. 25 Lakhs for creating water sources or water harvesting structures to benefit the wildlife.

- c) The project proponent shall review annually the efficacy of conservation plan and shall submit the progress report to Ministry as directed.
- d) PP shall establish the Environment Management Cell separately for the mine and engage sufficient number of qualified staff for the implementation of Environmental Clearance conditions and other statutory requirements.
- e) PP to ensure that the necessary EMP should be implemented and monitored properly to ensure better compliance of the said conservation measures.
- f) Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.

**2.6: Proposal for Terms of Reference (ToR) of Daroli Limestone Mine 2 with expansion in production capacity from 1.56 MTPA to 3.90 MTPA (Total Excavation 3.90 MTPA) with the mine lease area of 213.33 Ha (M.L. No. 64/79(old), (23/2001(Renewal) located at Village Manderiya, Bichiwara and Jaspura, Tehsil Vallabhnagar, District Udaipur, State Rajasthan of M/s Udaipur Cement Works Limited [Proposal No. IA/RJ/MIN/189616/2020; File No. J-11015/81/2020-IA-II(M)]-Terms of Reference**

The proposal of M/s Udaipur Cement Works is for Terms of Reference (ToR) of Daroli Limestone Mine 2 with expansion in production capacity from 1.56 MTPA to 3.90 MTPA (Total Excavation 3.90 MTPA) with the mine lease area of 213.33 Ha (M.L. No. 64/79(old), (23/2001(Renewal) located at Village Manderiya, Bichiwara and Jaspura, Tehsil Vallabhnagar, District Udaipur, State Rajasthan. Block no. D of mine lease area lies between 24°34'22.12" to 24°34'52.89" N latitudes and 73°55'17.29" to 73°56'02.26" E longitudes and Block no. E of mine lease area lies between 24°34'22.37" to 24°33'59.99" N latitudes and 73°56'02.52" to 73°56'3.91" E longitudes. The mine site falls in Survey of India Topo Sheet No. 45 H/14. According to BMTPC's vulnerability atlas, II edition, the area falls in a region of low damage risk zone, 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 more than 100 ha.

3. The project proponent applied for Terms of Reference for the expansion of Limestone from 1.56 MTPA to 3.90 MTPA on 23.12.2020. Environmental Clearance was granted under EIA Notification 2006 vide letter No. J-11015/453/2006- IA.II (M) on 05.01.2009 for limestone production capacity of 1.56 MTPA for captive use.

4. The proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. The Committee noted that the mine has not been in operation for about 12 years. The mine started its operation in 2016 and the Environmental Clearance was earlier obtained in 2009. The current approval of production capacity available with the project proponent is 1.56 MTPA. It has also been noted that during last 3 years since the operation has started, PP could not achieve 0.5 MTPA of excavation. The Environmental compliance related to plantation and wildlife conservation plan was grossly inadequate. The Committee is of the view that PP should achieve the current capacity and also should comply to all the EC conditions within 6 months and then apply afresh for expansion. This also allows them to test the EMP in place for full capacity excavation, which later on can be further upgraded when the expansion will be proposed. This also can give a shock load on the environment due to sudden jump from 1.56 MTPA to 3.90 MTPA. It is also advised to update the certified R.O compliance report accordingly. Therefore, the proposal is **returned in the present form** for compliance as above.

### **DAY-3(13 JANUARY,2021)**

#### **3.1: Proposal for Environmental Clearance (EC) for the Expansion of Noamundi Iron Ore Mine of M/s Tata Steel Limited with expansion from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA in the mine lease 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 1230.42 Ha located at Mahul, Balijore, Korta, Noamundi, Sarbil and Barabalijori villages, West Singhbhum District, Jharkhand[Proposal No. IA/JH/MIN/7094/2011; File No. J-11015/104/2011-IA.II(M)]-Environmental Clearance**

The Proposal of M/s Tata Steel Limited is for Environmental Clearance (EC) for the Expansion of Noamundi Iron Ore Mine with expansion from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA in the mine lease 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 1230.42 Ha located at Mahul, Balijore, Korta, Noamundi, Sarbil and Barabalijori villages, West Singhbhum District, Jharkhand. The mining lease area is a part of the Survey of India Topo-sheet No. 73 F/8 and 73 F/12. The site falls between latitude 22<sup>05</sup>' to 22<sup>10</sup>'N and longitude 85<sup>25</sup>' to 85<sup>35</sup>'E and falls in seismic Zone – II as per IS:1893 (Part-I): 2002.

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. The project proponent applied for Environmental Clearance on 29.12.2020 for expansion of Iron ore from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA.

