

**Minutes of 35<sup>th</sup> meeting of Expert Appraisal Committee for the proposal involving violation of EIA Notification, 2006 held on 6<sup>th</sup> - 7<sup>th</sup> August, 2020**

**Following members were present in the meeting:**

- (i) Dr. Satish R Wate - Chairman
- (ii) Dr. G.V. Subrahmanyam - Member
- (iii) Dr. A.L. Ramanathan - Member
- (iv) Shri K Gowarappan - Member
- (v) Dr. Dilip S. Ramteke - Member
- (vi) Dr. Poonam Kumria - Member
- (vii) Dr. Bharat Jain - Member
- (viii) Dr. Subrata Maity - Member
- (ix) Shri Ashok Agrawal – Member
- (x) Shri Anil Kumar Jha - Member
- (xi) Shri Raghu Kumar Kodali - Member Secretary

Dr. Ramana Murthy could not join the meeting.

**Day 1: 06<sup>th</sup> August, 2020**

**35.1.** Opening remarks of the Chairman

**35.2.** Confirmation of the minutes of the 34<sup>th</sup> meeting held on 4<sup>th</sup> June, 2020 through Video Conferencing

**35.3** Proposal for consideration

**35.3.1 Integrated Steel Plant for achieving 3.0 MTPA Crude Steel production [Coke Oven (HRT): 2× 0.5 MTPA, Sinter Plant: 2×105 m<sup>2</sup> (2.744 MTPA), Pellet Plant: 2.2 MTPA, Blast Furnace: 3 nos (1×1050 m<sup>3</sup>, 1×350 m<sup>3</sup>, 1×1700 m<sup>3</sup>) : (3.0 MTPA), SMS: 4×60 T BOF, 4×T LRF, (2×5)+(2×4) Strand, Billet caster: (Pig Casting: 0.35 MTPA, Rebar Mill: 1.9 MTPA & Wire Rod Mill:0.5 MTPA), DI Pipe: 0.4 MTPA, Oxygen Plant(2nos): 1990 MTPA, Power Plant: 2× 60 MW, 1×40 MW, (3× 130 TPH CFBC, 4×75 TPH WHRB), Lime Plant: (1× 600 TPD)+ (1× 800 TPD) & Dolo Plant: 150 TPD]by M/s. Electrosteel Steels Limited located at Village Siyaljori, Bhagabandh, Budhibinor, Alkusha, Dhandabar, Bandhdih, Hutupathar, District- Bokaro, Jharkhand-Terms of Reference – regarding**

**[File No: J-11011/137/2006-IA.II(I); Online proposal no: IA/JH/IND/128567/2019] –.**

M/s **Electrosteel Steels Limited** has made application vide online proposal no. IA/JH/IND/128567/2019 dated 03/03/2020 along with the application in prescribed format (Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No. 3(a) Metallurgical industries (ferrous & non-ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

**Background**

The aforesaid project was originally accorded Environment Clearance (EC) by MoEF&CC vide letter no. J-11011/137/2006-IA.II(I) dated 21/02/2008 for setting up of Integrated Steel Plant (3 MTPA) at Parbatpur, Jharkhand under the provisions of Environment Impact Assessment (EIA) Notification, 2006.

Jharkhand State Pollution Control Board (JSPCB) vide letter dated 18/05/2012 informed the Ministry the following with respect to the EC accorded to M/s ESL:

*Company was carrying out the construction activities in Bhagabandhmouza of Chas block of Bokaro District instead of Parbatpur in the Chandankaniyari block of Bokaro district; and Construction activity was also being carried out on notified forest land as well as on land which is recorded as jungle-jhar in the revenue records.*

MoEF&CC issued Show Cause Notice (SCN) under section 5 of the Environment (Protection) Act, 1986 to M/s. ESL on 6/6/2012, prima facie based on the aforementioned JSPCB report stating that why the EC dated 21/02/2008 should not be revoked. In response to this, M/s ESL submitted the reply on 20/6/2012.

The NCLT, vide its order dated April 17, 2018 under Section 31(1) of the IBC, approved the 'Resolution Plan' submitted by the Vedanta Limited for ESL vide its Order dated August 10, 2018. Consequent to the above, Vedanta Limited has acquired 90% equity shareholding in ESL with effective date of June 4, 2018 and also re-constituted the board of directors of ESL

Meanwhile, JSPCB had not accorded Consent to Operate (CTO) renewal to M/s ESL. M/s ESL filed a Writ Petition No. 1873 of 2018 before the Hon'ble High Court for non- grant of CTO by JSPCB. In this matter, the Hon'ble Court of Jharkhand vide order dated 25/08/2018 passed the certain following directions to MoEF&CC which are reproduced as below:

So far as decision of the Ministry of Environment, Forest & Climate Change are concerned, considering the fact that the unit of the petitioner is a running unit and large number of employees are working in this unit of the petitioner, this court consider it appropriate that the issue regarding the environmental clearance of the petitioner should be decided at the earliest.

It is further observed that it is open to the petitioner to approach the Union of India with their proposal/ application for regularization of the alleged violation, without prejudice to their rights (including right, title, interest, possession and nature of property of the petitioner) and advance submissions before the respondent authority of Union of India pursuant to the show cause notice issued to them dated 6.6.2012 and the appropriate authority may, if possible, simultaneously consider the aforesaid application of the petitioner for regularization along with the show cause reply of the petitioner such that entire dispute is decided and the petitioner may also have a clarity about the fate of its unit . The decision which is to be taken by the Union of India be brought on record by either of the parties by filing supplementary affidavit latest by 25.09.2018.

- *It is made clear that this court has not gone into the merits of the claim of the petitioner and it will be open to the respondent no 3 i.e., MoEF&CC to take decision as per law.*

In pursuance to the Court order dated 25/08/2018, a personal hearing was held in the Ministry on 10/09/2018. Thereafter, **MoEF&CC vide order dated 20/09/2018 revoked**

**the EC dated 21/02/2008 under section 5 of Environment (Protection) Act, 1986 due to following blatant violation of environment norms.**

- As per the environmental clearance accorded, M/s ESL must establish the 3.0 MTPA ISP at Parbatpur in the Chandankiyari block of Bokaro district whereas M/s ESL has established and operating Integrated Steel Plant at Bhagabandhmouza of Chas block of Bokaro District without the prior approval of MoEF&CC. Hence, M/s. ESL has violated the general condition no. ii of the EC dated 21/02/2008 and also violated the provisions of the EIA Notification, 2006. Further, as per the Google Earth image, the steel plant is located approximately 5.3 km from the above original co-ordinate i.e., 23°40' N & 86 ° 20' E as mentioned in the EIA report. Such, shift in project location will be deemed to be a new proposal and mandates fresh appraisal as per the procedure prescribed under EIA Notification, 2006.
- M/s ESL has encroached upon 220.88 acres of protected Forest land located in the 4 villages Bhagabandh, Silajori, Hutupathar and Bandhdih without prior of the Competent Authorities concerned. The Company has not so far applied for diversion of notified forest land for non-forestry purpose. Thus, M/s ESL has violated the provisions of Indian (Forest) Act, 1927 and Forest (Conservation) Act, 1980.
- M/s ESL has encroached upon 142.90 acres of pure Govt. land in Chas circle and 120.65 acres of Govt. land in Chandakyari circle apart from the encroachment of Forest land.
- M/s ESL is yet to comply with the several environmental clearance conditions inter-alia including fugitive dust control measures, green belt development, utilization/disposal of fly ash, rain water harvesting, and non-adherence to the recommendations of EIA/EMP etc. Further, M/s ESL has acquired 2667.51 acres beyond 1350 acres stipulated in the environmental clearance.

Subsequently, project proponent has filed a Writ Petition No. 4850 of 2018 in the Hon'ble High Court of Jharkhand requesting for the stay of Ministry's revocation order dated 20/09/2018. The Hon'ble High Court stayed the operation, implementation and execution of the revocation order dated 20/09/2018 since 27/09/2018 and the unit is continuing the operation till date based on the interim relief given by the Hon'ble High Court from time to time.

The matter was last listed before the Hon'ble Court on 19/06/2020 wherein the Hon'ble Court has taken note of the affidavit of MoEF&CC stating that application of M/s. Electrosteel Steels Limited, made vide online proposal no. IA/JH/IND/128567/2019 dated 03/03/2020 would be placed before the Expert Appraisal Committee (EAC) of Violation sector for consideration on merit.

In compliance to the Order mentioned above, file/proposal was sent to Violation sector, IA division after approval of the Competent Authority to take appropriate action on the application submitted by M/s ESL vide proposal no. IA/JH/IND/128567/2019 dated 03/03/2020. Accordingly, the proposal is considered by the EAC (Violation sector).

Meanwhile, Forest Conservation Division of MoEF&CC has accorded Stage-I Forest Clearance ex-post facto approval on 17/12/2019 for diversion of 184.23 ha of forest land under the provisions of Forest Conservation Act, 1980.

**Above proposal of M/s ESL vide proposal no. IA/JH/IND/128567/2019 was considered by the EAC (violation) in the present meeting (35<sup>th</sup>). Project Proponent made the detailed presentation before the EAC and provided the following information:**

The Integrated Steel Plant of M/s Electrosteel Steels Limited is located at Villages Siyaljori, Bhagabandh, Budhibinor, Alkusha, Dhandabar, Bandhdih, Hutupathar, District-Bokaro, and Jharkhand.

The location details, co-ordinates of the plant boundary and land break up details are furnished as below:

Sl.No.	Name of Village	Taluka	District
1	SIYALJURI	CHANDANKYARI	BOKARO
2	BHAGABANDH	CHAS	BOKARO
3	ALKUSHA	CHAS	BOKARO
4	DHANDABAR	CHAS	BOKARO
5	BANDHDIH	CHAS	BOKARO
6	HUTUPATHAR	CHAS	BOKARO
7	BUDHIBINOR	CHAS	BOKARO

The coordinates of plant boundary are given below.

Point	Longitude/ Latitude
B1	86° 17' 10.618" E 23° 37' 34.882" N
B2	86° 17' 10.352" E 23° 37' 44.894" N
B3	86° 17' 4.271" E 23° 37' 58.620" N
B4	86° 17' 8.605" E 23° 38' 29.082" N
B5	86° 16' 41.656" E 23° 38' 56.873" N
B6	86° 16' 23.950" E 23° 38' 55.645" N
B7	86° 16' 32.227" E 23° 39' 4.181" N
B8	86° 15' 33.795" E 23° 39' 18.545" N
B9	86° 14' 45.169" E 23° 39' 47.631" N
B10	86° 14' 53.172" E 23° 39' 28.177" N
B11	86° 17' 22.459" E 23° 38' 30.192" N

B12	86° 17' 31.281" E 23° 38' 10.087" N
B13	86° 17' 28.669" E 23° 38' 20.592" N
B14	86° 18' 2.725" E 23° 38' 12.500" N
B15	86° 17' 49.001" E 23° 39' 1.750" N
B16	86° 18' 13.900" E 23° 39' 15.171" N
B17	86° 18' 6.096" E 23° 39' 51.492" N
B18	86° 18' 16.227" E 23° 39' 49.408" N
B19	86° 18' 33.998" E 23° 39' 10.234" N
B20	86° 18' 19.082" E 23° 38' 11.555" N
B21	86° 18' 44.458" E 23° 38' 6.667" N
B22	86° 18' 39.599" E 23° 37' 52.733" N

Land Utilization break up:

<b>Components /Units</b>	<b>Total Area in ha</b>	<b>Forest Area in ha</b>	<b>Non Fores t Area</b>
RMHS, Coke Oven & Power Plant Complex	67.66	56.91	10.75
Blast Furnace Area	11.67	9.15	2.52
Sinter & Calciner area	50.97	24.95	26.02
Office & Utility Complex	22.13	14.1	8.03
SMS Area	35.42	17.04	18.38
4-Lane Access Road	17.88	13.91	3.97
Old Road	63.08	9.26	53.82
Green Belt Area	105.99	38.91	67.09
<b>Total Land</b>	<b>374.81</b>	<b>184.23</b>	<b>190.58</b>

The proposed project is an Integrated Steel Plant. The following configurations is desired to complete the objective of the project in achieving 3.0 MTPA steel production; Coke Oven (HRT): 2× 0.5 MTPA, Sinter Plant: 2×105 m<sup>2</sup> (2.744 MTPA), Pellet Plant: 2.2 MTPA, Blast Furnace: 3 nos (1×1050 m<sup>3</sup>, 1×350 m<sup>3</sup>, 1×1700 m<sup>3</sup>) : (3.0 MTPA), SMS: 4×60 T BOF, 4×T LRF, (2×5)+(2×4) Strand, Billet caster: (Pig Casting: 0.35 MTPA, Rebar Mill: 1.9 MTPA & Wire Rod Mill:0.5 MTPA), DI Pipe: 0.4 MTPA, Oxygen Plant(2nos): 1990 MTPA, Power Plant: 2× 60 MW, 1×40 MW, (3× 130 TPH CFBC, 4×75 TPH WHRB), Lime Plant: (1× 600 TPD)+( 1× 800 TPD) & Dolo Plant: 150 TPD.

Raw material required for the proposed project Iron Ore, Iron Ore Fines, Imported Coal, Indian Coal, Dolomite, Lime Stone, Magnesium Powder, Quartzite, Coke Breeze, Coke, Pet Coke & Bentonite. Some of the raw materials are transported by road, rail & some are from plant itself as byproduct of some processes. The raw material requirement for the 3 MTPA ISP is given as below:

Unit wise Materials	Gross quantity, ton		Mode of receipt	Traffic of Rake/ Trucks
	Annual	Daily		Nos / Day
<b>SINTER PLANT</b>				
Iron Ore Fines	2,676,096	8,110	Rail	2.03
Dolomite	191,280	580	Rail	0.15
Limestone	106,270	325	Rail	0.08
Quartz Fines	28,412	86	Rail	0.02
Lime	78,470	238	In-plant	-
Coke Breeze	82,360	250	In-plant	-
Anthracite	74,650	226	Rail	0.06
<b>PELLET PLANT</b>				
Iron Ore Fines	2,158,236	6,540	Rail	1.64
Coal	68,330	207	Rail	0.05
Dolomite	100,905	306	Rail	0.08
Limestone Fines	100,905	306	Rail	0.08
<b>COKE OVEN</b>				
Coal Grade- 1	1,113,317	3,374	Rail	0.96
Coal Grade- 2	553,475	1,680	Rail	0.5
Coal Grade- 3	79,055	240	Rail	0.1
<b>BLAST FURNACE</b>				
Charge Pellet	1,743,287	5,285	In-plant	-
Charge Sinter	2,742,235	8,310	In-plant	-
PCI	516,650	1,570	Rail	0.45
Dolomite	42,900	130	Rail	0.03
Quartzite	109,900	335	Rail	0.08
Lump Ore	825,800	2,510	Rail	0.63
Hard Coke	1,781,100	5,400	In-plant	-
Nut Coke	93,900	290	In-plant	-
Limestone	14,800	45	Rail	0.01
Purchased Coke	110,000	334	Truck	17

The total water requirement for the project is being estimated at 1005 m<sup>3</sup>/hr and is drawn from Damodar River. WRD, Jharkhand has granted to withdraw 36.50 MCM water from the river Damodar vide letter No:2/PMC/WS/56/2007 Part I -416 dated 20/05/2010.

The total Power requirement is 218 MW. Out of which 160 MW will be generated from CPP & 58 MW will be procured from DVC. The total land is under the possession of M/s Electrosteel Steels Ltd. and is intended for Industrial use only. Out of the total Land of 374.81 Ha, 184.23 Ha is Forest land and rest 190.58 Ha is Non-Forest Land. The total Project Cost including the

Installed entities are estimated at Rs.19374 crores. The project will have direct and indirect impact on the employment of 10,000 persons, which will have a significant impact on local employment.

Name of the EIA consultant: M/s Ardra Consulting Services Pvt Ltd, Bhubaneswar [NABET/EIA/1922/IA0055].

### **Observation and recommendations of the EAC in the present meeting (35<sup>th</sup>)**

In compliance to the Order dated 19.06.2020 of Hon'ble High Court, Jharkhand, file/proposal was forwarded by the Industry 1sector to Violation sector, IA division after approval of the Competent Authority to take appropriate action on the application submitted by M/s ESL vide proposal no. IA/JH/IND/128567/2019 dated 03/03/2020. Accordingly, the proposal is considered by the EAC (Violation sector) in the present meeting.

EAC in the present deliberated on the information submitted to the Ministry (Form 1, PFR) and as presented before the committee and observed that Environmental Clearance to M/s ESL was accorded on 21/02/2008 to establish the 3.0 MTPA ISP at Parbatpur in the Chandankiyari block of Bokaro district whereas M/s. ESL has established and operating Integrated Steel Plant at Bhagabandh mouza of Chas block of Bokaro District and the steel plant is located approximately 5.3 km from the above original co-ordinate i.e., 23°40' N & 86 ° 20' E as mentioned in the EIA report without the prior approval of MoEF&CC.

EAC observed that M/s ESL has violated the general condition no. ii of the EC dated 21/02/2008 and also violated the provisions of the EIA Notification, 2006. EAC further observed that CTE was granted to the project by the Jharkhand State Pollution Control board on 05.05.2008 and construction work was started then, hence unit is in violation since 2008.

The EAC, after detailed deliberations appraised the instant proposal on merit and confirmed the case to be of violation of the EIA Notification, 2006 and **recommended** for issuing Standard Term of Reference, applicable to such project along with the following Specific Term of Reference for undertaking EIA and preparation of Environment Management Plan (EMP):

- i. The State Government/SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted EC.
- 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 (13) in the EIA report by the accredited consultants.
- vi. Budget of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage shall be completed within three years and to be prepared accordingly.
- vii. Economic benefit accrued during violation period with certification from concerned finance department
- viii. The PP is required to conduct public hearing as per EIA notification, 2006.
- ix. One-season fresh base line data (BLD) to be generated for preparation of EIA/EMP report. PP may use the data already collected BLD, subject to its validity of three years at the time of submission of EC application.
- x. The PP should also address the all the issues raised during public hearing along with commitments made and with fund provision to address above issues in tabular form to be submitted along with EIA/EMP report.
- xi. Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 1st May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
- xii. Site inspection report of Regional Office of the MoEF&CC inter-alia including land availability with project proponent along with break up, existence of process units/structures at the site along with adherence to the permissible environmental norms and green belt existence etc., shall be furnished
- xiii. CTO conditions compliance report from concerned region office of SPCB.
- xiv. Detailed land requirement plan showing earlier land details as per EC with all coordinates and also present land requirement showing forest land details with the all coordinates to be submitted.
- xv. Detailed Risk Assessment studies with modelling to be submitted in the EIA/EMP report.
- xvi. Water requirement, waste water generation, water balance and waste water treatment.



- xvii. Traffic density study to be carried out and impact prediction modelling to be submitted in the EIA/EMP report.
- xviii. Layout plan earmarking space for 33% greenbelt with in Industry, around the compound wall.
- xix. Details as per Annexure XI as mentioned in the agenda shall be submitted.
- xx. In the Environmental Management Plan Chapter (9) of the EIA report, summarised account of significant impacts as identified under each component of the environment and their corresponding mitigative measures along with budgetary requirements and timelines for effective implementation and monitoring.

**35.3.2 Surda Copper Mine for production of 0.9 million TPA (ROM) by M/s Hindustan Copper Ltd., located at village (s) - Surda, Sohada, Pathargora, Benashole villages and Forest Block No. 1098, Tehsil - Ghatsila, District - East Singhbhum, Jharkhand (MLA: 323.16 ha)– Further consideration for Environmental Clearance.**

**[Proposal No. IA/JH/MIN/145023/2020] [F.No. 11015/80/2012- IA.II (M)]**

The proposal of M/s Hindustan Copper limited is for production of 0.9 MillionTonne per annum (MTPA) of Copper Ore from – Surda Mine- (located at Survey Nos.100,101,102, 160 &1098, at Villages Surda, Sohada, Benasole, Pathargora, Forest Block, Tehsil Mosaboni, District East Singhbhum, State Jharkhand. The mining lease is located on Survey of India Topo-sheet no. 73 J/6 bounded between latitudes 22°32’42” N and 22°34’19” N and longitudes 86°25’41” E and 86°26’42” E.

The said project/activity is covered under Category 'A' [Sl.no. 1(a) of Schedule: “List of project or activities requiring prior environmental clearance”] of MoEF&CC. Highest production achieved is 400008 tonnes in 1989-90 and accordingly CTO of 4 Lakh Tonne per year was issued by JSPCB. Now 2018-19 onwards CTO for 317238 tonnes has been issued by JSPCB considering production for the year 1993-94 as base year.

**Details submitted by the Project Proponent:**

- 1. Number of minerals: Whether mineral is major or minor. Status of same mineral before 2006 (major or minor):** Major Mineral. Status of mineral before 2006 was also major mineral
- 2. Letter of Intent (LoI) / Mining Lease Details:**  
Letter from the Deputy Director of Mines and Geology, vide order no.517 (M) dated 18.03.2015 and the lease deed was executed for 5 years w.e.f 15.07.2017and is valid till 31.03.2020.
- 3. Whether the project is in the Critically Polluted Area(CPA):** *No*
- 4. Cost of the project:** Cost of the project: Rs. 3.2041 Crores is brought-down capital cost upto 1993-94, Rs. 5.6478 Crores capex incurred between 1993-94 to 2019 and Rs. 203 Crores will be spent on expansion Total Cost is Rs 211.8519 Crores

5. Employment generated/to be generated: 1600
6. Benefits of the project:
  - Utilization of India's scarce copper ore resources reducing imports.
  - Under expansion modern machinery with lower specific fuel consumption will be deployed
  - HCL will continue plantation of native tree species
  - HCL will construct amenities for local people
  - HCL will contribute towards skill development of local villagers.
  - Continued employment for ~1500 people in a predominantly tribal area.
  - Indirect employment for ~4000 people
7. Whether expansion project. If expansion: Applying for EC for First Time
8. If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006. No
9. No. and Date of the ToR /and revised ToR, if any, letter issued by the MoEF (if this is a case for EC): J-11015/80/2012-IA. II(M) dated 21-02-2020
10. No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration? If so, what specific reconsideration(s) being sought by the proponent): *Applying for EC for First Time*
11. If the project was considered in EAC, Pl. give dates of the meeting(s):
  - 19-20, Sept., 2016 (by EAC-Non coal Mining)*
  - 04-02-2020 (for ToR) by EAC - Violation*
  - 28-02-2020 by EAC – Violation*
  - 23-04-2020 by EAC – Violation*
  - 04-06-2020 by EAC-Violation*
12. Type of Mine:(Opencast/Underground/mixed): *Underground*
13. Capacity of the mine applied for: *900,000 tonnes per year of copper ore*
14. ML Area
  - (i) As per block allotment: 388.68 ha (As per directive of MoEFCC the lease area considered for EC is 323.16 ha)
  - (ii) As per approved mine plan: 388.68 ha (As per directive of MoEFCC the lease area considered for EC is 323.16 ha)
15. Date of approval of mine plan, mine closure plan, status & date: Mining Plan for further period of 5 years from 1.04.2020 has been provisionally approved by IBM letter No. RAN/ ESB/Cu/MP-36/2019-20 dated 02.04.2020
16. Date of Board's approval: ML. *Granted in 1939. Project in operation since 1956. Expansion project for Surda Approved by HCL's Board on 14-09-2010.*

17. Date of Ground water clearance and surface water approval.: *13-07-2013 from CGWA*
18. Existing Ground water level in (M): *12 – 16 m below ground level*
19. Date of mine closure approval. *PCMP approved along with Mining Plan on 02.04.2020*
20. Any river / Nallah flowing near or adjacent to the proposed mine. If yes, please give details.

*Surda Mine Lease is drained by mainly by two streams. The northern and central parts are drained by seasonal drainage channels originating from springs in ML which form the GharadubaNala. The southern part of the ML is drained by the Surda Nala. These perennial streams flow towards the south-east / east to meet each other about 2 km east of the lease's south-eastern corner before draining into the Subarnarekha River ~0.5 km further east. Another perennial stream, the KankuramNala, flows from the south-west towards the north-east just beyond the lease's northern boundary to join the Subarnarekha River about 2.5 km north-north-east of Surda Mine Lease. A small area in the north-western corner of the lease drains into the Kankuramnala.*

21. Details of mine lease: -

1. Date of entering into original leasedeed. <i>16-6-1939</i>	1. Date of 1 <sup>st</sup> lease Renewal: <i>16-6-1984</i>	1.Date of 2 <sup>nd</sup> lease Renewal: <i>16-6-2004</i>	1.Dateof 3 <sup>rd</sup> lease renewal
2.Date of expiry of original lease deed: <i>15-6-1984</i>	2. Whether renewal or deemed renewal: <i>Renewal</i>	2.Whether renewal or deemed renewal <i>Renewal</i>	2.....
	3.Date of expiry of 1 <sup>st</sup> lease renewal/deemed renewal: <i>15-6-2004</i>	3.Date of expiry of 2 <sup>nd</sup> lease renewal/ Deemed renewal: <i>31-03-2020</i>	3.....
			[ALSO FOR SUBSEQUENT RENEWALS.....]

22. Geological Reserve:

- (i) Total geological reserve: *28.57 Million Tonnes*
- (ii) Extractable reserve: *20 Million Tonnes*
- (iv)Percent (%) of extraction: *70%*
- (v) Range of ground water level: *12 – 16 m below ground level*
- (vi)Total estimated water requirement: *2740 m<sup>3</sup>/day industrial water + 160 m<sup>3</sup>/day potable water*
- (vii) Details of intersecting groundwater level: *Ground water table intersected. Expected that 500 m<sup>3</sup>/day will seep into expanded mine.*

23. Details of Deposits:

- (i) Depth of ore body: *Ore body is dipping at an angle of 35° towards NE.*
- (ii) Grade of ore: *1.04% Cu*

24. Method of mining: *Underground mining by Horizontal Cut & Fill, Room & Pillar and*

*Post Pillar Methods*

25. Life of mine: *30 Years*
26. Whether ambient air quality seasonal data has been monitored. If so, from which season to which season and whether the results are within the prescribed limits.

*Original EIA Report prepared on the basis of Baseline Environmental Data generated during Post Monsoon Season, 2012 and Post Monsoon Season, 2014. Present EIA Report prepared also on basis of baseline environmental data being monitored during Jan- Feb. – March, 2020. A few values of PM10 exceed the maximum permissible value but at locations well away from the activities of Surda Mine*

27. Whether the monitoring report of earlier EC from MoEF Regional Office has been obtained, in case the proposal is for expansion.: *Not Applicable as applying for EC for 1<sup>st</sup> time.*

28. Details of O.B.: *Not Applicable as mine is an underground mine.*

- (i) External OB dumps: *One external waste rock dump created during early 1950s*
- (ii) No of OB dumps: *As above*
- (iii) Area of each dump :*5.49 ha*
- (iv) Height of each dump: *~5 m*
- (v) Quantity (in MCm) of OB in each dump: *~0.14 MCM*
- (vi) Year of backfilling: *Not Applicable*
- (vii) No. of OB dumps reclaimed: *One*
- (viii) If garland drains and settlement facility for runoff created: *External dump reclaimed during late 1950s / early 1960s*
- (ix) Whether run offwaterbeing utilized: *No.*

29. Details of Internal Dumps: *None as project is an underground mine*

30. Utilization potential of wastes

- (i) Within the mines: *100% (all waste rock is utilised for stowing in underground voids)*
- (ii) Outside mines: *Not Applicable*

31. Details of final Mine Voids

- (i) Area: *Project is underground mine with stowing*
- (ii) Depth: *600 m*

32. Details of Quarry:

- (i) Total quarry area: *Not Applicable as project is underground mine*
- (ii) Greenbelt created in ha.: *18.79 ha*

33. Details of Land usage

**LANDUSEDETAILS**

- (i) **Pre-mining**

No.	Land Use	Within ML Area (ha)	OutsideMLArea (ha)	Total
1.	Agriculture land	111.048	0	111.048
2.	Forest land	83.51	0	83.51
3.	Wasteland	0	0	0
4.	GrazingLand	118.404	0	118.404
5.	Surface water bodies	3.504	0	3.504
6.	Settlements	3.165	0	3.165
7.	Other (Roads)	3.529	0	3.529
	<b>TOTAL</b>	323.16	0	323.16

(ii) **Post- Mining**

Sl.No	Description	Land use				Total
		Plantation	Water Body	Public use	Undisturbed area	
1	External Waste dump	5.49	Nil	Nil	Nil	5.49
2	Top soil storage area	2.94	Nil	Nil	Nil	2.94
3	Mineral storage area	4.85	Nil	Nil	Nil	4.85
4	Infrastructure (Adm. Building, workshop, magazine, township)	-	-	32.38	-	32.38
5	Green Belt	18.79	-	-	-	18.79
6	Roads	-	-	1.88	-	1.88
7	Undisturbed area	13.28	0	Nil	243.55 #	256.83
	Total	45.35	0	34.26	243.55 #	323.16
<p><i>Adm. Buildings, workshops, roads, township, magazine house etc. have been accounted for Public Use whereas magazine safety zone is accounted under "Undisturbed Area".</i></p> <p><i># Includes natural streams and Village pond which have been left "Undisturbed".</i></p>						

(iii) **Core area**

Existing land Utilisation and Land Utilisation at End of the Mine's Life

Sl.	Land Use	Existing (ha)	Conceptual (ha)
1.	Area for mine entry, excavation	2.52	2.52
2.	Area for new shaft (proposed)	Nil	10.76
3.	Old Waste dump (reclaimed)	5.49	5.49
4.	Area for top soil storage	2.94	2.94
5.	Mineral storage	4.85	4.85

6.	Infrastructure (Adm. Building, office, shaft portals, workshop etc.)	8.41	8.41
7.	Township	10.69	10.69
8.	Roads	1.88	1.88
9.	Greenbelt & Plantation ( <i>including 7.5 m along ML boundary 5.24km i.e. 3.501 ha</i> )	18.79	32.07
10.	Balance unused land	267.59	243.55
	<b>Total</b>	<b>323.16</b>	<b>323.16</b>

### 34. Details of Forest issues

- (i) Total forest area involved (in ha) for mining lease. 83.51 ha
- (ii) Total broken forest area.: *31.07 ha*
- (iii) Status of Forest Clearance and extend of forest land diverted in ha.:  
*Stage II FC Received.*
- (iv) Is there any National Park, eco-sensitive Zones, within 10 km radius? If so, give the details: *No*
- (v) Extent of forestland in the project (including safety zone and all types of forest land) (in ha): *Total Forest Land in ML Area – 83.51 ha. Forest Area Broken – 31.07 ha. Surface Extension of Underground extensions: 52.44 ha. Total diverted forest area is 83.51 ha.*
- (viii) Details of wildlife issues involved, if any. If so, whether WL management plan has been prepared;  
*No Biosphere Reserve, Wildlife Sanctuary, National Park, Ramsar Site, Tiger Reserve, Elephant Reserve, Elephant Corridor within 10 km of Surda Mine Lease*
- (ix) Whether Schedule-I species, if yes conservation plan is approved by CWLW?  
  
*Only Schedule I species found in Buffer Zone is Indian Python. Site Specific Wildlife Conservation Plan Prepared and submitted.*

### 35. Costs of the project:

- (i) Total capital Cost: *Rs. 5.6478 Crores capex incurred between 1993-94 to 2019 and Rs. 203 Crores will be spent on expansion Total Cost is Rs 211.8519 Crore*
- (ii) Cost of Production : *~Rs1457 per tonne*
- (iii) Sale Price: *Ore beneficiated and used in HCL's own copper smelter cum refinery*
- (iv) CSR cost: *CSR Budget for 2019 – 20 – Rs. 1.9773 Crores*
- (v) R&R Cost: *Not Applicable as no additional land acquisition / leasing*

### 36. Details of transportation of mineral

- (i) In pit: *Mine tubs*
- (ii) Surface to siding: *Mined ore raised to surface in skips / cages and loaded onto tipper trucks for transport to Copper Ore Concentrator Plant.*
- (iii) Siding to loading: *Not Applicable*

- (v) Quantity being transported by Road/Rail/conveyer /ropeway: *Presently ~3 lakh t transported by road.*
- (v) Proposed change in transportation means if any, give details: *No change*

37. Any court case pending. If so, please provide a list with details as annexure.

- (i). Environment(Protection) Act: Credible Action U/s 15 of the E(P) Act has been initiated and case has been filed in the Court of Chief Judicial Magistrate, Jamshedpur
- (ii). Air(P&CP) Act:
- (iii). Water (P&CP) Act: *None*
- (iv). MMRDA Act: *None*
- (v). The Factories Act: *None*
- (vi). Otherland R&R related cases: *None*

38. Give details of actual production vis-à-vis sanctioned capacity since the inception of mine in following format or since 1993-94 as applicable:

Year	EC sanctioned capacity(MTPA)	Actual Production (MTPA)	Less production beyond 1993 – 94 (MTPA)
<b>1993 – 94</b>		<b>0.317238</b>	<b>0</b>
1994 – 95		0.308494	0
1995 – 96		0.327096	0.009858
1996 – 97		0.318517	0.001279
1997 – 98		0.328717	0.011479
1998 – 99		0.287217	0
1999 - 2000		0.203364	0
2000 – 01	0 as the mine did not have EC. The highest annual copper ore production achieved prior to 1994 was 400,008 tonnes in 1989 - 90.	0.293997	0
2001 – 02		0.270429	0
2002 – 03		0.089281	0
2003 – 07		0 as Mining Suspended	0
2007 – 08		0.049466	0
2008 – 09		0.328168	0.010930
2009 – 10		0.387843	0.070605
2010 – 11		0.396841	0.079603
2011 – 12		0.395745	0.078507
2012 – 13		0.398537	0.081299
2013 – 14		0.398569	0.081331
2014 – 15		0.179036	0
2015 – 16		0.267251	0
2016 – 17		0.313856	0
2017 – 18		0.175391	0
2018 – 19		0.217524	0

39. Date and Place of public hearing: *15<sup>th</sup> Dec., 2015 at Vocational Training Centre of Surda Mine (within ML Area)*

40. The designation of officer presided over the PH: *Addl. District Magistrate, East Singhbhum District*
41. Name of the EIA consultant who prepared the EIA/EMP report.: MECON Ltd.
42. Whether the consultant has been accredited by the QCI and NABET as per the MoEF OM dated 2nd December, 2009.: Yes

### **Observation and recommendations of the earlier EAC meetings**

EAC deliberated on the information as presented and as submitted to the Ministry (Form 2, EIA/EMP report, PH details) in the 31<sup>st</sup> meeting held on 28.02.2020. EAC based on the information submitted by the PP noted that PP had undergone mining without prior environmental clearance. The committee deliberated on the project of Surda Copper Mine (0.9 million TPA) and observed that proposal was appraised in 2015 by the sectoral EAC for the expansion of project but EC was not issued for want of clarity on forest clearance. It was also observed by the sectoral EAC that project has been operating prior to 1993. Taking into consideration of 1993 -94 base level (3,17,238 tonnes), PP had gone for expansion during 1995-96 (3,27,096 tonnes) without seeking prior environmental clearance hence PP is in violation since 1995-96.