3. The proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. The project proponent informed the Ministry vide e-mail dated 06.01.2021 enclosed the letter dated 01.01.2021, that M/s Tata Steel Limited would like to withdraw the application for Environmental Clearance due to an unforced error in selection of category of project (2b is not reflecting in the downloaded pdf) while uploading the information in the application form. PP submitted that a new application is being submitted online for the instant proposal. Therefore, the Committee **return the proposal in present form.**

**3.2: Proposal for Terms of Reference (ToR) of Daroli Limestone Mine 1 with production capacity from 1.64 MTPA to 4.10 MTPA with the mine lease area of 703.3051 ha (ML No. 186/08 (Renewal) & 02/88 (Old)) located at Village Daroli, Tehsil Vallabhnagar, District Udaipur, State Rajasthan by M/s Udaipur Cement Works Limited [Proposal No. IA/RJ/MIN/189318/2020; File No. J-11015/84/2020-IA-II(M)]-TOR**

The Proposal of M/s Udaipur Cement Works Limited is Terms of Reference (ToR) of Daroli Limestone Mine 1 with production capacity from 1.64 MTPA to 4.10 MTPA with the mine lease area of 703.3051 ha (ML No. 186/08 (Renewal) & 02/88 (Old)) located at Village Daroli, Tehsil Vallabhnagar, District Udaipur, Rajasthan state. The mining lease area is a part of the Survey of India Topo-sheet No. 45 H/14. The site falls between latitude 24°34'22.38" to 24°37'25.73" N and longitude 73°55'08.50" to 73°56'32.05" E/. The project falls under Seismic Zone – II.

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

3. The project proponent applied for Terms of Reference (ToR) for Expansion of production from 1.64 Million Tons Per Annum (MTPA) to 4.10 MTPA and Expansion of Crusher capacity by installing additional crusher (from 700 TPH to 2770 TPH) & Expansion of Material Transport System (Overland Belt Conveyor -OLBC) of 2770 TPH within lease area) with total M. L. Area 703.3051 Ha. Limestone after Expansion – 4.10 MTPA, Over Burden 0.43 MTPA, Total Excavation 4.53MTPA) was submitted on 23.12.2020.

4. The proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. After detailed deliberations made by the project proponent, the Committee noted that (i) proposal is for expansion from 1.64 MTPA to 4.10 MTPA of Limestone production for its captive mine. However, PP has not achieved yet the production level of 1.64 MTPA and is working still at 1 MTPA. (ii) There is a grossly inadequate compliance to EC conditions which are viz a viz (a) NOC for conversion of agricultural land to non-agricultural land and diversion of grazing land; (b) Safety zone plantation near village and between the habitation as well as water log pit; (c)

Plantation all along the barrier of water field pit is not visible, (iii) It was also observed that an airport runway is abating the mine lease area. (iv) National Highway – 76 is passing through the mine lease in East-West direction. (v) Jaspura marble and the present mine lease is not separated by the greenbelt. (vi) Encroachments have been observed in the mine lease area.

5. After detailed deliberations, the committee is of the view that PP should achieve the current EC capacity and then apply afresh for expansion with reply of above said shortcomings. Efficacy of EMP in place and give an undertaking stating that PP will comply to all the EC conditions within 6 months. Based on the current status, PP needs to obtain NOC from Airport Authority of India. Certified R.O. compliance report needs to be updated accordingly. Therefore, in view of the above, the proposal is **returned in the present form.**

**3.3: Proposal under the provision of Notification S.O. 1530 (E) dated 06.04.2018 for Terms of Reference (ToR) with production capacity of limestone of 5.1 MTPA, Marl 1.69 MTPA with existing crusher of 1000 TPH for Adityana Limestone and Marl Mine in the mining lease area 431.4534 Ha located at Villages Adityana and Ranavav, Taluka Ranavav, District Porbandar, State Gujarat by M/s. Saurashtra Cement Limited [Proposal No. IA/GJ/MIN/81075/2018; File No. J-11015/8/2019-IA-II(M)]-TOR**

The Proposal of M/s. Saurashtra Cement Limited is for Terms of Reference (ToR) under the provision of Notification S.O. 1530 (E) dated 06.04.2018 with production capacity of limestone of 5.1 MTPA, Marl 1.69 MTPA with existing crusher of 1000 TPH for Adityana Limestone and Marl Mine in the mining lease area 643.02 Ha located at Villages Adityana and Ranavav, Taluka Ranavav, District Porbandar, State Gujarat. The project proponent submitted that mining lease has been granted for mineral Limestone, Marl and Clay. Proposal is only for Limestone and Marl production. Project proponent has also submitted that they have done mining of clay in past nor the proposal will be for clay production in future. Both Limestone and Marl are major minerals. The mining lease area is a part of the Survey of India Topo-sheet No. 41G/10 (Restricted). The site falls between latitude 21°41'54.32" N to 21°45'0.40" N and longitude 69°40'33.22" E to 69°43'34.44" E and falls in seismic Zone – III as per IS: 1893 (Part-I): 2002.