EAC after detailed deliberations on the proposal in the 31<sup>st</sup> meeting **deferred** the proposal for want of following information:

- i. Revised plan showing mining lease area reduced from 388.68 Ha to 323.16 Ha as FC Clearance available for 83.51 Ha out of 149.03 Ha of Forest land.
- ii. Status of credible action against violation.
- iii. Land requirement plan showing surface features along with Non forest land acquired, Forest Land already acquired and Forest land to be acquired;
- iv. Plantation details (Existing/Proposed) along with species to be used, capital and recurring expenditure with maintenance;
- v. Revised damage assessment to be calculated by considering the violation period from 1995-96 to 2018-19 for the excess quantity from the base year and qty as per SC judgement.
- vi. Fresh one-month baseline data as stipulated in the ToR to be incorporated in the revised EIA/EMP report. Comparison table should be made with earlier baseline data collected with fresh baseline data.
- vii. Greenbelt plan with plantation details of existing and proposed
- viii. Revised benefit accrued due to excess production during entire violation period from 1995-96 to 2018-19.
- ix. Revised capital cost with certification from concerned F&A department.
- x. Revised CER cost as per Ministry OM dated 01.05.2018 considering this project as green field project.
- xi. Copy of PH minutes to be uploaded in Form 2 application.
- xii. Revised EIA/EMP report to be submitted as some Typographical error observed in earlier report.
- xiii. Clarification for the BLD collection reported in EIA/EMP report for the month of March 2020

Project proponent submitted the above information online on 14.03.2020, as sought by the EAC in the 31<sup>st</sup> meeting held on 28.02.2020. Accordingly, proposal was considered by the EAC in the



32<sup>nd</sup> meeting held on 22<sup>nd</sup> - 23<sup>rd</sup> April, 2020. Project proponent made the detailed presentation on the additional information in the 32<sup>nd</sup> meeting. EAC deliberated on the information as presented and submitted by the PP. EAC observed that baseline environmental data generation has now been carried out by Env. Engg. Laboratory of M/s MECON for the period 06-02-2020 to 06-03-2020. Total Mining Lease Area of the project is 388.68 Ha having 149.03 ha of Forest land in it. Out of 149.03 Ha of FL, 83.51 Ha has been diverted whereas 65.52 Ha is yet to be diverted. PP apprised EAC that any u/g mining or any activities related to u/g mining shall not be carried out in the forest land within mining lease for which FC to be acquired. EAC noted that PP has submitted the land use plan of 323.16 ha (excluding the forest land for which FC to be obtained). EAC also noted that credible action against the PP u/s 19 of E(P) act 1986 has not been initiated.

EAC also made an observation that instant project is for the first time EC and therefore should not be considered as an expansion project as far as EC is concerned. Accordingly, title of the project may be modified. EAC in the 32<sup>nd</sup> meeting after detailed deliberation on the information submitted and as presented, **deferred** the project for want of following information:

- i. Lease renewal status after 31.03.2020
- ii. Details of Dumps and Stripping ratio not provided.
- iii. FC is co-terminus with Mining lease. Lease validity is over on 31.03.2020. Status of FC?
- iv. Surface Water bodies are missing in post mining land use details.
- v. Proposal submitted is for the first time environmental clearance, hence it cannot be considered as expansion project. Accordingly submit the EIA/EMP report with revised title.
- vi. Justification for cost taken for arriving damage assessment of air environment. Damage assessment shall be computed for the differential qty from the base year and base quantity in line with SC judgement. It is noted that EU 28 Hand book for ENV prices are considered in the assessment without giving due consideration for the Indian conditions and the costs. It is observed in the tables 13.8 to 13.12 that assessed values for PM 10 and other parameters like NOX does not represent a proper value as explained and hence all the damage costs for Air impact has to be reassessed besides for discounting to Indian conditions and considering health impacts separately as per Tata nagar study is superfluous, since EU 28 takes care of the same. Emission rates shall be rechecked.
- vii. Impacts due to partial provision of GB/plantation by not fulfilling 50% of the requirement and the deficiency shall be computed for damage.
- viii. Likewise Crop loss at 25% of the annual yield cost for specific impacted extent shall be reworked and likewise other parameters etc.
- ix. Table of AQIP with and without control measures shall be submitted.
- x. SW/GW: sourcing of GW without @500kld, Non provision of water structures like Garland drain, settling tanks and RWH deficiency which has to be provided as per CGWA NOC of 2018 besides water drawn from Subarnarekha river for the violation period shall be considered for damage costs and vis-à-vis remediation.

- xi. LU/LC/Ecology: A minimum of 32 ha of plantation, 9 ha of avenue plantation and 1,2 ha along water bodies should have been in place now and hence damage cost shall be computed accordingly.
- xii. Profit accrued during violation as per prorate shall be recomputed and 3 % profit added to damage cost in CRAP.
- xiii. No discount is permitted for the statutory costs incurred by the PP during this period.
- xiv. PP calculated the water environment (Surface Water) damages based on the prevailing water tax rates (Rs 2.0/m<sup>3</sup>) instead of CPCB guidelines. Revise the damages as per the CPCB rates and as suggested by EAC.
- xv. PP did not address damages to Land environment vis-à-vis top soil management and Noise environment. Revise the damage assessment for air quality by considering CMPDI emission rates
- xvi. Copy of credible action taken against the PP
- xvii. CER activities with year wise details
- xviii. Land requirement plan showing the mining lease area of the 323.16 Ha only (excluding the forest land for which FC to be obtained) with latitude and longitude.
- xix. NOC from state ground water department
- xx. CFO compliance report presentation before EAC to be made
- xxi. Capital cost of the project shall consider the brought down cost of 93/94 plus capex involved between 93/94 and 2019 plus expansion cost.

Project proponent submitted the above information online vide letter dated 21.05.2020, as sought by the EAC in the 32<sup>nd</sup> meeting. EAC examined the information submitted by the PP. in the 34<sup>th</sup> meeting held on 4<sup>th</sup> June, 2020.

EAC observed that PP has submitted letter dated 06.03.2020 from the mining department Jharkhand wherein it has been mentioned that lease renewal application is under consideration. PP apprised EAC that credible action has been initiated and complaint case has been filed by the State PCB, Jharkhand. EAC further observed that the PP in last meeting mentioned that they had spent Rs 26.09 crores towards Environment Management Measures but now they are mentioning Rs 1.492 crores, this is contradictory information.

EAC opined that the reply submitted by the PP is inadequate and lack clarity on mining lease renewal, renewal of diversion of forest land as Forest Clearance is co-terminus with Mining lease and amount spent on Environment Management Measures, post mining land use details particularly water bodies and Expenditure spent towards Environment measure cannot reduced from the damage cost and same was informed to PP in 32<sup>nd</sup> EAC meeting but PP has reduced the above expenditure in 34<sup>th</sup> EAC meeting also. It shows clearly careless approach of PP and EIA consultant in submission of ADS reply. EAC took it seriously and directed PP to submit clarification regarding submission of inadequate and improper reply to the Ministry.

EAC after detailed deliberation recommended to **defer** the project. EAC advised **PP to make a detailed presentation on the additional information** of the 32<sup>nd</sup> meeting including layout plan clearly demarcating the forest land (149.03Ha) already diverted (83.51 Ha) and yet to divert (65.52 Ha), revised damage cost as suggested by EAC during meeting, revised Post Mining land use plan along with the following additional information to the Ministry:

1. Letter of intent for the extension of mining lease to Project proponent.
2. Letter regarding renewal of Forest Clearance.
3. Provide water quality entering the stream from mines and also the ground water quality around the mine.
4. Detailed clarification regarding submission of inadequate and improper reply to the ministry apart from variance in different EIA' submitted to the ministry.

Project proponent submitted the above information online on 10.07.2020, as sought by the EAC in the 34<sup>th</sup> meeting held on 04.06.2020. Project proponent made the detailed presentation on the additional information in the present meeting (35<sup>th</sup>) and apprised EAC about the **layout plan clearly demarcating the forest land (149.03 ha) already diverted (83.51 ha) and yet to divert (65.52 ha), Revised damage cost, Revised Post Mining Land Use Plan and Water Quality Entering the Stream from Mining & also ground water quality around the mine etc.** Regarding Forest Clearance which is co-terminus with Mining lease, PP apprised EAC that Forest Department vide letter no. 1507 dated 15.06.2020, directed to submit document of lease extension for extension of FC as per extended period of Surda Mining Lease. HCL will be submitting the prescribed documents to the State Forest Department for Extension of FC

#### **Observation and recommendations in the present (35<sup>th</sup>) EAC meetings**

EAC deliberated on the information as presented and submitted by the PP. EAC observed that PP has submitted the letter dated 05.08.2020 from Secretary, Mines, Department of Mines and Geology, Govt. of Jharkhand regarding extension of mining lease validity. EAC further noted PP has submitted the total budgetary provision of Rs 4.8425 Crores for Remediation Plan, Natural and Community Resource Augmentation Plan. EAC deliberated on the damage cost assessed by the PP. EAC also deliberated on the activities proposed under the plans and advised PP that proposed activities should not be confined within mining lease area instead should be planned in the surrounding. EAC further advised PP to revise the cost of rain water harvesting structures under NRA and development of roads under CRA. EAC, therefore, in view of the aforesaid suggestion, advised PP to revise the damage cost and activities as suggested and to be presented before the EAC by tomorrow i.e on 07.08.2020.

PP in view of the above suggestions of the EAC, revised the cost for Remediation Plan, Natural Resource Augmentation Plan and Community Resource Augmentation Plan to Rs 570.71 Lakhs. EAC also noted that Credible Action U/s 15 of the E(P) Act has been initiated and case has been filed in the Court of Chief Judicial Magistrate, Jamshedpur. EAC after detailed deliberation on the information submitted by the PP (EIA/EMP report, PH issues, Form 2, Additional information, Annexures etc), **recommended** the proposal for grant of Environmental Clearance subject to the compliance of following Specific conditions in addition to all Standard conditions applicable for such projects:

- i. EAC recommended for an amount of Rs 570.71 Lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details are given below:

**Remediation Plan along with Cost:**

<b>Attributes</b>	<b>Activity Proposed</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Total in ₹ lakhs</b>
Air & Noise Environment	Providing medical equipment / instruments to Community Health Centre, Kendadih and Sub-Divisional, Hospital Ghatshila	5	5	2	12
	Construction of paved roads in Village Sohada.	7	7	4	18
<b>Total Air Environment</b>		<b>12</b>	<b>12</b>	<b>6</b>	<b>30</b>
Water Environment	Construction of check dam on nallas to ensure clarified water for downstream users to be selected in consultation with State administration.	3	3	1.5	7.5
<b>Total Water Environment</b>		<b>3</b>	<b>3</b>	<b>1.5</b>	<b>7.5</b>
Biological Environment	Plantation of locally growing variety of trees which provide fruits and other Non-Timber Forest Produce (NTFP) in consultation with District administration & local panchayats outside the ML area. ~45000 trees will be planted @ ₹ 500 per tree	100	80	45.85	225.85
	Free distribution of 25,000 saplings of locally growing fruit trees procured from State Forest Department @ ₹15 per sapling ( Rate charged by Jharkhand State Forest Dept.)	1.5	1.5	0.75	3.75
<b>Total Biological Environment</b>		<b>101.5</b>	<b>81.5</b>	<b>46.6</b>	<b>229.6</b>
<b>Total Fund For Remediation Measures</b>		<b>116.5</b>	<b>96.5</b>	<b>54.1</b>	<b>267.1</b>

**Natural Resource Augmentation Plan with the cost:**

Sl. No.	Activity Proposed	Year 1	Year 2	Year 3	Total (in ₹ lakhs)
1	Solar Drinking water structure (Bore well with Motor fitting) including Soak Pit for Water Recharging in villages Matiya&Boraghat /schools in consultation with local authorities.	3	3	2	8
2	Conversion of conventional drinking water structure in to solar Drinking water structures in villages Rakha& Surda	3	3		6
3	Rainwater Harvesting structures in nearby villages in consultation with district administration.	13	10	5	28
4	Solar Power system in 2 nos. Community Halls at Kendadih and Bhaduri villages	1	1	-	2
5	Increase in tree density of degraded forests equivalent to ~31500 trees outside ML area at cost of ₹ 500 per tree. Areas to be identified in consultation with concerned local Govt. officials.	60	60	37.32	157.32
6	Plantation of ~8000 trees in Forest Blanks outside ML Area at cost of ₹ 500 per tree in consultation with concerned local Government officials.	15	15	10	40
<b>Total Fund For Natural Resource Augmentation Plan</b>		<b>95</b>	<b>92</b>	<b>54.32</b>	<b>241.32</b>

**Community Resource Augmentation Plan with the cost:**

Sl. No.	Activity Proposed	Year 1	Year 2	Year 3	Total (in ₹ lakhs)
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1	Installation of Sanitary Napkin Vending Machines and Incinerators with maintenance for a period of 03 years. The napkins would be provided free of cost.	1	1	1	3
2	Providing Smart class/ digital support/ equipment / text-books for school library for supporting schools in line with the Vidya Bharti Model of the New Education Policy. The schools will be selected in consultation with local elected people's representatives and District Administration.	14	10	10	34
3	Construction of paved roads and conversion of unpaved roads to paved roads in nearby villages in consultation with local elected people's representatives and District Administration.	10.29	10	5	25.29
<b>Total fund for Community Resource Augmentation plan</b>		<b>25.29</b>	<b>21</b>	<b>16</b>	<b>62.29</b>

### Summary

Sl. No.	Plan	Total(in ₹ lakh)			
		Year-1	Year-2	Year-3	Total
1.	<b>Cost of Remediation Plan</b>	116.5	96.5	54.1	267.1
2.	<b>Natural Resources Augmentation Plan</b>	95	92	54.32	241.32
3.	<b>Community Resources Augmentation Plan</b>	25.29	21	16	62.29
<b>Total Fund</b>		<b>236.79</b>	<b>209.5</b>	<b>124.42</b>	<b>570.71</b>

- ii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. **570.71**lakhs. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. **570.71**lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.

- iii. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.
- iv. Fund allocation for Corporate Environment Responsibility (CER) of Rs. 368 lakhs/- to be implemented as per the details submitted to the Ministry and to be spent in three years.
- v. Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- vi. The Environmental Clearance will not be operational till such time the Project Proponent complies 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.
- vii. State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of 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.
- viii. Effective dust suppression system shall be adopted at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission.
- ix. Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- x. The mining lease holder shall, after ceasing mining operations, under take re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to condition which is fit for growth of fodder, flora and fauna etc.
- xi. Wildlife conservation plan for Schedule I species shall be implemented as approved by the Competent Authority.
- xii. Ecology & Biodiversity Conservation as included in the EIA/EMP should be strictly followed to mitigate the impacts as predicted in the EIA/EMP.