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 submitted the application for Terms of Reference (ToR) under the provision of Notification S.O. 1530 (E) dated 06.04.2018 on Parivesh portal on 02.10.2018. Subsequently, Essential details were sought by MoEFCC on 02.11.2018, reply of same was submitted to MoEF&CC on 03.12.2018. The proposal

was earlier considered in 1<sup>st</sup> EAC Meeting held during January 22-23, 2019 wherein PP did not attend the meeting. Again, the proposal was considered in 21<sup>st</sup> EAC (non coal) meeting minutes during 23-25 September, 2020 wherein the committee observed that (i) The Barda Wildlife Sanctuary is in (close proximity) to the project site. The Eco-Sensitive Zone (ESZ) around the Barda Wildlife Sanctuary was declared on 28th April 2017. (ii) Mineral clay was not mentioned in the uploaded form-1 for excavation along with minerals limestone and marl. (iii) The project cost was not mentioned in the form 1. (iv) The mine was in operation since 1993-94 as per certified production details. The project proponent informed that the Environmental Clearance (EC) was obtained vide letter no. J-11015/22/2001.IA.II (M) dated 16.07.2003 and no EC existed before 2003. Hence, it attracts the Hon'ble Supreme Court judgement dated 2.08.2017 in the matter of common cause vs Union of India &Ors. W.P.(C) 114/2014 (v) As per specific condition (i) of previous EC, stating that "no mining shall be carried out 300 meter from the Jamuvanti cave as per GOI notification dated 03.05.1997. It shall be ensured that the protected monument shall not sustain any damage due to the mining operation". However as per the KML file, the clarification is required. (vi) The committee also observed that due to sensitivity of the wildlife sanctuary location, fresh study is to be carried out by the renowned conservation institute of the country illustrating the impact of the mining activities on the native flora and fauna alongwith remedial/management plan. The committee deferred the proposal due to few shortcomings. Additional Details Sought by MoEF&CC on 06.10.2020 was sought. Further the proposal was examined in Eco Sensitive Zone (ESZ) Division in the Ministry. Based on the inputs from ESZ division of the Ministry, a letter dated 08.12.2020 was sent to PP to clarify the extract of the letter which is as follows:

"Based on the coordinates (the Mining Lease Area falls between Latitude of 21°41'54.32"N to 21°45'0.40"N and Longitude of 69°40'33.22"E to 69°43'34.44"E ) and KML file provided by the project proponent in the proposal brief, as the GPS points are falling within 1 Km, hence, mining activity is prohibited as per Hon'ble Supreme Court order dated the 4th August, 2006 in the matter of T.N. GodavarmanThirumulpad Vs. UOI in W.P. (C) No. 202 of 1995 and dated the 21st April, 2014 in the matter of Goa Foundation Vs. UOI in W.P. (C) No. 435 of 2012".

Reply of the same was submitted on 23.12.2020 by PP which is given below. Now, the proposal is considered in 26<sup>th</sup>EAC meeting to be held on 11-13<sup>th</sup> January, 2021.

<b>ADS points</b>		<b>ADS Reply point wise</b>
<b>1.</b>	The Project proponent needs to submit the superimposed map showing the mining lease site as well as the area covered under the ESZ around Barda Wildlife	The superimposed map showing the mining lease site as well as the area covered under the ESZ around Barda Wildlife Sanctuary vide S.O.1365 (E) dated 28th April, 2017 has been

	Sanctuary vide S.O. 1365 (E) dated 28th April, 2017	submitted.
2.	The Project Proponent needs to submit the letter from the forest department stating “the mining lease area does not fall under ESZ”.	The Office of the Dy. Conservator of Forest, Porbandar Forest Department has issued a letter vide No. K/JMN/TE.7/784/2018-19 dated 30th January 2019 that Adityana Limestone, Marl and Clay mining lease area does not fall under Eco Sensitive Zone and is situated at a minimum distance of 190 meters from the boundary of Barda Wildlife Sanctuary and boundary of Barda Eco Sensitive Zone, the copy of the letter submitted to MoEF&CC with ADS Reply.
3.	The Project Proponent needs to submit the updated Form I, as clay is not mentioned in the submitted form-I. Since clay is the minor mineral, project proponent needs to submit the District Survey Report (DSR) as per Ministry’s notification S.O 3611 (E) dated 25th July, 2018	<ul style="list-style-type: none"> <li>➤ Environmental Clearance was granted by MoEF&amp;CC vide letter No J-11015/22/2001-IA.II (M) on 16th July 2003 for Adityana Limestone, Marl and Clay mine to expand production of limestone from 1.53 million TPA to 5.1 million TPA and Marl Production from 0.39 Million TPA to 1.69 Million TPA under the EIA notification 1994.</li> <li>➤ This project was applied as per MoEF&amp;CC Notification dated 06.04.2018 for Revalidation of existing EC granted on 16th July, 2003.</li> <li>➤ As per existing EC, Limestone production capacity is 5.1 million TPA and Marl production capacity is 1.69 million TPA.</li> <li>➤ Neither we have done mining of clay in past nor we have proposal for clay production in future. Our proposal is only for Limestone and Marl production.</li> <li>➤ Authenticated production details from the year 1993-94 till July 2020 vide letter No. BHUPO/M.L/AKD/2426 dated 30.09.2020 issued by the Office</li> </ul>