**35.3.3 Chasnalla Colliery including Washery of 1.2 MTPA normative/1.5 MTPA peak along with expansion of Coal Washery of 4.0 MTPA capacity in mine lease area of 230.88ha and OB handling at surface for backfilling of exhausted West Quarry of M/s Steel Authority of India Ltd located in village Chasnalla& Het Kandra, Tehsil Jharia-cum- Jorapokhar-cum-Sindri, District Dhanbad, Jharkhand – Further consideration for Terms of Reference.  
[F. No. J-11015/26/2019-IA.II(M)]**

**Details submitted by the Project Proponent**

1. The project involves manufacturing/extraction of Coal of production capacity (1.2 Nominal/ 1.5 MTPA peak including expansion of existing washery up 4.0MTPA) by M/s Steel Authority of India Ltd in an area of 230.88 hectare (Original 348.18 Ha) at Chasnalla Colliery, village Chasnalla& Het Kandra, Taluka/Mandal Jharia-cum-Jorapokhar - cum- Sindri, District Dhanbad (Jharkhand).
2. The said project/activity is covered under category A of item Coal Mining of the Schedule to the EIA Notification, 2006, and requires prior EC from the MoEF&CC/SEIAA based on the appraisal by Expert Appraisal Committee or the State Expert Appraisal Committee in different States/UTs.
3. Whether project attracts the General Condition specified in the Schedule of EIA Notification/ International boundary and distance from the project]: NO
4. River/ water body Damodar is flowing at a distance of about 500 meter in East direction.
5. Details of Forest issues, if any: No forest area
6. Details of Consent to Operate:
  - (i) Whether Consent to operate obtained (Yes/No)? If, Yes
  - (ii) Date of issue: 28.03.2017 (For Washery 01.10.2019)
  - (iii) Valid upto: 31.12.2017 (Applied for renewal) (For Washery 30.09.2020)
7. Mine Capacity in ROM (Run of Mine): Proposed 1.2 MTPA Nominal/ 1.5 MTPA Peak
8. Whether the proposal is mining of Minor minerals project (Yes/No)? No
9. Whether the proposal is mining of Major minerals project (Yes/No)? Yes
10. No. of Mineral to be Mined with name: 1. Coal
11. Details of mine lease: -
  - (i) Date of entering into original lease deed: 27.04.1938
  - (ii) Date of expiry of original lease deed: 26.04.2688
  - (iii) Date of 1<sup>st</sup> lease renewal: Application for revalidation submitted (Pending with state Govt. for want of EC)



12. Details of DGMS permission, if any: Permission of underground working obtained.

13. Details of past production of mine since its inception duly in tabular form: The year wise coal production from Chasnalla Colliery since 1993-94 onwards, is as under:

<b>Production data from 1990-91 up to 2019-20</b>			
<b>Year</b>	<b>Quantity in Metric Tonnes</b>	<b>Year</b>	<b>Quantity in Metric Tonnes</b>
1990-91	<b>303152</b>	2005-06	<b>325432</b>
1991-92	<b>353135</b>	2006-07	<b>289988</b>
1992-93	<b>363239</b>	2007-08	<b>664817</b>
1993-94	<b>318800</b>	2008-09	<b>630962</b>
1994-95	<b>382362</b>	2009-10	<b>822402</b>
1995-96	<b>430360</b>	2010-11	<b>770941</b>
1996-97	<b>383220</b>	2011-12	<b>383338</b>
1997-98	<b>364948</b>	2012-13	<b>527487</b>
1998-99	<b>384962</b>	2013-14	<b>484568</b>
1999-00	<b>360536</b>	2014-15	<b>329437</b>
2000-01	<b>328325</b>	2015-16	<b>497432</b>
2001-02	<b>412945</b>	2016-17	<b>480842</b>
2002-03	<b>413665</b>	2017-18	<b>323037</b>
2003-04	<b>324535</b>	2018-19	<b>353835</b>
2004-05	<b>362693</b>	2019-20	<b>229730</b>

14. Details of Violation (*Brief description of the project activity that leads to violation of EIA Notification,2006*):Chasnalla Mine is old & operational prior to nationalization but in year 2017, DMO, Dhanbad has issued a letter vide ref no. 1897/M dated 18.11.2017 for excess production during 2000-01 to 2016-17, benchmarking production year 1993-94.

15. The salient features of the project are given below

Project name	<p><b>Chasnalla Underground Coal Mining Project and OB handling at surface for backfilling of exhausted West Quarry.</b></p> <p>Expansion of production Chasnalla mine from existing 0.318 MTPA (1993-94 Base year production) to 1.5 MTPA along with expansion of existing coal washery up to 4.0 MTPA (present capacity of existing washery is 2.04 MTPA and expansion of 1.96 MTPA out of which 0.76 MTPA by the upgradation of existing washery and 1.2 MTPA through installation of proposed modular washery) within project area of 230.88 ha in the village Chasnalla &amp; Het Kendra in Dhanbad, Jharkhand</p> <p>OB handling at surface for backfilling of exhausted West Quarry.</p>
Project proponent	M/s Steel Authority of India Ltd
Block Allottees	<p>Chasnalla Colliery has been in operation prior to nationalization. There are two mouzas under Chasnalla Colliery viz. Chasnalla Mouza &amp; Het Kandra Mouza allotted to SAIL.</p> <p>Proposed Project Area of Chasnalla Mine is 230.88 Ha which is a part of 348.18 Ha of total lease area of Chasnalla while remaining 117.30 Ha has been included in Tasra Opencast Project of M/S Steel Authority of India Ltd for which Mining Plan approved and EC granted.</p>
Villages in the ML area	Chasnalla, Het Kandra
Latitude	23°40'03":23°38'33"N
Longitude	86°26'52":86°27'57"E
Total ML Area	<p>For Environmental Clearance of Chasnalla Underground Colliery, an area of 230.88 Ha has been proposed as Chasnalla Area covering Deep Mine, Upper Seam, exhausted West Quarry, existing washery and proposed modular washery.</p> <p>Proposed Chasnalla Underground Project Area = 230.88 Ha</p>
Capacity	<p>Proposed ROM from Mine 1.5 MTPA</p> <p>Proposed washery throughput = 4.0 MTPA</p>
Reserve	Balance tentative geological reserve : 39 MT
Life of the mine	Presently proposed to be 10 years 1.5 MTPA (May be modified as per the Mining Plan which is under preparation)
Method of Mining	Underground
Blasting	Short delay detonators
Storage of explosives	03 magazines of capacity 800 kg, 1361 kg & 2622 kg respectively
Working days	300
Manpower	741

Transportation	From the mine to washery through conveyor belts. The washed coal is transported to Steel Plants by Rail.
Expected cost of the project	The indicative total capital cost estimate for enhancement of colliery capacity to 1.5 MTPA is estimated at 150 crore & the up-gradation of existing washery to 2.8 MTPA and setting up of 1.2 MTPA modular washery is estimated at Rs. 300 Crore.
Elevation	The altitude varies from + 120m to + 170 m AMSL within the area
Topography	The area is broadly characterized by an undulating to a plain country. The colliery area has a general south-easterly slope.
Water requirement	Washery – 6400 KLD Domestic- 1660 KLD Mining - 300 KLD
Source of water	Domestic : Damodar River Industrial: Mines pit
Power requirement and Source	Power is supplied to the Chasnalla Colliery through 33kV O/h line from DVC substation. Normal usage is within 7.2-7.3 MVA & peak hour usage (In monsoon season) being 8 MVA. There will be additional requirement of connected load of 7642 kW (approx.) for the new 1.2 MTPA washery plant which will also be sourced from HT Power supply system from DVC. Specific power consumption for normal operation will be less than 15 KWH/ t of raw coal throughput.

**16. The chronology of events for seeking EC, deliberations by the respective authorities and the actions taken are reported to be as under:**

- (i) Date of application for TOR/EC submitted to MoEF&CC: 03.02.2015, 14.10.2019
- (ii) Observations/recommendations of the EAC/SEAC in **each meeting**: TOR issued on 29.05.2015 but validity lapsed due to delay of mine boundary certification by CMPDIL and EAC on 15.11.2019, after deliberations observed that project involved violation of EIA Notification, 2006 of the Ministry. The Committee also noted that since PP has earlier applied in the Ministry and the proposal may be forwarded to the Violation Sector for appraisal under the provisions of the Violation notification dated 14.03.2017.
- (iii) Details of action taken by the State Government/SEIAA u/s 5/u/s 19 of the EP Act, 1986 for the alleged violation of the EIA Notification, 2006: DMO, Dhanbad has issued a letter vide ref no. 1897/M dated 18.11.2017 for excess production during 2000-01 to 2016-17, benchmarking production year 1993-94.
- (iv) Complaint case filed by the State Government/State Pollution Control Board: NIL
- (v) Legal interventions, if any: The case is under consideration of Revisional Authority, Ministry of Coal (The Applicant has prayed for quashing and setting aside the impugned demand notices. The applicant has also filed

separate applications praying interim relief of staying the impugned demand notices during the pendency of the Revision Applications).

### **Observation and recommendation of the EAC in the earlier meetings:**

EAC in the 31<sup>st</sup> meeting, based on the information submitted by the PP and as presented observed, that earlier, the TOR to the project was granted vide MoEF&CC letter No. J-11015/67/2015-IA-II(M) dated 29.05.2015 for normative 1.2 MTPA/1.5MTPA Peak capacity including expansion of Washery to 4.0 MTPA in proposed 230.88 ha lease area of original mine lease area (348.18 ha). However, the validity of ToR has expired. Latest Consent to Operate (CTO) for the existing capacity was issued by JSPCB vide JSPCB/HO/RNC/CTO-1039297/2017/297 dated 28.03.2017. Application for extension of CTO was submitted on 07.12.2017 and it is pending with JSPCB for want of Environment Clearance.

EAC noted that the instant proposal does not have Environmental Clearance for coal mine and Washery, further PP had exceeded the production of coal in the years 1994-95 to 2005-06 and then from 2007-08 onwards to 2018-19 beyond the threshold limit of 1993-94 base year production (318800 Metric Tonnes), hence instant proposal is under violation since 1994-95. EAC after detailed deliberation **deferred** the proposal for want of following information:

- (i) Copy of letter of intent for mining lease from concerned State Government
- (ii) Clarification regarding mining lease area and whether Washery area (16.5 Ha) is included in 243.50 Ha.
- (iii) Revised from 1 application and pre-feasibility report to be submitted as suggested by EAC.
- (iv) Details of production through U/G Mining and Opencast Mining (Coal + OB excavation details))
- (v) Justification of proposed Washery capacity along with detailed technology & coal Washery.
- (vi) Land requirement plan showing U/G workings + Opencast workings and coal Washery details
- (vii) Copy of earlier ToR letter issued by MOEF&CC.
- (viii) Copy of earlier EAC Minutes.
- (ix) Existing and Proposed plantation details with photographs to be submitted
- (x) Life of mine with calendar programme of the production details from U/G and Opencast mining operations.
- (xi) Past Production details as submitted with the annexures and available in records are variable, submit the correct figures

Project Proponent submitted the above information vide letter dated 30.03.2020. Accordingly, proposal was considered in 32<sup>nd</sup> EAC meeting (present meeting). Project proponent along with the consultant made the detailed presentation before the EAC on the additional information as sought in the last meeting (31<sup>st</sup>).

EAC in the 32<sup>nd</sup> meeting after detailed presentation observed that PP has submitted the revised form 1 and PFR, past production details along with the other information as sought in last meeting. EAC noted that the total lease hold area of Chasnalla is 348.18 Ha out of

which TOR/EC application is submitted for an area of 230.88 Ha which includes Deep Mine, Upper Seam, West Quarry and the existing and & new Washery area. Further, out of 348.18 ha, 117.30 ha included in the Tasra Opencast Project for which EC has been granted and for the remaining 230.88 ha, present application is submitted.

EAC deliberated on the information as presented and submitted by the PP and noted that in present application Chasnalla Coal Complex comprises of two existing U/g mines (Deep Mine & Upper Seam) and a Coal Washery. However, in the revised PFR, mining from 230.88 Ha has been proposed covering Deep Mine, Upper Seam, part of West Quarry. Further, West Quarry is an open cast mine. Because of ambiguity in submission, it is not clear whether method of mining is purely underground or also involves open cast mining.

Also PP in the revised Form did not mention total excavation details including Over Burden (OB) in Tonnes instead PP in the annexure mentioned OB in Cum. EAC also observed that PP did not submit the relevant document for mine lease renewal. EAC also deliberated on the mining lease letter dated 25.12.2014 issued by the District mining office, Dhanbad. In the said letter additional information has been sought for renewal of mining lease of 1213 bigha (566 bigha + 647 bigha). EAC noted that 1213 bigha approximately corresponds to 161 Ha, however present EC application is for mining over 230.88 Ha.

In view of above discrepancies, EAC in 32<sup>nd</sup> meeting after detailed deliberation **deferred** the project for want of following information:

- i. Copy of letter of intent latest for mining lease from concerned State Government for 230.88 Ha and status of earlier points raised by District Mining officer.
- ii. Clarification regarding, present application is for Underground mining only or involves Open cast mining as well, shall be submitted past production comprising of production from UG(T), OCM(T), OB (CUM) having values in tones shall be submitted
- iii. Status of collection of BLD
- iv. Justification for Washery capacity and the different sources with their location details.
- v. Imported coal transportation details along with connectivity to Washery
- vi. Any court case pending against the project with details.

Above information as sought by the EAC in the 32<sup>nd</sup> meeting was submitted vide letter dated 29.05.2020, accordingly proposal is discussed in the present meeting (34<sup>th</sup>) held on 04.06.2020.

Project proponent along with the consultant made the detailed presentation on the additional information as sought in the 32<sup>nd</sup> EAC meeting held on 22.04.2020. EAC observed that PP has submitted the mine lease document from the District Mining Officer, Dhanbad, Govt. of Jharkhand. EAC further observed that Chasnalla colliery both Opencast and underground mines were in operation up to 22.05.2019. Thereafter, Opencast mine has been closed as it had reached its limiting depth and backfilling started. PP also apprised EAC that Chasnalla Mine is developed and operational underground mine, no OB is generated, however during gallery drivage in underground if stone is encountered, the debris/stone generated is mostly

utilized for side wall packing in underground support system. EAC after detailed deliberations on the information presented and as submitted **deferred** the project for want of following information:

- i. Letter of intent for the 230.88 Ha of mining lease from the Directorate Mines and Geology department from the concerned State Govt.
- ii. Mine closure plan for Open Cast Mine (OCM) as per the mine plan along with the clarification whether any dumping of over burden from the OCM is carried or will be carried out in the 230.88 ha of mining lease. Whether this proposal is Underground cum Opencast project.
- iii. Status of Tasra opencast project EC (117.30 Ha)
- iv. Detailed land use plan of 230.88 ha of mining lease area showing all the surface features.
- v. Revised Form 1 and PFR, if any activity of Opencast mining including dumping of overburden in void areas carried out in 230.88 ha.
- vi. Hard copies of all the documents related to earlier meeting and present meeting should be submitted to the Ministry.
- vii. Source water for Coal Washery and NOC from CGWA/Concerned State Government department.
- viii. Sources of coal with location/lead to the Washery.

Project proponent vide letter dated 23.07.2020 submitted the above information sought in the 34<sup>th</sup> EAC meeting. Accordingly, proposal was discussed in the present meeting (35<sup>th</sup>) held during 06<sup>th</sup>-07<sup>th</sup> August 2020.

Project proponent made the detailed presentation before the EAC on the additional information sought in the 34<sup>th</sup> meeting. PP apprised EAC regarding LOI from Directorate Mines and Geology department and clarified that the DMO forward application to the office of Director (Mines & Geol) with his recommendation only when all the desired documents are submitted, and application is complete. In this regard the DMO has already conveyed vide letter No.1729/M/Dhanbad, dated 17.12.2014 and latest letter dated 02.05.2020 to comply the deficiency i.e. copy of EC required for which further processing of application.

PP further regarding Mine Closure Plan for Open Cast Mine (OCM) as per Mine Plan, informed that Provision of reclamation of Open Cast Mine (OCM) will be included in the Mining Plan & Mine Closure Plan under preparation by M/s MECON. As the Open Cast (West Quarry) is already exhausted, no dumping of over burden from OCM will be carried out in the 230.88 ha of mining lease, however it is required to be backfilled and reclaimed utilizing old OB dump material. PP submitted that EC for Tasra opencast project including adjoining area of Chasnalla has been granted by MoEF vide letter No.11015/122/2007IA.II (M) dated 13.10.2009. PP also presented details of land use plan of 230.88 ha of mining lease area and submitted the revised Form 1 incorporating dumping of overburden in void (West Quarry) located in project area of 230.88 ha.

**Observation and recommendation of the EAC in the present meeting (35<sup>th</sup>):**

EAC based on the information submitted and as presented by the PP noted that instead of LoI, PP submitted the letter dated 02.05.2020 from the DMO wherein information on seven points including copy of Environmental Clearance was sought for renewal of mining lease. EAC further noted that the instant project proposal involves underground mining and OB handling at surface for backfilling of exhausted West Quarry.

EAC deliberated on the information submitted in the meetings and as presented before the committee and opined that letter dated 02.05.2020 submitted by the PP may be considered for Terms of Reference. However, PP will be required to submit the letter dated 06.05.2020 to the Ministry wherein compliance of the letter dated 02.05.2020 were submitted to the DMO. EAC further advised PP to submit the revised Form-1 and PFR as the present application is not for underground mining solely but in fact also involves OB handling at surface for backfilling of exhausted West Quarry. Committee advised PP to submit aforesaid information by today evening to the Ministry and LoI at the time of submission of the EC application.

PP vide letter dated 06.08.2020 submitted the revised Form1, PFR and compliance of letter dated 02.05.2020 submitted to the DMO.

EAC after detailed deliberation **recommended** the proposal [*Coal production (1.5 MTPA); expansion of existing coal Washery up to 4.0 MTPA (present capacity of existing washery is 2.04 MTPA and expansion of 1.96 MTPA out of which 0.76 MTPA by the upgradation of existing washery and 1.2 MTPA through installation of proposed modular washery; and OB handling at surface for backfilling of exhausted West Quarry)*] for **issuing Standard Term of Reference applicable to Underground cum Opencast project** along with the following Specific Term of Reference for undertaking EIA and preparation of Environment Management Plan (EMP) under the provision of Ministry Notification dated 14.03.2017:

- i. The State Government/SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no consent to operate for expansion project to be issued till the project is granted EC for the expansion.
- ii. 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.
- iii. 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.
- iv. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter (13) in the EIA report by the accredited consultants.
- v. The project proponent will be required to submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by Expert Appraisal Committee and finalized by Regulatory Authority and the bank guarantee shall be deposited prior to the grant of environmental clearance and will be

released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

- vi. The PP is required to conduct public hearing as per EIA notification, 2006.
- vii. One season base line data is to be collected and reported in the EIA/EMP report.
- viii. Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 1st May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
- ix. In case of violation of undertaking submitted way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated 02.08.2017, the ToR/Environmental Clearance shall be liable to be terminated forthwith.
- x. Budget of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage shall be completed within three years and to prepare accordingly.
- xi. The Action Plan on the compliance of the recommendations of the CAG as per Ministry's Circular No. J-11013/71/2016-IA.I (M), dated 25.10.2017 needs to be submitted at the time of appraisal of the project and included in the EIA/EMP Report.
- xii. Detailed R&R plan is to be submitted in the EIA report.
- xiii. Protective measures to be adopted for Damodar River flowing along and within the lease boundary as approved by DGMS, apart from mitigation measures shall be submitted.
- xiv. Detailed reclamation plan for opencast workings as approved in the PMC of Mine plan.
- xv. Greenbelt development/Bio-diversity Conservation Plan to mitigate the impacts along the budget estimate towards ecology restoration and maintenance shall be prepared.
- xvi. Details about the modular Washery, technology to be adopted and how it is differing from the existing Washery with respect to quality of the washed coal should be furnished in the EIA report
- xvii. Water requirement for domestic use should be submitted along with water balance chart.
- xviii. River Damodar is very near to the boundary of the ML area (about 500 m), there are chances to leak / leach mine water through underground drainages and contribute to the river water resulting change in quality of river water periodically. So, details about the underground drainage pattern of the ML area and also beyond towards east side of the mine.
- xix. In the Environmental Management Plan Chapter (9) of the EIA report, summarised account of significant impacts as identified under each component of the environment and their corresponding mitigative measures along with budgetary requirements and timelines for effective implementation and monitoring.



**35.3.4 Proposed Sponge Iron Plant of 3×100 TPD (90,000 TPA), Induction furnace 200 TPD (60,000 TPA), Rolling mill 200 TPD (60,000TPA) and Captive Power Plant (6MW) at Sy. No. 83A & 76 Village Belagal, Taluk & District Bellary, Karnataka by M/s Sri Sai Sapthagiri Sponge Pvt. Ltd. – Further consideration for Terms of Reference [F.No. J-11011/43/2014-IA.II(I)]**

**Details submitted by the Project Proponent**

Proposed Sponge Iron Plant of 3×100 TPD (90,000 TPA), Induction furnace 200 TPD (60,000 TPA), Rolling mill 200 TPD (60,000TPA) and Captive Power Plant (6MW) at Village Belagal, Taluk & District Bellary, Karnataka by *Sri Sai Sapthagiri Sponge Private Limited*(Latitude: 15°06'33.86''N to 15°06'47.94''N, longitude 76°48'29.11''E to 76°48'43.77''E& Tope sheet No. 57A/12 and 57A/16)

The project involves manufacturing of Sponge Iron Plant of 3×100 TPD (90,000 TPA), Induction furnace 200 TPD (60,000 TPA), Rolling mill 200 TPD (60,000TPA) and Captive Power Plant (6MW) Ltd. in an area of 48562.3 sqm 12 acres (4.86 ha) at Village Belagal, Taluk & District Bellary, Karnataka.

The said project/activity is covered under category “A” S. No. 3 (Material Production), Project Activity ‘3 (a)’ of the Schedule to the EIA Notification, 2006, and requires prior EC from the MoEFCC based on the appraisal by Expert Appraisal Committee. Project also attracts the General Condition-Karnataka & Andhra Pradesh State boundary (~1.7 km in SSW).

The 50 TPD sponge iron plant was established in 2008 without obtaining CFE/CFO from the board and without obtaining environmental clearance from SEIAA/MoEFCC and started its operations from 2010.

Project area: 12 acres (4.86 ha) (Existing) + 20 acres (8.09 ha) (Additional) = 32 Acres (12.95 ha) (Total area). Total cost of the project is 98.00 Crores.

Total freshwater requirement for this project will be 588 KLPD which will be sourced from Bellary Urban Sewage Water Treatment Plant (BUSWT) for industrial uses and drinking water will be sourced from Borewell.

The chronology of events for seeking EC, deliberations by the respective authorities and the actions taken are reported to be as under: -

No.	Particulars	Date
1.	Application submission to SEIAA, Karnataka for 2x50 TPD Sponge Iron Plant	17 <sup>th</sup> July, 2008
2.	Form 1 & relevant information submitted to SEIAA, Karnataka for 2x50 TPD Sponge Iron Plant vide letter no. SEIAA 84 IND 2008 dated 25.08.2008	28 <sup>th</sup> August, 2008
3.	Submission of additional information sought by SEIAA, Karnataka dated 07.11.2008 for 2x50 TPD Sponge Iron Plant	2 <sup>nd</sup> February, 2009
4.	Letter from SEIAA, Karnataka vide letter no. SEIAA 84 IND 2008 for submitting complete information for 2x50 TPD	25 <sup>th</sup> February, 2009

No.	Particulars	Date
	Sponge Iron Plant	
5.	Submission of Form I to MoEFCC, New Delhi for 3x50 TPD Sponge Iron Plant & 200 TPD Rolling Mill	23 <sup>rd</sup> August, 2009
6.	MoEFCC suggested to approach SEIAA Bangalore for their proposal since the sponge iron is less than 200 TPD.	9 <sup>th</sup> October, 2009
7.	Presentation at MoEFCC along with Form I and proposed ToR submission.	22 <sup>nd</sup> November, 2010
8.	ToR letter issued by MoEFCC, New Delhi for 2x100 TPD Sponge Iron Plant & Rolling Mill (60,000 TPA) vide letter no. J-11011/490/2010-IA-II(I)	10 <sup>th</sup> December, 2010
9.	Final EIA Report submitted for Sponge Iron Plant of 2x100 TPD & Rolling Mill (60,000 TPA)	30 <sup>th</sup> November, 2011
10.	Revised Application submission to EAC for proposed Sponge Iron Plant of 3x100 TPD (90,000 TPA), Induction Furnace 200 TPD (60,000 TPA), Rolling Mill 200 TPD (60,000 TPA) and Captive Power Plant (6 MW) to waive of public hearing as the project lies in industrial area	17 <sup>th</sup> Dec., 2013
11.	ToR presentation in 17th EAC meeting for Industry 1 held on 18 <sup>th</sup> -19 <sup>th</sup> March, 2014	18 <sup>th</sup> March, 2014
12.	ToR granted by MoEFCC, New Delhi vide letter no. J-11011/43/2014-IA-II (I) for proposed Sponge Iron Plant of 3x100 TPD (90,000 TPA), Induction Furnace 200 TPD (60,000 TPA), Rolling Mill 200 TPD (60,000 TPA) and CPP (6 MW)	19 <sup>th</sup> May, 2014
13.	Public Hearing conducted by KSPCB	18 <sup>th</sup> January, 2016
	Minutes of Meeting of Public Hearing proceedings displayed on website	23 <sup>rd</sup> Feb., 2016
14.	EIA submission at MoEFCC for final technical presentation	2 <sup>nd</sup> August, 2016
15.	Revised EIA Submission submitted with MoM Compliance of 10th EAC meeting on 29 <sup>th</sup> - 31 <sup>st</sup> August, 2016 with request to relist the proposal	11 <sup>th</sup> December, 2017
16.	Again, Submission of MoM Compliance of 10 <sup>th</sup> EAC meeting on 29 <sup>th</sup> - 31 <sup>st</sup> August, 2016	15 <sup>th</sup> March, 2017 and 10 <sup>th</sup> May, 2017
17.	Revised EIA Submission with MoM Compliance of 10 <sup>th</sup> EAC meeting on 29 <sup>th</sup> - 31 <sup>st</sup> August, 2016	28 <sup>th</sup> February, 2018
18.	A show cause notice was issued to our then Environment consultant (Green Circle Inc.) under Section 5 of EPA Act, 1986 for submitting the misleading information in EIA report	19 <sup>th</sup> September, 2018
19.	Submission of Revised EIA report to MoEFCC and request for consideration in EAC	30 <sup>th</sup> January, 2019
<b><i>Case referred to Violation Committee by Industry-I</i></b>		
20.	Proponent didn't attend meeting due to unavoidable circumstances in 22 <sup>nd</sup> EAC meeting (Agenda Item No.	22 <sup>nd</sup> May, 2019

No.	Particulars	Date
	22.4.7)	
21.	Proposal deferred & ADS generated by Violation Committee in 25 <sup>th</sup> EAC meeting held on 29 <sup>th</sup> & 30 <sup>th</sup> Aug., 2019 due to unsatisfactory reply	30 <sup>th</sup> August, 2019
22.	Proposal deferred & ADS generated by Violation Committee in 29 <sup>th</sup> EAC meeting held on 31 <sup>st</sup> Dec., 2019 due to unsatisfactory reply	31 <sup>st</sup> December, 2019
23.	Reply of the ADS generated of the above mentioned points submitted by the proponent to MoEFCC, New Delhi	9 <sup>th</sup> June, 2020
24.	Proposal considered for further consideration for Terms of Reference in EAC (Violation)	6 <sup>th</sup> Aug., 2020

Earlier, the proposal was considered by the sectoral Expert Appraisal Committee and the project proponent and their EIA-EMP consultant (M/s Green Circle, INC.) gave a detailed presentation on the salient features of the project. The Proposed project was earlier appraised by the 17th Reconstituted Expert Appraisal Committee (Industry) during its meeting held on 18th - 19th March, 2014 and prescribed TORs to the project for undertaking detailed EIA study for the purpose of obtaining environmental clearance. Accordingly, the Ministry of Environment and Forests had prescribed TORs to the project on 19th May 2014. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 18/01/2016. Based on the TORs prescribed to the project, the project proponent submitted an application for environmental clearance to the Ministry online on 2nd August 2016.

The Public hearing of the project was held on 18.01.2016 at the plant premises for setting up of proposed plant, under the chairmanship of Additional Deputy Commissioner, Ballari. It was mentioned in the proceedings of the Public Hearing that M/s Sri Sai Sapthagiri Sponge Pvt Ltd is an existing industry engaged in the manufacturing of sponge iron (1X50 TPD Kiln). This plant has been established during 2008 without obtaining CFE/CFO from the board (SPCB) and without obtaining environmental clearance from SEIAA/MoEFCC. Hence the board has issued closure directions to the plant under the provisions of Water Act & Air Act. Also filed two criminal cases against the industry namely CC No. 1244/2012 and PC No. 107 /2015 at JMFC, Ballari for the said violation.

**Complaint case filed by the State Government/State Pollution Control Board:** - There were 2 cases filed against the unit by Karnataka State Pollution Control Board. Details are mentioned below: -

S. No.	Description	CASE I	CASE II
a	Case No	CC No. 1244/2012 High Court – 10343/2013	PC No. 107/2015
b	Case Type	CRL P (Criminal Petition)	P.C.R. - PRIVATE COMPLAINTS
c	Petitioner and Respondent	Ms. Sri Sai Sapthagiri Sponge Pvt. Ltd. and Karnataka State Pollution Control Board	Karnataka State Pollution Control Board and Ms. Sri Sai Sapthagiri Sponge Pvt. Ltd.
d	Brief about	Criminal Case filed at JFMC	Case filled in JMFC

	the case	Court, Bellary on 18.04.2012 which was challenged in High Court Dharwad Bench and stay was granted on 25.03.2013.	Court, Bellary on 12-03-2015
e	Current Status	Ongoing. Last date of hearing – 07/07/2020. Action taken – Adjourned Latest Order - Two weeks' time is granted at request of petr.	As per case details displayed on online portal, Case Disposed in Court Number 165-PRL and Judge – JMFC, Bellary on 19-11-2016

The case was referred by EAC - Industry 1 to EAC - Violation to consider it under EIA notification, 14.03.2017 as the plant was operating without obtaining CFE/CFO from pollution board and without obtaining environmental clearance from SEIAA/MoEFCC.

#### **Observation and recommendation of the EAC (violation) in the earlier meetings**

Earlier the proposal was considered by the EAC (violation committee) in the 25<sup>th</sup> meeting held during 29<sup>th</sup>-30<sup>th</sup> August 2019. PP alongwith consultant made the presentation before the committee. EAC in the said meeting observed that proposal was earlier considered by the Industry 1 sector. The proposal was prescribed for ToRs by the Ministry vide letter No. J-11011/43/2014-IA-II(I) dated 19th May, 2014. The Public Hearing was conducted on 18.01.2016. During the Public Hearing, the public stopped the presentation and none of the public spoke in the meeting. However, written representations were submitted.

In the public hearing proceedings, it is mentioned that the plant (50 TPD sponge) was operating without obtaining CFE/CFO and Environmental Clearance. The Karnataka Pollution Control Board has issued closure directions to the plant and also filed two criminal cases against the Industry namely CC No. 1244/2012 & PC No. 107/2015 at JMFC, Bellari.

The proposal was then considered in the EAC (Industry 1) meeting held during 29<sup>th</sup> - 31<sup>st</sup> August, 2016. The committee desired some additional information from the PP and therefore deferred the project.

The Project Proponent replied twice with a copy of EIA report vide letter even no. dated 28.02.2018 and 10.05.2018. The reply was incomplete and therefore, it was decided not to relist the proposal and issued show cause notice to the consultant, M/s Green Circle Inc vide letter even no. J-11011/43/2014-IA-II (I) dated 19.09.2018. In response, M/s Green Circle Inc vide letter dated 12.10.2018 submitted the reply to the Ministry.

The case was referred by the Industry 1 sector to violation committee to consider the proposal under the EIA notification, 14.03.2017. EAC (Violation committee) further observed that since PP had operated the plant (50 TPD sponge) without obtaining CFE/CFO and Environmental Clearance hence violation of the EIA Notification. EAC further noted that PP was unable to present the chronology of the events. EAC, based on the information available

in the records and as presented by the deferred the proposal in the 25<sup>th</sup> meeting for want of following information:

- i. Complete chronology of the events of the proposed project with supporting documents shall be submitted and presented before the committee.
- ii. Complete details of the products along with the production capacity is to be submitted.
- iii. Year wise production details since inception of the project is to be submitted by way of affidavit.
- iv. Revised Form 1 and prefeasibility report is to be submitted.
- v. Details along with present status of the criminal cases filed against Industry isto be submitted.

PP vide letter dated 19.12.2019 submitted the information to the Ministry, accordingly proposal was considered in the 29<sup>th</sup> meeting held on 30<sup>th</sup> - 31<sup>st</sup> December, 2019. EAC observed that PP did not submit the revised Form-1 under violation category. Further, since the instant project qualifies as category A project, however the consultant (Green circle, Inc, Vadodra) engaged by the PP is accredited for category B. In view of this, EAC in the 29<sup>th</sup> meeting deferred the project and advised PP to submit the revised Form 1 under violation and to make the detailed presentation for ToR and on the ADS of earlier meeting.

Reply of the ADS generated of the above-mentioned points was submitted by the proponent to MoEFCC, New Delhi on 9<sup>th</sup> June, 2020. Proposal is now considered for further consideration for Terms of Reference in EAC (Violation) on 6<sup>th</sup> Aug., 2020.

### **Observation and recommendation of the EAC (violation) in the present meeting (35<sup>th</sup> )**

#### **Submission of PP**

Project proponent in the present meeting informed that they have appointed the new consultant J.M. EnviroNet Pvt. Ltd., NABET Accredited EIA Consultant (Certificate No. NABET/EIA/1720/SA 097 valid till 29.09.2020). PP along with the consultant made the detailed presentation on the additional information sought by the EAC in the 25<sup>th</sup> meeting and informed that Sri Sai Sathagiri Sponge Pvt. Ltd. (SSSSPL) established 50 TPD sponge iron plant in 2008 without obtaining CFE/CFO from the board and without obtaining environmental clearance from SEIAA/MoEFCC and started operations from 2010.

For existing plant, company had initially applied in SEIAA/SEAC Karnataka on 17.07.2008 for obtaining EC. Since, General condition (Interstate boundary of Andhra & Karnataka in 5 km radius) was applicable, thus project was to be appraised as “Category A” and at Central level.

Company applied in MoEFCC, New Delhi with revised proposal for “Proposed Sponge Iron Plant of 3×100 TPD (90,000 TPA), Induction furnace 200 TPD (60,000 TPA), Rolling mill 200 TPD (60,000TPA) and Captive Power Plant (6MW) at Village Belagal, Taluk & District Bellary, Karnataka” and ToR letter was obtained vide letter no. J-11011-43/2014-IA-II(I) dated 19th May, 2014.