		of the Geologist, Commissioner of Geology & Mining, Porbandar wherein no clay mining has been done, a copy of the letter submitted to MoEF&CC with ADS Reply.
4.	The Project proponent needs to submit the clearly demarcated Part A and Part B of the mining lease area	<p>Order for splitting of mining lease area received from Government of Gujarat, Industries and Mines Department No. MCR-1576-(S-102)-8192-Chh New Sachivalaya, Gandhinagar dated 01.07.2020. As per the order State Govt. has amended the said lease in two parts with following conditions:</p> <p><b>Part-A:</b> Area up to 1 Km. from the boundary of Barda Wildlife Sanctuary (Part A - equal to 211.56666 ha with the following condition) - Any direct mining in this area (1 Km.) from the boundary of Barda wildlife Sanctuary shall remain in abeyance till the restrictions for not undertaking the mining up to 1 Km. from the boundary of Barda Wildlife Sanctuary as per the office Memorandum dated 08/08/2019 is not withdrawn/ amended by Ministry of Environment, Forest and climate change, Government of India or otherwise the said restrictions are not withdrawn or clarified by the Apex court.</p> <p><b>Part – B:</b> Area beyond 1 km boundary of Barda Wildlife Sanctuary. Part B comprises 431.4534 hectares wherein the lessee shall continue mining beyond 1 Km. from the boundary of the Barda Wildlife Sanctuary as per the modified mining plan, subject to the compliance and clearances of other provisions." Map showing clearly demarcated Part A and Part B of the mining lease area submitted to MoEF&amp;CC with ADS Reply.</p>
5	A fresh independent study is to be carried out by the renowned	SCL has approached to reputed institutes like (1) Indian Institute of

	<p>conservation institute of the country illustrating the impact of the mining activities on the native flora and fauna along with remedial /management plan</p>	<p>Forest Management, Bhopal, MP (2) Wildlife Institute of India, Dehradun, Uttarakhand (3) Forest Research Institute, Dehradun, Uttarakhand (4) Gujarat Ecological Education and Research Foundation, Gandhinagar (5) Bombay Natural History Society (BNHS) and (6) Gujarat Institute of Desert Ecology, Bhuj for conducting the impact study of the mining activities on the native flora and fauna along with remedial/management plan.</p> <p>The following institutes namely (1) Indian Institute of Forest Management, Bhopal, MP (2) Wildlife Institute of India, Dehradun, Uttarakhand have denied to carry out the study work for private agencies. The institutes like Forest Research Institute, Bombay Natural History Society (BNHS) have not shown any interest to carry out the impact study. The Correspondences with all institutes submitted to MoEF&amp;CC with ADS Reply.</p> <p>Saurashtra Cement Limited is in the process of awarding the impact study work to <i>Gujarat Institute of Desert Ecology, Bhuj</i>. The study will take approximately six month for the completion of the impact study, the report of the same will be submitted with EIA/EMP Report.</p>
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4. The project proponent submitted that mining lease has been granted for mineral Limestone, Marl and Clay. Proposal is only for Limestone and Marl production. Project proponent has also submitted that they have done mining of clay neither in past nor the proposal will be for clay production in future. Both Limestone and Marl are major minerals. Mining Lease for Mineral Limestone, Marl and Clay mine was sanctioned in favor of Sh. Nanjibhai Kalidas Mehta over an area of 2248 acres (approx. 909.75 ha) by the Former Govt. of Saurashtra, Deptt of Industry & Supply vide their Resolution no Ind./III/Q/6-7 dated 20.10.1956 for a period of 20 years w.e.f date of execution. The Lease deed was executed on 09.03.1957. Initial lease deed was for Limestone & Clay at the time of ML grant. The said mining lease was transferred in favor of M/s. Saurashtra Cement & Chemical Industries Limited

from Shri Nanjibhai Kalidas Mehta vide Government of Bombay, Industries & Co-operation Department vide Notification no. MNL 1558/125293-MNG dated 30.05.1958. The original Lease period expired on 19.10.1976. The first renewal of the mining lease was sanctioned for limestone in favor of M/s. Saurashtra Cement & Chemical Industries Limited over a reduced area of 1112.230 acres (450.25 ha) vide order No MCR-1576 (S-102)/8192/CHH dated 22.11.1976 for a period of 20 years w.e.f 20.10.1976. Lease deed was executed on 14.03.1977. The ML area once again changed to 1588 acres 38 guntas (643.02 ha) by adding area which was deleted at last occasion vide Govt of Gujarat letter no. MCR 1576(s-102) 1572/CHH dated 26.02.1979 and Supplementary lease deed was executed incorporating the amendment on 30.04.1979. The name of company was changed from M/s. Saurashtra Cement & Chemical Industries Limited to M/s. Saurashtra Cement Limited on 03.06.1994 under incorporation no 840. Second renewal application in Form "J" for mining lease was applied on 18.09.1995 for further a period of 20 years w.e.f 14.03.1997 (till 13/03/2017) in the name of M/s. Saurashtra Cement Limited. Lease extension is under deemed renewal clause as per Rule 24 A (6) of MCR 1960. Meanwhile, the mineral Marl has been added with limestone in name of M/s. Saurashtra Cement Limited vide State Govt. order dated 03.07.1996 & Supplementary Lease deed was executed on 06.09.1996. After the MMDR Act was amended w.e.f. 12.1.2015 where-under by virtue of Section 8-A (5), the period of mining lease for captive use stood statutorily extended to 31.03.2030. The State Government has also vide Order dated 24.10.2017, formally passed an order extending the lease under Section 8(A)(5) and in accordance with the MOEF office memorandum dated 8th August 2019. State Govt issued modified mining lease extension order dated 01st July 2020 provides that the company shall continue mining in Part-B which is an area beyond 01 km from the boundary of the Barda Wildlife Sanctuary, as below:

- **"Part-A:** Area up to 1 Km. from the boundary of Barda Wildlife Sanctuary (Part A - equal to 211.56666 hectares with the following condition) – Any direct mining in this area (1 Km.) from the boundary of Barda wildlife Sanctuary shall remain in abeyance till the restrictions for not undertaking the mining upto 1 Km. from the boundary of Barda Wildlife Sanctuary as per the office Memorandum dated 08/08/2019 is not withdrawn/ amended by Ministry of Environment, Forest and climate change, Government of India or otherwise the said restrictions are not withdrawn or clarified by the Apex court.
- **Part – B:** Area beyond 1 km boundary of Barda Wildlife Sanctuary. Part B comprises 431.4534 hectares wherein the lessee shall continue mining beyond 1 Km. from the boundary of the Barda Wildlife Sanctuary as per the modified mining plan, subject to the compliance and clearances of other provisions."

5. The project proponent submitted that mining plan with PMCP for the period 2016-17 to 2020 -21 was approved on 25.07.2016. Modified Mining Plan with PMCP for the period 2018 -19 to 2020-21 (effective from 01-09-2018) was approved on 11-09-2018. Modified Mining Plan with PMCP for the period 2019 -20 to 2020-21 (effective from 01-11-2019) was approved on 01-11-2019. Further mining plan with PMCP for the period 2021-22 to 2025-26 has been submitted.

6. The project proponent submitted that mining operations is being carried out by Opencast Mechanized method by forming systematic benches of 6.0 m height and width 12.0 m. Mining operation is being/will be carried out with deployment of surface miners upto 10 m & since marl is present below 10 m delth so excavators will be used below 10 m. Loading is being/will be done by excavator and wheel loader. Transportation of Raw material (Limestone & Marl) is being done by dumpers/tippers to the crusher.

7. The project proponent submitted that nearest village is Adityana which is adjacent to the mining lease in west direction. Nearest School is Shree BaravanNesPrathamikShala. (135 m in west side). Nearest highway is SH-95 adjacent to the mining lease area in west direction.

8. The project proponent submitted that the total water requirement for mining project is 286 KLD which will be met through harvested mine sump water.

9. The project proponent submitted that at present 60.11 ha area has been covered under greenbelt/plantation with (Neem, Desi babul, ashok, akasia, Eucalyptus, Arjan, Banyan tree, Kashid, Karambi, Gulmohar, Nilgiri, Badam, etc.) and fruit bearing species (Coconut, Mango, Chiku, Custard Apple, Pomegranate, etc.). At conceptual stage, total planted area will be around 132.43 ha with same plant species.).

10. The project proponent submitted that there is no forest area/protected area in the mining lease. Mining lease (Part A) is 190 m away from ESZ and boundary of the Barda Wildlife sanctuary. Mining lease (Part B) is beyond 1 km from the boundary of the Barda Wildlife sanctuary. The mining lease is outside the Barda Eco Sensitive Zone. Jambuvanti Cave is 20 m away from the eastern side boundary of the mining lease area.