S. No.	Details of Units #	Name of Product	Existing production capacity	Additional production capacity	Total capacity

1.	Sponge Iron Plant	Sponge Iron	15,000 TPA (1 X 50 TPD) *	75,000 TPA	90,000 TPA (3 x 100 TPD)
2.	Induction Furnace	Billets & Ingots	-	60,000 TPA (1 X 20T IF)	60,000 TPA (1 X 20T IF)
3.	Rolling Mill	TMT Bars	-	60,000 TPA (200 TPD)	60,000 TPA (200 TPD)
4.	CPP	Electricity	-	6 MW [5 MW WHRB (3 X 11 TPH) +1 MW AFBC Boiler (10 TPH)]	6 MW [5 MW WHRB (3 X 11 TPH) +1 MW AFBC Boiler (10 TPH)]
* Existing 1 x 50 TPD Kiln will be upgraded/ replaced # Proposal considering 300 working days					

### Raw Material

S. No.	Raw Material	Quantity (TPA)	Source of Raw Materials	Mode of Transport	Distance from Project site
1	Iron Ore	155,925	Chitradurg, Hospet, Bellary	Road	30-40 km
2	Coal	136,000	Imported & then transported from Mangalore/ Goa to site. Locally from Singareni Collieries	Rail up to unloading point and then truck	-
3	Dolomite	5670	Dronachalam	Road	
4	Sponge Iron	90,000	Inhouse Consumption + local sale	Road	10-20Km
5	MS Scrap	13,258	Local availability	Road	Up to 100 km
6	Pig Iron	3,000	Local availability	Road	Up to 100 Km
7	Billets	60,000	Internal Consumption		

*The quantity includes 5% provision for moisture and handling losses over net requirement*

### Basic requirements

Particulars	Requirement			Source
	Existing	Additional	Total	

Fresh Water (KLD)	30	558	588	Bellary Urban Sewage Water Treatment Plant (BUSWT) for industrial uses and drinking water via tankers from Bellary Municipality.
Power (MW)	0.5	5.15	5.65	CPP & State power distribution corporation limited (SPDCL)
Manpower (Persons)				
Regular	15	35	50	Source: Unskilled/ Semi-skilled-local area; skilled- nearby areas & outside areas also
Contractual	35	115	150	
Total	50	150	200	

### Breakup of water requirement

S. No.	Usage	Total Fresh water requirement (KLPD)
1	Industrial use	480
2	Domestic use	20
3	Greenbelt Development	80
4	Others	8
	<b>Total</b>	<b>588 KLPD</b>

Public Hearing was conducted by State Pollution Control Board on 18<sup>th</sup> Jan., 2016 and subsequently, EIA/EMP Report was uploaded on 2<sup>nd</sup> August 2016 for grant of EC. The case was referred by Industry 1 sector to violation sector to consider it under EIA notification, 14.03.2017 as the plant was operating without obtaining CFE/CFO from pollution board and without obtaining environmental clearance.

The SPCB has issued closure directions to the plant under the provisions of Water Act & Air Act. Also filed two criminal cases against the industry namely CC No. 1244/2012 and PC No. 107 /2015 at JMFC, Ballari for the said violation under the Air Act, 1981.

### EAC deliberation and recommendation:

The EAC deliberated on the information submitted to the Ministry and as presented by the PP. The EAC, after detailed deliberations in the present meeting (35<sup>th</sup>) on the proposal in terms of the provisions of the MoEF&CC Notification dated 14<sup>th</sup> March, 2017, confirmed the case to be of violation of the EIA Notification, 2006 and **recommended** for issuing Standard Term of Reference along with the following Specific Term of Reference for undertaking EIA and preparation of Environment Management Plan (EMP):

- i. The State Government/SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no consent to operate to be issued till the project is granted EC.

- 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 (13) in the EIA report by the accredited consultants.
- vi.** Budget of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage shall be completed within three years and to be prepared accordingly.
- vii.** Economic benefit accrued during violation period with certification from concerned finance department
- viii.** The PP is required to conduct public hearing as per EIA notification, 2006.
- ix.** One-season fresh base line data (BLD) to be generated for preparation of EIA/EMP report. PP may use the data already collected BLD, subject to its validity of three years at the time of submission of EC application.
- x.** The PP should also address the all the issues raised during public hearing along with commitments made and with fund provision to address above issues in tabular form to be submitted along with EIA/EMP report.
- xi.** Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 1st May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
- xii.** A plan for implementation of ZLD to be submitted.
- xiii.** Source of water and its permission from concerned authority.
- xiv.** Detailed Risk Assessment studies with modelling to be submitted in the EIA/EMP report.
- xv.** Water requirement, waste water generation, water balance and waste water treatment.
- xvi.** Traffic density study to be carried out and impact prediction modelling to be submitted in



the EIA/EMP report.

**xvii.** Layout plan earmarking space for 33% greenbelt with in Industrial area around the compound wall.

**xviii.** Details as per Annexure XI as mentioned in the agenda shall be submitted.

**xix.** Greenbelt development/Bio-diversity Conservation Plan to mitigate the impacts along the budget estimate towards ecology restoration and maintenance shall be prepared.

**xx.** In the Environmental Management Plan Chapter (9) of the EIA report, summarised account of significant impacts as identified under each component of the environment and their corresponding mitigative measures along with budgetary requirements and timelines for effective implementation and monitoring.

**35.3.5 Proposed Enhancement of iron ore production from 2.4 MTPA to 6.00 MTPA at Kurmitar Iron & Manganese Ore mining project (651 Ha) of Odisha Mining Corporation Limited - For Environmental Clearance. [Proposal No IA/OR/MIN/142102/2018; F. No. 23-237/2018-IA.III(V)]**

**Details submitted by the Project Proponent**

Kurmitar iron ore mining lease is owned by Odisha Mining Corporation Limited (OMC) and is located in villages: Tilkuda, Uskuda, Sareikala and Khandadhar Reserve Forest, Barsuan block & Bonai sub-division of Sundergarh district in Odisha. The Environment Clearance for Kurmitar iron ore mining lease for iron ore production capacity of 2.4 MTPA has been accorded by Ministry of Environment, Forests and Climate Change, Govt. of India (MoEFCC) vide letter no. J-11015/1080/2007-IA.II(M) dated 02.09.2008.

The entire Mine lease area of 651.0 ha is under forest and comprising of 52.90 ha of Reserve Forest and 598.1 ha of Protected Reserve Forest. The Stage-II Forestry Clearance of the mine has been accorded for an area of 133.112 ha by MoEFCC (FC Division) vide letter no. 8-113/2000-FC(Vol-I) dated 10.04.2007. The Stage-II Forestry Clearance for 517.888 ha has been accorded by MoEF&CC (FC Division) vide letter no. 8-113/2000-FC(Vol-II) dated 29.11.2018.

The proposed proposal is to enhance the rated capacity of Kurmitar Iron Ore Mine from 2.4 MTPA to 6.0 MTPA by M/s OMC in the existing ML area of 651.0 hectare.

**1. Name of the Project :-** Kurmitar Iron & Manganese ore mining project of M/s Odisha Mining Corporation Limited, located at Village Tilkuda, Uskuda, Sareikala&Khandadhar RF, Bonai Sub-division, Sundergarh District, Odisha

**2. Name of the Company, Address Tele No. & E-mail Head of organization :**

**Address for Correspondence:-**

Odisha Mining Corporation Limited

OMC House, Post Box No. 34

Dist. Khurda, Odisha – 751001

Tel: 0674-2377400, Fax: 0674-2391629, 2396889, 2394772

Email: [envel.omc@gmail.com](mailto:envel.omc@gmail.com)

**3. If a Joint venture, the names & addresses of the JV partners including their share:-Not Applicable**

Latitude and Longitude of the project  
Latitude : 21<sup>0</sup>44'08'' N to 21<sup>0</sup>45'32'' N  
Longitude : 85<sup>0</sup>08'55'' E to 85<sup>0</sup>10'57'' E

**4. Whether the project is in the Critically Polluted Area (CPA): No**

**5. Cost of the project :-** Rs. 14346.40 lakhs - Capital cost for expansion of Kurmitar Iron & Manganese ore mining project

**6. Employment generated/ to be generated :- 412**

**7. Benefits of the project**

**Environmental Benefits:**

- No land acquisition is required for the expansion.
- Plantation of trees - density 1600/ha.
- Provision of about 560 lakhs towards CER.
- Budgetary provision of 985.25 lakhs towards Damage Remediation Plan, Natural Resource Augmentation Plan and Community Resource Augmentation Plan.
- 

**Social Benefits:**

- Strong employment generation potential: Project will directly employ about 412 people & substantial number of indirect jobs benefitting mostly the local people will also be generated.
- Stimulating growth of physical infrastructure:
- Peripheral development and CSR activities.
- Boost In Agricultural Sector: Enhanced agriculture production by way of providing supplementary income
- Improvement in social capital building: Setting up infrastructure for water supply, medical facilities, education, training, village infrastructures etc.
- Improvement in living standards: Boost positive consumption pattern, saving & more social security through banking and other investments

**Economic Benefits:**

- Revenue to state exchequer and to meet the rising demand of iron ore.
- Meet rising market demand of Iron ore in Iron & Steel industries.

**8. Whether new or expansion project. If expansion:**

(i) From ..... MT to ..... MT

(ii) What is the % of expansion

(i) Enhancement of iron ore production from 2.4 MTPA to 6 MTPA at Kurmitar Iron & Manganese Ore Project (M.L. Area: 651.0 ha).

(ii) Expansion % - 150%

**9. If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006. :-Not Applicable.**

**10. If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEFCC.**

File No. 101-460/EPE/157 dated 23.10.2019 and

File No. 101-460/EPE dated 16.04.2020

No. and Date of the ToR /and revised ToR, if any, letter issued by the MoEFCC (if this is a case for EC). F. No. 23-237/2018-IA.III(V) dated 16.01.2019

**11. Type of Mine:**

(Opencast/Underground/mixed): Open Cast

Capacity of the mine applied for :- 6.0 MTPA (Iron ore)

ML Area

(i) As per block allotment

(ii) As per approved mine plan

651.0 ha (561.47 ha area surrendered from initially allotted 1212.47 ha ML)

651.0 ha (Retained ML Area)

**12. Date of approval of mine plan, mine closure plan, status & date**

Modification of Approved Mining plan of Kurmitar Iron Ore Mine along with Progressive Mine Closure Plan (PMCP) has been approved by Indian Bureau of Mines for an area of 651.0 ha vide letter no. MPM/FM/02-ORI/BHU/2014-15/3282 dated 24.11.2014.

Final Mine Closure Plan (FMCP) for the proposed area to be surrendered i.e. 561.47 ha was approved by IBM vide letter no. T-45010/MCP/CGBM/08 dated 22.08.2013.

**13. Date of Board's approval:**

Approval has been obtained - 18.03.2016

Date of Ground water clearance and surface water approval.

- NOC to abstract 25 m<sup>3</sup>/day of Ground Water has been obtained from CGWA, Govt. of India vide NOC No. 5-22/SER/CGWA/2014-575 dt. 19.06.2014.
- Surface water drawl of 350 m<sup>3</sup>/d (0.143 cusecs) has been obtained from Department of Water Resources, Govt. of Odisha vide letter no. 3434/WR dated 06.02.2019.

Existing Ground water level in (M)

735 m AMSL.

**14. Date of mine closure approval: -Not Applicable**

**15. Progressive mine closure plan has been approved by Indian Bureau of Mines for an area of 651.0 ha vide letter no. MPM/FM/02-ORI/BHU/2014-15/3282 dated 24.11.2014. Any river/Nallah flowing near or adjacent to the proposed mine. If yes, please give details.**

3 Nalas:

Khandadhar Nala (~0.3 km)

Paikuncha Nala (~0.5 km)

Marda Nala (~1.8 km)

2 Rivers:

Korapani Nadi (~3 km)

Totunda Nadi (~4 km)

**16. Details of mine lease:-**

<p>1. Date of entering into Original lease deed:</p> <p><b>* 29.04.1965.</b></p> <p>2. Date of expiry of Original lease deed:</p> <p><b><u>28.04.1985</u></b></p> <p><u>The Mining Lease for 1212.47 ha</u></p>	<p>Date of 1<sup>st</sup> lease renewal: 06.07.1984 [Date of application for renewal for 1212.47 ha].</p> <p>26.04.1994 [Date of application for renewal of the lease as second instalment of the 1<sup>st</sup> renewal for the period of further 10 years from 29.04.1995 to 24.04.2005.</p> <p>Whether renewal or Deemed renewal: <b>Deemed renewal.</b></p> <p>Date of expiry of 1<sup>st</sup> lease renewal / deemed renewal: 28.04.2005.</p>	<p>Date of 2<sup>nd</sup> lease renewal:</p> <p>23.04.2004 [Date of application for renewal for 651.0 ha].</p> <p><u>2<sup>nd</sup> Renewal Mine lease granted. Lease valid for 30 years (i.e. <b>Valid till 28.04.2035</b>).</u></p>
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### Technical Details

Sl.No.	Item	Details
1.	<u>Geological Reserve:</u> (i) Total geological reserve (ii) Mineable reserve (iii) Extractable reserve (iv) Per cent (%) of extraction (v) Range of ground water level (vi) Total estimated water requirement: (vii) Details of intersecting ground water level	 188.20 Million Tonnes (as on 01.10.2014) 145.35 Million tonnes (as on 01.10.2014) 145.35 Million tonnes (as on 01.10.2014) 77.23 % Below 735 m AMSL Industrial water requirement: 350 m <sup>3</sup> /d (0.1430570 cusecs). Domestic/Drinking water requirement: 25 m <sup>3</sup> /day. A total of 81 m <sup>3</sup> /day water will be recycled & utilized for green-belt development, drilling & spraying and dust suppression, treated using existing facilities before being distributed. The mine working will not intersect ground water table.
2.	<u>Details of Deposits :</u> (i) Depth of ore body (ii) Grade of ore (iii) Stripping ratio	 93.70 m (max.) Average : 62.53% 8.59 (on tonne to m <sup>3</sup> basis and Ore: OB)
3.	Method of mining:	Open Cast
4.	Life of mine	25 years
5.	Whether ambient air quality seasonal data has been monitored. If so, from which season to which season and whether the results are within the prescribed limits.	Not Applicable

Sl.No.	Item	Details
6.	Whether the monitoring report of earlier EC from MoEF Regional Office has been obtained, in case the proposal is for expansion.	Yes; Certified Compliance Report was issued in respect of Kurmitar iron ore mine by <b>Eastern Regional office Bhubaneswar</b> vide letter no. 101-460/EPE/157 dated 23.10.2019 and 101-460/EPE dated 16.04.2020
7.	<u>Details of O.B.</u>	
	(i) External OB dumps	Yes
	(ii) No. of OB dumps	3 nos. [WD, WD1a, WD1b]
	(iii) Area of each dump	Total 61.30 ha [WD- 6.85 ha, WD1a- 20.43 ha, WD1b- 34.02 ha]
	(iv) Height of each dump	60 m (6 terrace of 10m each)
	(v) Quantity (in MCm) of OB in each dump [Mcu.m]	WD- 0.28, WD1a- 6.49, WD1b- 1.72
	(vi) Year of back filling	A part of mined out pit will be backfilled in the ultimate stage with the mine waste where non persistence of ore has been proved.
	(vii) No. of OB dumps reclaimed	3 nos.
	(viii) If garland drains and settlement facility for runoff created	Retaining walls and garland drains have been provided for the dumps to control surface run-off. Settling pits also been proposed in the drains to arrest solid particles.
(ix) Whether runoff water being utilized	-	
8.	<u>Details of Internal Dumps</u>	None
	(i) Number of internal dumps	=
	(ii) Area of each dump	=
	(iii) Height of each dump	-
	(iv) Quantity of wastes filled (MCm)	-
9.	<u>Utilization potential of wastes</u>	-
	(i) Within the mines	Reclamation of mined out areas by backfilling.
	(ii) Outside mines	-
	(iii) Efforts made by proponent	To be used for backfilling.
10.	<u>Details of final Mine Voids</u>	
	(i) Area	496.948 ha [Afforested]
	(ii) Depth	Ultimate pit limit : 786-1062 m AMSL
11.	<u>Details of Quarry:</u>	
	(i) Total quarry area :	496.948 ha [conceptual stage]
	(ii) Backfilled quarry area of .....ha shall be reclaimed with plantation	48.60 ha (back filled area)
	(iii) A void of ..... ha at a depth of ..... m which is proposed to be converted into a water body	NIL
	(iv) Green belt created in ha.	6.85 ha

Sl.No.	Item	Details					
12.	<u>Details of Land usage</u>						
	(i) Pre-mining		Entire Mine lease is under Forest Land: 651.0 ha, Out of which Reserve Forest 52.901 ha and Protected Reserve Forest 598.099 ha.				
	(ii) Post-Mining	<b>Land use</b>		Plantation	Water body	Public use	Total
		Excavation / quarry		496.948	-	-	496.948
		Top Soil Storage		0	-	-	0
		External OB Dump		61.300	-	-	61.300
		Internal OB Dump		0			0
		Roads		0	-	-	0
		Built Up Area (Colony/Office)		8.630		-	8.630
		Virgin Area		0	-	-	0
		Green Belt		9.392	-	-	9.392
		Others	Mineral storage/sub grade dump	74.73	-	-	74.73
<b>Total</b>		<b>651.0</b>	<b>-</b>	<b>-</b>	<b>651.0</b>		
<u>(iii) Core area</u>	<b>Particulars</b>		<b>Existing Land use (As on 30.09.2014) (ha)</b>	<b>At the end of Scheme period (ha)</b>	<b>Conceptual Stage (ha)</b>		
	Mining		52.328	84.027	496.948		
	OB/Waste dumping		15.780	27.92	61.300		
	Subgrade Dumping		9.860	23.074	41.670		