11. The project proponent submitted that there is no schedule-1 species found within the lease hold area. The lease area (part-B) falls beyond the ESZ of the Barda wildlife sanctuary. The Barda wildlife sanctuary falls in 10 km study area. As per the final ESZ notification notified by MoEF&CC, New Delhi on 28th April 2017, Schedule 1 species are found in the study area like Peacock, Leopard, Wolf, etc. Wildlife conservation measures have been implemented for their conservation. Mining lease (Part A) is 190 m away from ESZ and boundary of the Barda Wildlife sanctuary.

Mining lease (Part B) is beyond 1 km from the boundary of the Barda Wildlife sanctuary.

12. The project proponent submitted that this project is being applied as per MoEF&CC Notification dated 06.04.2018 for Revalidation of existing EC (As it is the running mines, the environmental monitoring is being carried out as per condition given by MoEF&CC and results are well within the prescribed limits).

13. The project proponent submitted that Public Hearing was held on 09.11.2000 and EC was accorded by MoEF on 16.07.2003.

14. The project proponent submitted that this is an existing mine, operating since year 1960. Total Mining lease area is 643.02 ha which is Govt Land, hence R&R is not involved.

15. The project proponent submitted that one court case is pending under MMRD Act. Spl. Civil Application no.25064 of 2006 was filed to challenge the notification and letter no.211 of 2006 of Geology Science & Mines Dept, Porbandar wherein they have demanded to pay Royalty on marl @ Rs.20/-per MT which is effective from 1st April 2003 onwards. As per the order dt. 19.2.2008 of Justice Mr. C K Buch, in SCA no. 25064 of 2008 (which is one of group matter filed by Cement Industries) and court has partially stay granted and ordered to pay @Rs.12/- per MT in lieu of Rs.20/- per MT from 2003 onwards and accordingly, we are paying @ Rs. 12/- per MT. This order was subject to outcome of the SCA after final arguments. Matter is pending, the last date of listing was 15.04.2020 and the next date of hearing not fixed by court. Contingent liability for the same has already been provided in the books of accounts of the company.

16. The project proponent submitted that past production details has been authenticated by Department of Mines and Geology, Porbandar vide their letter no No./BhuPo/M.L/Akad/2425 dated 30.09.2020.

17. The project proponent submitted that an Affidavit that the mining would be done strictly in accordance with the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores before grant of ToR/EC has been submitted.

18. The project proponent submitted that this project has been applied as per MoEF&CC Notification dated 06.04.2018 for revalidation of existing EC. No change in scope (the production capacity, in mining methodology, in mining lease area and in water, power & manpower requirement), hence no capital investment involved. However, recurring expenditure related to mines operation are being incurred.Total

manpower requirement will be 181 persons at devised/targeted production capacity of the project.

19. The proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. After detailed deliberations, the Committee noted that Part A which is 211.56666 Ha is upto 1 Km. from the boundary of Barda Wildlife Sanctuary and Part B which is 431.4534 Ha is beyond 1 km. The Committee is of the view to restrict the mining only in 431.4534 Ha (Part B) as 211.56666 Ha (Part A) will be non-mining zone. It was also noted that there is non-compliance of specific condition of plantation mentioned in the earlier Environmental Clearance vide letter no. J-11015/22/2001-IA.II (M) on 16.07.2003.

20. Based on the documents submitted and presentation made by the project proponent and consultant, the Committee **recommended** the proposal for grant of Terms of Reference (ToR) without Public Hearing under the provision of Notification S.O. 1530 (E) dated 06.04.2018 for Adityana Limestone and Marl Mine with Limestone production capacity of 5.1 MTPA and Marl 1.69 MTPA with existing crusher of 1000 TPH in the mining lease area of 431.4534 Ha (Part B only), Part A will be non-mining zone located at Villages Adityana and Ranavav, Taluka Ranavav, District Porbandar, State Gujarat by M/s. Saurashtra Cement Limited in addition to the following specific points:

- a) The project proponent should take up gap plantation and peripheral plantation using 'tall'(6 ft) saplings within 6 months. Progress of this compliance will be reviewed at the time of EC appraisal.
- b) The project proponent must submit wildlife conservation plan stating the ecological development in Part A of the mine lease area. What activities can be introduced except mining to strengthen the ecology of Part A (non-mining zone) must be given along with the EIA/EMP report.
- c) The project proponent shall carry out plantation in Part A with spacing of 2m x 2m. The project proponent should ensure that viable percentage should not be less than 75%.
- d) The project proponent shall address in EIA/EMP report, the concerns expressed by the people in earlier public hearing in the form of action taken report with clarity on capital expenditure conducted so far as well as recurring in the area of education, infrastructure, pollution control and health. PP should also address the public views generated as part of EIA report and EMP equivalent to the cost of CER towards capital expenditure in order to address the public concerns.

- e) The project proponent shall continue excavation upto 10 m by surface miners and below 10 m, excavators will be used for mining without blasting and drilling activities.

**3.4: Proposal for Terms of Reference (ToR) under the provision of Notification S.O. 1530 (E) dated 06.04.2018 for Lakheri Limestone Mine with production capacity of 1.5 MTPA and waste / topsoil 11.25 Lakhs CuM per annum (Maximum) with existing Wobbler and screening plant of 400 TPH in the mine lease area 1516.88 Ha located at Villages Gendoli Kala, GendoliKhurdh, Pholai, Gutha, Mahuwa, Dangaheri, Budel, Kankra, Chamavali, Uttarana, Lakheri, Sakhoda, Nayagaon&Papadi, Tehsilndergarh, District Bundi, State Rajasthan by M/s ACC Limited [Proposal No. IA/RJ/MIN/81291/2018; File No. J-11015/167/2018-IA.II(M)]**

The proposal of M/s ACC Limited is for Lakheri Limestone Mine (Area: 1516.88 Ha.) with Limestone production capacity of 1.5 Million TPA and waste / topsoil 11.25 Lakhs CuM per annum (Maximum) with existing wobbler & screening plant of 400 TPH at Villages Gendoli Kala, GendoliKhurdh, Pholai, Gutha, Mahuwa, Dangaheri, Budel, Kankra, Chamavali, Uttarana, Lakheri, Sakhoda, Nayagaon&Papadi, Tehsilndergarh, DistrictBundi, State Rajasthan. The mining lease area falls under Survey of India Toposheet 45 O/14 & 54 C/2 between latitude N 25°31'54.6" to N 25°39'39" & longitude: E 75°56'46.4" to E 76°15'27.2". The mine site 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 S.No. 1, Project or Activity 1(a) – 3 for "Mining of Mineral" as the Mining lease area is more than 100 Ha.

3. The project proponent applied vide proposal no. IA/RJ/MIN/81291/2018 dated 04.10.2018. PP has applied in compliance of MoEF&CC Notification S.O. 1530 (E) dated 06.04.2018 for revalidation of existing Environmental Clearance vide letter no. J-11015/14/2003-IA.II(M) dated 26.12.2005 for limestone production capacity of 1.5 Million TPA under EIA Notification, 1994. The proposal was earlier considered in 38<sup>th</sup> EAC meeting for ToR held during November 15-16, 2018 wherein the proposal was deferred due to few shortcomings. Additional Details Sought by MoEF&CC on 09.01.2019 and Reply of ADS was submitted on 16.03.2020. The proposal was again considered in 20<sup>th</sup> EAC held during 19-21 August, 2020 wherein the Committee deferred the proposal as the forest area of 409.88 Ha falls under buffer zone of Ranthambore Tiger Reserve (RTR) for which NBWL has approved de-notification in its 45<sup>th</sup> standing committee meeting on 04.09.2017. However, de-notification not published/issued by the Ministry. Therefore, the comments may be sought from WL division and NTCA for issuance of the Terms of Reference, keeping the sensitivity involved, as the proposal is within the buffer zone of the Ranthambore Tiger Reserve. Additional Details Sought by MoEF&CC on 30.08.2020 and

05.09.2020 for which reply was submitted on 11.09.2020 and 06.10.2020 respectively.

The matter was examined in the Ministry and the Wildlife Division/NTCA. The Ministry has sent a letter to the Principal Secretary, Forest department, Govt. of Rajasthan, requesting to furnish the action taken report on the recommendations of Standing Committee of NBWL for further decision by the Ministry on the instant case. ATR/de-notification order awaited from State Govt.

4. The proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. After detailed deliberations, the Committee noticed that the forest area of 409.88 Ha falls under buffer zone of Ranthambore Tiger Reserve (RTR). The matter was examined in the Ministry and the Wildlife Division/NTCA. The Ministry sent a letter to the Forest department, Govt. of Rajasthan, requesting to furnish the action taken report on the recommendations of Standing Committee of NBWL for further decision by the Ministry on the instant case. ATR/de-notification order awaited from State Government. Therefore, The Committee **returned the proposal in present form** and is of the view to consider the proposal after receipt of ATR/de-notification order from the State Government of Rajasthan.