Sl.No.	Item			Details			
			Mineral Storage	0.000	12.80	33.060	
			Feeding area & Long Distance Conveyor for new projects	0.335	12.346	8.630	
			Statutory Barrier (7.5 m safety zone)	9.392	9.392	9.392	
			Roads	1.977	4.788	0.000	
			Total	80.280*	164.951*	651.000	
			* Excl. Safety Barrier area				
13.	<u>Details of Forest issues</u>						
	(i) Total forest area involved (in ha) for mining lease.			651.0 ha			
	(ii) Total broken forest area.			28.802 ha			
	(iii) Status of Forest Clearance and extend of forest land diverted in ha.			Stage-II FC accorded for entire lease area of 651 ha. Stage-II FC granted over 133.112 ha on dt. 10.04.2008 and 517.888 ha on dt 29.11.2018 by MoEF&CC.			
	(iv) Is there any National Park, Eco-sensitive zones, within 10 km radius? If so, give the details.			No			
	(v) Extent of forest land in the project (including safety zone and all types of forest land) (in ha)			Entire Mine lease is under Forest Land : 651.0 ha (Reserve Forest 52.901 ha and Protected Reserve Forest 598.099 ha)			
	(vi) Total forest land for which Stage-1 FC is available (give area in ha), provide breakup of this area in following format.			<b>Area (in</b>	<b>Stage-II FC issued letter no. &amp; date</b>	<b>FC vide</b>	<b>Validity period</b>
				13	Stage-II FC vide letter no. 8-113/2000-	20	ye ar

Sl.No.	Item	Details									
		<table border="1"> <tr> <td></td> <td>FC(Vol-I) dated 10.04.2007.</td> <td>s</td> </tr> <tr> <td>51</td> <td>Stage-II FC vide letter no. 8-113/2000-FC(Vol-II) dated 29.11.2018</td> <td>20 years</td> </tr> <tr> <td><b>65</b></td> <td colspan="2"><b>Total (Entire Mine Lease)</b></td> </tr> </table>		FC(Vol-I) dated 10.04.2007.	s	51	Stage-II FC vide letter no. 8-113/2000-FC(Vol-II) dated 29.11.2018	20 years	<b>65</b>	<b>Total (Entire Mine Lease)</b>	
	FC(Vol-I) dated 10.04.2007.	s									
51	Stage-II FC vide letter no. 8-113/2000-FC(Vol-II) dated 29.11.2018	20 years									
<b>65</b>	<b>Total (Entire Mine Lease)</b>										
	(vii) Balance forest land for which Stage-I FC is not available (give area in ha)	Nil									
	(viii) Details of wild life issues involved, if any. If so, whether WL management plan has been prepared; pl. indicates the status.	The Site Specific Wildlife Conservation Plan has been prepared and approved by PCCF(WL) & CWLW, Odisha vide letter no. No. 9518/1WL(C) SSP-96/2012 dt. 02.12.2013 with a total financial outlay of 1372.67 lakhs. OMC has deposited Rs.781.15 lakhs (for the core and buffer zone) through RTGS mode bearing No. UTR ANDBH 14004187130 dt. 03.01.2014, towards the approved activities to be taken up by the DFO, Bonai Division in the zone of influence (10km radius) to be completed within 10 years of operation.									
	(ix) Whether Schedule-I species, if yes conservation plan is approved by CWLW?	The conservation plan has been approved by PCCF(WL) & CWLW, Odisha vide letter no. 9518/1WL(C) SSP-96/2012 dt. 02.12.2013									
14.	<u>Costs of the project:</u>										
	(i) Total capital Cost:	Rs. 14346.40 lakhs									
	(ii) Cost of Production:	Rs. 903.64 per tonne at rated capacity (iron ore).									
	(iii) Sale Price:	Rs. 3864 /MT									
	(iv) CSR cost:	Approx. Rs. 30 lakhs per year									
	(v) R&R Cost:	Not Applicable									
	(vi) No of PAFs:	Not Applicable									
	(vii) Cost for implementing EMP	Capital cost: Rs. 13280.165 lakh (approx. including NPV, CA and wildlife conservation cost) Recurring Cost: Rs.65 lakh per annum (approx)									
15.	<u>Details of villages/habitation in mine lease area</u>										



Sl.No.	Item	Details											
	(i) Inside the lease	No fresh area is to be acquired as all the workings have been proposed within the existing ML.Hence the project does not envisage R&R.											
	(ii) Surrender by lease	Not Applicable. Earlier OMC surrendered 561.47 ha area to State Govt. vide letter no. 9762/SM dated 09.10.2013.											
	(iii) Extent of cropland acquired/ being acquired in ha.	NIL											
16.	<u>Details of transportation of mineral</u>												
	(i) In pit:	Dumpers / Tipper Trucks											
	(ii) Surface to siding:	CLO and fines is transported by dumper to the stockyard which is further transported to respective buyers.											
	(iii) Siding to loading:	Installation of a mechanised mechanical evacuation system with Long Distance Conveyor Belt.											
	(iv) Quantity being transported by Road/Rail/conveyer /ropeway	Road: 1.8 MTPA Conveyor: 4.2 MTPA											
	(v) Proposed change in transportation means if any, give details.	OMC has planned - Long Distance Conveyor Belt (LDBC) upto Barsuan railway siding. Two-line conveyor belt system of 1000 TPH capacity each.											
17.	<u>Details of reclamation:</u>												
	a. Afforestation shall be done covering an area of: ..... ha at the end of mining. This will include:	109.90 ha											
	(i) Reclaimed external OB dump ( in ha) :	54.45 ha											
	(ii) internal dump (in ha)	48.6 ha (back filled area)											
	(iii) Green belt ( in ha)	6.85 ha											
	(iv) Density of tree plantation (in no of plants)	1600 nos./ha											
	(v) Void (in ha) at a depth of (in m)which is proposed to be converted into water body	NIL											
	(vi) Others in ha (such as excavation area along ML boundary, along roads and infrastructure, embankment area and in township located outside the lease etc).	<table border="1"> <thead> <tr> <th>Type of land</th> <th>Afforestation (Area-ha)</th> </tr> </thead> <tbody> <tr> <td>Excavation</td> <td>496.948</td> </tr> <tr> <td>Subgrade Dump</td> <td>41.67</td> </tr> <tr> <td>Mineral storage</td> <td>33.06</td> </tr> <tr> <td>Feeding area &amp; LDBC</td> <td>8.63</td> </tr> <tr> <td>Statutory safety</td> <td>9.392</td> </tr> </tbody> </table>	Type of land	Afforestation (Area-ha)	Excavation	496.948	Subgrade Dump	41.67	Mineral storage	33.06	Feeding area & LDBC	8.63	Statutory safety
Type of land	Afforestation (Area-ha)												
Excavation	496.948												
Subgrade Dump	41.67												
Mineral storage	33.06												
Feeding area & LDBC	8.63												
Statutory safety	9.392												

Sl.No.	Item	Details		
		barrier (7.5 m)		
	(vii) Agriculture and horticulture	Nil		
	(viii) Fisheries	Nil		
	(ix) ECO Tourist/recreation spot	Nil		

### Legal Issues

Sl.No.	Item	Details
18.	Any court case pending. If so, please provide a list with details as annexure.	Yes
	(i) Environment (Protection) Act	One case bearing case no. 2 (C) C 36/2013 under section-15 of EP Act, 1986 is sub-judice in the court of Sub-divisional Magistrate, Bonai.
	(ii) Air (P&CP) Act	Nil
	(iii) Water (P&CP) Act	Nil
	(iv) MMRD Act	Nil
	(v) Factories Act	Nil
	(vi) Other land R&R related cases	No fresh area is to be acquired as all the workings have been proposed within the mine lease only. Hence the project does not envisage R&R.
19.	Any violation cases pending, if so, please provide a list with details as annexure.	No.

20.	Give details of actual production vis-à-vis sanctioned capacity since the inception of mine in following format since 1993-94 :	<u>Environmental Clearance is applied.</u>			
		<b>FY</b>	<b>EC (t)</b>	<b>DMG Certified Production (t)</b>	<b>Excess Production (t)</b>
		1993-94	-	38000	-
		1994-95	-	66800	28800.00
		1995-96	-	63500	25500.00
		1996-97	-	47300	7300.00
		1997-98	-	27700	-
		1998-99	-	0	-
		1999-00	-	0	-
		2000-01	-	0	-
		2001-02	-	0	-
		2002-03	-	0	-
		2003-04	-	17100	-
		2004-05	-	247105.27	209105
		2005-06	-	702503.945	664503
		2006-07	-	1459255.47	1421256
		2007-08	-	2000612.25	1962612
		2008-09	2400000	2399911.08	999911
		2009-10	2400000	2398180.8	-
		2010-11	2400000	1333221.18	-
		2011-12	2400000	1611612	-
		2012-13	2400000	1541000	-
		2013-14	2400000	1275164.11	-
2014-15	2400000	686316.86	-		
2015-16	2400000	2399999.51	-		
2016-17	2400000	2399999.84	-		
2017-18	2400000	2399999.84	-		
<b>2018-19</b>	<b>2400000</b>	<b>2399999.84</b>	<b>-</b>		

### Publichearing details

<b>Sl.No.</b>	<b>Item</b>	<b>Details</b>
1.	Date and Place of public hearing:	Date : 19.11.2019 Venue: Upper Ranta Play Ground, Bhutuda Gram Panchayat, Lahunipada
2.	The designation of officer presided over the PH.	Additional District Magistrate, Rourkela
3.	Issues raised during Public Hearing and assurance given along with the financial provisions, if any, by the project proponent. (Please attach as an annexure in a tabular form.)	Given in Annexure 7.1, 7.2 & 7.3 of EIA/EMP Report

Sl.No.	Item	Details
4.	Number of representation record in writing from the district and outside of district, please give details.	152

### Consultant

Sl.N o .	Item	Details
5.	Name of the EIA consultant who prepared the EIA/EMP report.	<b>MECON Limited (A Govt. of India Enterprise), Ranchi – 834002</b> has been appointed as Accredited Consultant Organisation for carrying out EIA/EMP studies.
6.	Whether the consultant has been accredited by the QCI and NABET as per the MoEF OM dated 2 <sup>nd</sup> December, 2009.	Yes; <i>Sr. No. 109 in the "List of Accredited Consultant Organisations (Alphabetically) / Rev. 85 Mar.09, 2020</i>
7.	Name of other specialists/consultants involved in making EIA report in collecting data.	EC: Shri Vishal Skaria; FAEs: Dr. S.K.Singh, Dr. M.K.Mukhopadhyay, Dr. S. Bhattacharya, Shri S Adak, Shri A.K.Mishra, Shri Palash Banerjee, Dr. N.Prasad, Dr. Piyal Das, Shri Sunny Budhraja, Shri KumudRanjan.

### **Observation and recommendation of the EAC in the present meeting (35<sup>th</sup>):**

EAC deliberated on the information submitted by the PP (Form2, EIA/EMP report, EC compliance report etc) and as presented before them. EAC observed that PP has gone for expansion beyond EC capacity without taking prior EC from the MoEF&CC. EAC further observed that pursuant to the interim order dated 16.05.2014 of the Hon'ble Supreme court, the year wise violations on different accounts and the respective penalty paid by OMC for violations is detailed hereunder:

- Deputy Director Mines, Koira Circle vide notice no. 5078/Mines dated 02.09.2017 raised a demand notice for Rs. 508,36,73,474 (Rupees Five Hundred Eight Crore Thirty-Six Lakh Seventy-Three Thousand Four Hundred Seventy-Four) against violation of E(P) Act, 1986 during 2000-01 to 2010-11 and under the provisions of Sections 21 (5) of the MMDR Act, 1957. OMC paid the compensation on 27.12.2017.
- Deputy Director Mines, Koira Circle raised a demand notice vide notice no. 5904/Mines dated 24.10.2017 for Rs. 2,06,23,106 (Rupees Two Crore Six Lakh Twenty-Three Thousand One Hundred Six) against violation of F(C) Act, 1980 during 07.01.1998 to 31.03.2011, under the provisions of Sections 21 (5) of the MMDR Act, 1957. OMC deposited the same as payment of compensation on 29.12.2017.
- Deputy Director Mines, Koira Circle raised a demand notice vide letter No. 6024/Mines dated 24.10.2017 of Rs. 104,17,56,321/- (Rupees One Hundred four Crore Seventeen Lakhs Fifty-six Thousand three Hundred and Twenty One) against the Ores/Minerals raised without CTO/Mining Plan. The ordered amount with interest was paid by OMC on 18.09.2018.

EAC further observed that entire lease is located in the forest land and Stage II FC has been granted to the project for 113.112 ha and 517.888 ha vide dated 10.04.2008 and 29.11.2018, respectively. EAC noted that as per the NEERI recommendation: for non-captive mine, at least 70% of mineral transportation should be done through conveyor belt upto the railway siding. Kurmitar Mine: Capacity 6.0 MTPA, Maximum of 1.8 MTPA can be transported by Road. OMC has planned - Long Distance Conveyor Belt (LDBC) upto Barsuan railway siding. Two-line conveyor belt system of 1000 TPH capacity each. However, Considering the gestation period inherent in completion of required infrastructure i.e. Long Distance Conveyor Belt, transportation will be carried out through road only.

EAC further observed that PP has submitted the CER cost of Rs 560 lakhs and budgetary provision for Remediation Plan, NRA and CRA of Rs 985.25 lakhs against the damage cost of 13.26 crores. EAC after detailed deliberation on the information submitted by the PP, **deferred** the project for want of following information from the PP:

- i. Revised damage cost and Remediation plan considering ground water and surface water cost as per the CPCB guidelines.
- ii. Profit accrued during the violation shall be added (3%) to CRAP.
- iii. Time bound action for non-compliances of earlier Environmental Conditions stipulated in the EC letter dated 02.09.2008.
- iv. Revised time bound action plan for CER with year wise details.
- v. Pre mining, present and post mining land use plan in the tabular form shall be submitted.
- vi. Copy of revised approved mining plan with covering letter.
- vii. Greenbelt development/Bio-diversity Conservation Plan to mitigate the impacts along the budget estimate towards ecology restoration and maintenance should be submitted.
- viii. Traffic studies may be carried out for transportation of the ore through road and pollution load exerted due this may be furnished and be submitted

**Day 2: 07<sup>th</sup> August, 2020**

**35.4.1. Construction of Residential Township at village Narendrapur, District Dhenkanal (Odisha) by M/s Tata Steel BSL Ltd. - Reconsideration for Terms of Reference [Proposal No: IA/OR/IND/68669/2017 dated 13.09.2017] [F. No. 23- 128/2018-IA.III (V)]**

Proposal for construction of Residential Township project of Tata Steel BSL Limited at Village - Narendrapur is in the Development plan area of Talcher-Angul-Meramandali-Development Authority (TAMDA), District - Dhenkanal and State Odisha

**Background of the Project:**

The former Bhushan Steel Limited had applied for EC for the residential township vide proposal No. IA/OR/IND/68669/2017 dtd. 13.09.2017. However, the application was made under category 3 (a) - Metallurgical Industries (ferrous) of EIA Notification 2006. As far as the processes are concerned, the residential township and steel plant have no linkage.

Therefore, Tata Steel BSL Limited vide its letter no. TSBSL/MoEF&CC/BS-01/2019-01/33, dated. 11th April, 2019 had requested MoEF to change the category of the project from 3 (a) Metallurgical Industries (Ferrous) to 8 (a) Building & Construction Projects. The proposal was discussed in the EAC in its 21st and 27th meeting and change of category was approved. Subsequently, Tata Steel BSL Limited has submitted revised Form – I, Form – IA & Conceptual plan for the Residential Township project.

The residential township is located outside the plant area with separate entrance for township without any linkage with the steel plant (Latitude-20°49'4.72"N Longitude-85°15'35.72"E). This has been verified and certified by the Regional Office of MoEF&CC, Bhubaneswar. The total plot area of the residential township is 201537.49 m<sup>2</sup> and built-up area 146577 m<sup>2</sup>. Approximately seventy-five percent of total construction has been completed and construction for balance area is under suspension for approval. The building plan has been approved by TAMDA vide letter no.984/TAMDA, dated 11/5/17/2017, FILE NO. BP/246/2005.

Member Secretary apprised EAC (violation) that project was earlier considered in the 21st, 27<sup>th</sup> and 32<sup>nd</sup> EAC meetings. EAC in the 32<sup>nd</sup> meeting deliberated on the information (revised Form 1, revised PFR and annexures etc) submitted by the PP and after detailed deliberations on the proposal in terms of the provisions of the MoEF&CC Notification dated 14th March, 2017, confirmed the case to be of violation of the EIA Notification, 2006 and recommended for the grant of Terms of Reference.

Thereafter recommendations of the EAC were sent to Infra sector for processing on file for grant of ToR. While processing the case for grant of ToR, infra sector observed following discrepancies in the submission of the PP and referred the case back to violation sector for further necessary action.