**3.5: Proposal for Terms of Reference (ToR) for the production of 4,60,000 m<sup>3</sup>/8,28,000 tons per annum of Sand/Morrum Mine over an area of 23.00 Ha located at Gata No. part of 431, (Block No. 11) at Village Kanwara, Tehsil Banda, District Banda, State Uttar Pradesh by M/s. Archisha Mines Private Limited [Proposal No. IA/UP/MIN/190575/2020; File No. IA-J-11015/1/2021-IA-II(M)]**

The Proposal of M/s. Archisha Mines Private Limited is Terms of Reference (ToR) for the production of 4,60,000 m<sup>3</sup>/8,28,000 tons per annum of Sand/Morrum Mine over an area of 23.00 Ha located at Gata No. part of 431, (Block No. 11) at Village Kanwara, Tehsil Banda, District Banda, State Uttar Pradesh. The mining lease area is a part of the Survey of India Topo-sheet No. 63 C/2, 63 C/6, 63 C/3 and 63 C/7. The site falls between latitude 25° 30' 35.34" N to 30' 54.06" N and longitude 80° 17' 13.97"E to 80° 17' 50.28" E and falls in seismic Zone – II as per IS: 1893 (Part-I) : 2002.

2. As per EIA Notification dated 14<sup>th</sup> September, 2006 as amended from time to time, the project falls under Category B.

3. The proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. Based on the documents submitted by the project proponent, it was noticed that the proposal does not qualify for the general condition. The project proponent submitted that they have applied under Category 'A' because the EC issued by SEIAA was revoked vide letter dated 30.11.2019 issued by SEIAA, Uttar Pradesh. Environmental Clearance for the above project was granted vide letter

dated 09.03.2019 by SEIAA, U.P. In the SEIAA meeting held on 22.11.2019 due to formation of cluster, EC in question was kept in abeyance. SEIAA-UP exists as on 13.01.2021, as per the S.O. 3338 dated 16.10.2017 and 4087 dated 13.11.2020. Therefore, the Committee **returned the proposal in present form.**

**3.6: 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)]**

The proposal of Shri Anil Khirwal is for Environmental Clearance 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. The latitude is 22°09'19.145" N to 22°09'42.756" N and longitude 85°29'2.273" E to 80°29'26.624" E. The area falls in the Survey of India Topo-sheet no. 73F/8(OSM no. F 45 H/8) & 73F/12(OSM no.F 45 H/12).The entire mine lease area 19.331 ha is within BandhburuNaomundi Protected Forest. Out of this approval for diversion of 8.242 ha area has been obtained from Forest Department vide letter no.12(21)5/ 2002-FCE dated 3rd August, 2009. At present mining is being carried out in 8.242 ha area only and 11.089 ha is an unbroken area. The lease area is falls in elephant corridor hence exemption for elephant corridor has been taken from forest department on 15.03.2013.

2. As per EIA Notification dated 14<sup>th</sup> September, 2006 as amended from time to time, this mining project required to appraise at central level as the project or activity 1(a), Category A mining of minerals falling Jharkhand – Odisha interstate boundary and hence attracts the General Condition as per EIA Notification 2006.

3. The application for obtaining Environmental Clearance was submitted on 31<sup>st</sup> 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 proposal was considered in 26<sup>th</sup> EAC meeting held during 11-13<sup>th</sup> January, 2021. During the presentation, the project proponent and the consultant was unable to show the latest certified EC compliance report, public hearing

concerns and action plan prepared in compliance to public hearing concerns, when asked by the Committee members. Issue related to forest Saranda was not clarified. The Committee noted that the presentation was inadequately made and was not complete and the members were not satisfied. Therefore, the Committee **deferred** the proposal due to want of following information:

- a) PP needs to submit documents related to Saranda forest and also explain properly during the EAC meeting.
- b) The project proponent needs to submit the latest certified EC compliance report and present during the next EAC meeting.
- c) The project proponent needs to submit the proposed compliance of public hearing concerns and present the public hearing minutes during the next EAC meeting with a road map of public concerns with budgetry provisions.
- d) The EMP budget addressing both capital and recurring expenditure to be modified and submitted.
- e) The project proponent needs to submit the earlier ToR compliance report and present during the next EAC meeting.

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

S.No.	Member Name	Member Address	Designation	11 <sup>th</sup> Jan., 2021	12 <sup>th</sup> Jan., 2021	13 <sup>th</sup> Jan., 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	No	No	No
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra	Member	Yes	Yes	Yes

		Pradesh				
4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member	Yes	Yes	Yes
5	Shri Santosh Gupta	Flat No. 405, Block –B, Gaur Green Vista, NyayKhand -1, Indrapuram, Ghaziabad- 201014	Member	Yes	Yes	Yes
6	Dr. (Ms.) Asha Rajvanshi	Wildlife Institute of Inida, Chandrabani, Dehradun- 248001	Member	Yes	No	No
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	No	Yes	Yes
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	No	Yes	Yes
11	Prof. MukeshKhare	Department of Civil Engineering, IIT, Delhi	Member	Yes	Yes	Yes

12	Mr. V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	Yes	Yes	No
13	Sh. Pankaj Kulakshethra	Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	Yes	Yes	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 ParyawaranBhawan, MoEF&CC, Jorbhag, New Delhi- 110003	Member Secretary	Yes	Yes	Yes

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