- Number and types of blocks
- Power Requirements
- Parking Provisions
- Source of water Requirement
- Details on the use of waste water and RWH TANKS
- Total nos. of Dwelling units
- Source of Power

Accordingly, proposal is listed in the present meeting (35<sup>th</sup>). Project Proponent made the detailed presentation before the EAC on the above discrepancies and informed the following:

- i. Plot area 201537.49 m<sup>2</sup> (49.801 acres). Proposed Total Ground Coverage 38817.77 m<sup>2</sup> (19.3 % of total plot area). Total Built-up Area = 146577 m<sup>2</sup>. Maximum number of floors of the Buildings = Basement + Ground + 12. Proposed F.A.R = 0.5, Approved FAR: 0.5 Total Nos. of main Dwelling Units proposed = 1442. Total parking area provided= 61894.83 m<sup>2</sup> (42.2% of Built up area). Total no. of ECS Provided is 1934.
- ii. Landscape Area is 60589.2 m<sup>2</sup> (about 30.1 % of the plot area). Area of Internal roads is 36145.7 m<sup>2</sup> (17.9% of total plot area), Total Parking Provided in (B+G +open parking] is 61894.83 m<sup>2</sup>
- iii. Types of Buildings, number of blocks and dwelling units in Residential Township: There will be total 80 nos. of blocks having total 1442 dwelling units. Different types of houses proposed are as given below:

- 35 nos. of blocks of G+1 type for President/VP, Sr. GM & GM level of employees.
- 3 nos. of blocks of B+G+3 type for DGM level of employees.
- 15 nos. of blocks of G+3 type for Sr. DGM, Manager, Sr. Manager & Dy. Manager level of employees.
- 4 nos. of A&B blocks of B+G+9 type high rise buildings.
- 4 nos. of C&D blocks of B+G+12 type high rise buildings.
- 9 nos. of F blocks of B+G+8 type high rise buildings.
- 4 nos. of G+3 type for DET/MTE level of employees.
- One block of G+1 type building for bank.
- One block of G type building for Utility facilities (School, Market, etc.)
- One block of B+G+2 type building for Utility facilities (Restaurant, Shops, etc.)
- One block of G+5 type building for Club, Hospital & Office & Town admin
- One Temple of B+G type
- One block for basement four-wheeler parking.

**Power requirement and source:** The average power consumption load for the Township project is approx. 0.8 MWH. The power consumption load per square foot is 0.507watt. The power supply is being sourced from TSBSL's power plant. There is provision of (1 x 180 KVA + 1x250 KVA) DG set for power back up in the Residential area. Solar lighting is also planned for common areas and roads. Through solar lights, about 13200 KWH/Month of energy will be conserved.

**Parking Provision:** Area of 61894.83 sqm (42.2 % of total built up area) has been proposed for parking. ECS is 1934.

**Source of water Requirement:** The daily fresh water requirement for the township has been estimated to be approximately 995 KLD, which will be met from TSBSL's water reservoir

**Details on the use of waste water and RWH TANKS:** There will be generation of about 896 KL of waste water per day. The same will be treated in the STP (1000 KL capacity) and the treated effluent will be used for horticulture, fire hydrant line and low end applications in the steel plant. Proposal is there to reuse treated water also for toilet flushing. As regard to RWH, 558.97 m<sup>3</sup> /day of roof top rainwater is harvested through 1 no of collection tank cum de-silting chamber and the water is finally, discharged to TSBSL's water reservoir. Further, 976.53 cum/day of storm water is being treated through pre-treatment system consisting of two chambers for settling and for removal of oil & grease. The treated water is discharged outside after conforming to standard

**Status of the Project:**The total plot area of the residential township is 201537.49 sqm and built-up area 146577 sqm. Approximately seventy-five percent of total construction has been completed and construction for balance area is under suspension, which will be completed after obtaining EC from MoEF&CC.

**Observation and recommendations of the EAC in the present meeting (35<sup>th</sup> )**

EAC observed that project was last considered in the 32<sup>nd</sup> meeting and project was recommended of ToR. Later, matter was referred to the Infra sector for processing the proposal on file for grant of ToR. While processing the case for grant of ToR, infra sector observed above mentioned discrepancies in the submission of the PP. EAC took it seriously and warned the Consultant for

ambiguity in their submission. EAC deliberated on the information submitted by the PP (**Revised Form-1, Form-1A & Conceptual plan**) and **reiterated** the recommendations made in 32<sup>nd</sup> EAC meetings held on 22nd - 23rd April, 2020 to the project under consideration.

**35.4.2. JalagamVengal Rao Opencast - I Expansion Project of annual production of 2.50 MTPA at Village Ayyagaripeta, Mandal Sathupalli, District Khammam (Telangana) by M/s The Singareni Collieries Company Limited- For Environmental Clearance**  
**[IA/TG/CMIN/152625/2017 dated 07 Jul 2020][F. No. 23-77/2018-IA (III)]**

**Details submitted by the Project proponent:**

JalagamVengal Rao Opencast-I Expansion Project of SCCL is located in Kothagudem area, Village Ayyagaripeta, Mandal Sathupalli, District Khammam of Telangana State. It is an existing opencast coal mine project with a production capacity of 2.0 MTPA (2.5 Mtpa peak) in 547.08 area and was granted EC vide letter dated 27.07.2007. The project has exceeded the EC production capacity since 2007-08. In 2013, SCCL submitted an application in Form-I to MoEF&CC, to obtain EC for the enhanced capacity of 4.50 MTPA from the EC sanctioned capacity of 2.50 MTPA. Subsequently the project proposal was delisted by MoEF&CC.

Subsequently, as per the MoEF&CC notification S.O. 804(E), Dt.14.03.2017, Form-1 was submitted for proposed expansion of the project from 2.50 Mtpa to 5.00 Mtpa in an area of 544.81 ha, with the same name under violation category. The proposal was deliberated in 8<sup>th</sup> meeting of EAC for the violation of EIA Notification, 2006, held on 13<sup>th</sup> -14<sup>th</sup> June, 2018 for issue of ToR. Affidavit was submitted as per the OM dated 30.05.2018 and accordingly MoEF&CC issued Terms of Reference vide F.No. 23-77/2018-IA (III), dated 8<sup>th</sup> August, 2019 for the proposed expansion of JalagamVengal Rao Opencast-I Expansion Project. Subsequently as per the issued ToR, Draft EIA/EMP report was prepared and Public hearing was conducted on 14<sup>th</sup> February, 2020.

**Salient features of the Project**

1. Name of the Project :- JalagamVengal Rao Opencast-I Expansion Project
2. Name of the Company, Address &E-mail :-  
The Singareni Collieries Company Limited  
B. Bhaskara Rao,  
Director (Planning & Projects)  
Singareni Collieries Company Limited  
Kothagudem Collieries - 507101  
[dpp@scclmines.com](mailto:dpp@scclmines.com)
3. If a Joint venture, the names & addresses of the JV partners :- No
4. Latitude and Longitude of the project: - Latitudes: 17°11'28.4" to 17°12'42.87" (North)  
Longitudes:80°46'44.99" to 80°49'26.53" (East)Survey of India Topo sheet: 65 C/16
5. Whether the Project is in the Critically Polluted Area (CPA) : No
- 6 Cost of the project: Rs. 106.76 Crores



7. Employment generated / to be generated: 816 (Permanent - 416 and temporary - 400)
8. Benefits of the project :- To meet the coal requirements of thermal power plants of Telangana State.
9. Whether new or Expansion project, If expansion: Expansion Project from 2.50 Mtpa to 5.00 Mtpa
- 9a If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006 Not applicable
- 9b If expansion, please indicate the number and date of the Certified Compliance Report of Regional office of the MoEF :- Letter No. EP/12.1/583/AP/1778, Dt.11th Nov, 2019.
10. No. and Date of ToR/and revised ToR, if any, letter issued by MoEF (if this is a case for EC): - No.23-77/2018-IA(III) Dt. 08th August, 2019
11. No and Date of EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so what specific reconsideration(s) being sought by the proponent)Not Applicable
12. If the project was considered in EAC, Pl give dates of the meeting (s): 8th meeting of EAC on 13th–14th June, 2018 for ToR
13. Type of Mine: (Opencast / Underground / **mixed**: Opencast Coal Mining Project.
14. Capacity of the mine applied for:5.00 MTPA
15. ML Area: 544.81 ha
16. Date of approval of mine plans, Status & date 17.11.2014 , MP & MCP approved by MoC, GoI Vide Lr.No. 13016/2/2006-CA-II.
17. Date of Board's approval: 10th July, 2013. Approved vide minute No. 513:5.20
18. Date of Ground Water Clearance and surface water approval: 06th July, 2007 Letter No.13019/Hg.II(1)/06.
19. Ground Water Clearance for JVR OC Mine (I&II Expansion) of 10 Mt was applied vide Lr.No.KGM/ENV/405/2019/149,dt.07.11.2019.
20. Existing Ground water level in (M) Pre-Monsoon : From 3.48 To 11.85 (Depth from surface) Post Monsoon : From 2.62 To 10.15 (Depth from surface)
21. Date of mine closure approval: 17.11.2014 MP & MCP Approved by MoC, GoI Vide Lr.No. 13016/2/2006-CA-II.
22. Any river / Nallaha flowing near or adjacent to the proposed mine. If yes, please give details :- No

## Details of Mine Lease :

1. JVR OCP-I Mining Lease for 383.05 ha  
Date of entering into original lease deed: 23rd Mar, 2005  
Date of expiry of original lease deed: 22nd Mar, 2025
2. JVR OCP-I Expansion Mining Lease for 136.50 ha  
Date of entering into original lease deed: 10th Nov, 2008  
Date of expiry of original lease deed : 9th Nov,2028

## Technical Details

### 23. Geological Reserve:

- i. Total Geological Reserves: 57.83 million tonnes
- ii. Mineable reserve: 50.90 million tonnes
- iii. Extractable Reserves: 50.90 million tonnes
- iv. Percent (%) of extraction: 88.00 %
- v. Range of ground water level Pre monsoon: 3.48 m to 11.85m (Depth from surface)  
Post monsoon : 2.62 m to 10.15 m  
(Depth from surface)
- vi. Total estimated water requirement 1306 m<sup>3</sup>/day
- vii. Details of intersecting ground water level 26.56 m

### 24. Details of Deposits:

- i. Depth of the ore body 25 to 150 m
- ii. Grade of ore G9 and G13
- iii. Stripping ratio 1 : 3.32

### 25. Method of mining: Mechanized opencast method.

### 26. Life of mine: 1 year from 2019-20

**27. Whether ambient air quality seasonal data has been documented. If so from which season to which season and whether the results are within the prescribed limits** Yes.  
From March 2018 to May 2018 (Summer season) and the results are within the prescribed limits.

**28. Whether the monitoring report of earlier EC from MoEF Regional Office has been obtained, in case the proposal is for expansion.** Yes., Certificate No. F.No EP/12.1/583/AP/1778, dated 11<sup>th</sup> November, 2019.

### 29. Details of O.B.

- i. External OB dumps Present
- ii. No of OB dumps One
- iii. Area (in ha) 130.39
- iv. Height 90 m above Ground Level
- v. Quantity (in M.Cu.m) 38.49

- vi. Year of back filling 1
- vii. No. of OB dumps reclaimed 1
- viii. If garland drains and settlement facility for runoff created Yes
- ix. Whether runoff water being utilized Run-off water from OB dumps is being let out into nearby tanks for agriculture purpose through settling ponds.

**30. Details of Internal Dumps**

- i. Number of internal dumps One
- ii. Area (ha) 143.60
- iii. Height 60 m
- iv. Quantity (in MCum) 126.03

**31. Utilization potential of wastes:**

- i. Within the mines: Overburden will be dumped in the earmarked dumping areas and top soil will be spread on the dumps and plantation will be raised.
- ii. Outside mines Nil
- iii. Efforts made by proponent Nurseries are established and native species are raised and planted on the OB dumps.

**32. Details of final Mine Voids:**

- i. Area (ha): 164.86
- ii. Depth 150 m

**33. Details of Quarry**

- i. Total Quarry area (ha) 371.02
- ii. Back filled quarry area of .....ha shall be reclaimed with plantation: 143.60
- iii. A void of ...ha at a depth of...m which is proposed to be converted into a water body: A void of 164.86 ha at a depth of 150 m is proposed to be converted into a water body
- iv. Green belt created in ha. : 318.90

**34. Details of Land usage**

- i. Pre-mining

S.No.	Description	Land (ha)
1	Forest land	380.52
2	Agricultural land	101.93
3	Waste land	52.36
4	Other land	10.00
	Total	544.81

- ii. Post- Mining

S. No.	Description	Land Use (ha)			Total
		Plantation	Water body	Public / Other	

				Use	
	External OB dump	112.37	-	-	112.37
(a)	Excavation (Backfilled area)	143.60	-	-	143.60
(b)	Excavation (Void area)	-	164.86	-	164.86
(c)	Safe zone including Drains	46.39		34.19	80.58
	Service buildings, CHP & sub-station		-	18.14	18.14
	Road diversion	-	-	15.26	15.26
	Colony/township	-		0	0
	TAL	302.36	164.86	59	514.81

iii. Core Area (Present Land Use)

Description	Forest land	Non Forest land	Total
Excavation Area(Including Drains etc.)	355.14	15.88	371.02
External dump yard	-	130.39	130.39
Service buildings, CHP & sub-station	15.96	2.18	18.14
Road diversion	9.42	5.84	15.26
Colony/township (To be Acquired)	-	10.00	10.00
Total Land	380.52	164.29	544.81

**35. Details of Forest issues :**

- i. Total forest area involved (in ha) for mining lease 380.52
- ii. Total broken forest area: 380.52
- iii. Status of Forest Clearance and extent of forest land diverted in ha.  
Total forest area of 380.52 ha was diverted.
  - 244.02 ha vide Lr.No.8-129/2003-FC dt.02-02-2005
  - 136.50 ha vide Lr.No.8-56/2008-FC dt.03-07-2012.
- iv. Is there any National Park, eco-sensitive Zones, within 10 km radius? If so, give the details. No
- v. Extent of forest land in the project (including safety zone and all types of forest land) (in ha) 380.52
- vi. Total Forestland for which Stage-I FC is available (give area in Ha), provide breakup of this area in following format: NA (Stage-II FC for entire forest land is available).
- vii. Balance forest land for which Stage-I FC is not available (give area in Ha) Nil
- viii. Details of wild life issues involved, if any. If so, whether WL management plan has been prepared and pl indicate the status: A Wildlife Conservation & Mitigation Plan for Schedule-I species has been prepared for an amount of Rs. 2.57 Crores.

- ix. Whether schedule -I species, if yes conservation plan is approved by CWLW: Submitted for Rs. 2.57 Crores and approval is awaited.

### 36. Costs of the project

- i. Total capital Cost: ₹ 106.76 Crores  
ii. Cost of Production: ₹ 554 per Tonne  
iii. Sale Price: ₹ 1851 per Tonne  
iv. CSR cost: As per Companies Act, 2013 and Companies (Corporate Social Responsibility Policy) Rules - 2014, SCCL is spending 2% of its average annual net profit calculated in accordance with the provisions of Section 198 of the Act made during three immediately preceding financial years in pursuance of its CSR policy on CSR activities each financial year. In addition, an amount of Rs. 84.31 crores (from February 2016 – April 2019) was deposited with District Collector, Bhadravri Kothagudem, as District Mineral Fund (DMF) for taking up CSR works.  
v. R&R Cost: Nil  
vi. No of PAFs: Nil  
vii. Cost for implementing EMP Capital: ₹ 9.50 Crores; Recurring : ₹ 2.87 Crores per Annum

### 37. Details of villages/habitation in mine lease area:

- i. Inside the lease Nil  
ii. Surrender by lease Nil  
iii. Extent of cropland acquired/ being acquired in ha. 101.93

### 38. Details of transportation of coal:

- i. In pit Dumpers  
ii. Surface to siding: Conveyor  
iii. Siding to loading: From JVR OC – I Exp. to RCHP by Road and from there to end users by Rail.  
iv. Quantity being transported by Road/Rail/conveyer /ropeway 5 Mtpa  
v. Proposed change in transportation means if any, give details : Proposed to change the road transport from the project to end users by rail mode.

### 39. Details of reclamation

- i. Reclaimed external OB dump in ha. 112.37  
ii. Internal Dump in ha 143.60  
iii. Green belt in ha 46.39  
iv. Density of the tree plantation (in no.) 2500 per hectare  
v. Void (ha) at a depth of (m) proposed to be converted into water body  
164.86 ha at a depth of 150 m  
vi. Other in ha (such as excavation area along ML boundary, along roads and infrastructure, embankment area and in township located outside the lease etc.)  
-  
vii. Agriculture and horticulture Nil  
viii. Fisheries Nil

ix. ECO Tourist/recreation spot Nil

### Legal Issues

**40. Any court cases pending. If so, please provide a list with details as annexure.**

- (i) Environment (Protection) Act
- (ii) Air (P&CP) Act
- (iii) Water (P&CP) Act
- (iv) MMRD Act
- (v) The Factories Act
- (vi) Other land R&R related cases Nil

**41. Any violation cases pending. If so, please provide a list with details as annexure** As per the ToR, State Govt/SPCB has to take action against the Project Proponent under the Provisions of the E(P) Act, 1986. State Govt. directed SPCB to take action in this regard. Action from SPCB is awaited.

**42. Give the details of actual production vis-à-vis sanctioned capacity since inception of mine in following format:**

No.	Financial Year	As per EC (Mtpa)	Actual Production
1.	2007-08		1.917
2.	2008-09		2.679
3.	2009-10		3.573
4.	2010-11		3.529
5.	2011-12		4.135
6.	2012-13		3.963
7.	2013-14		4.898
8.	2014-15		4.500
9.	2015-16		4.545
10.	2016-17		5.219
11.	2017-18		4.955
12.	2018-19		4.710

### Public Hearing Issues

**43. Date and Place of Public hearing:** 14<sup>th</sup> February, 2020; Place: JVR Government college, Sathupalli, presided over by Asst. District Collector

### Consultant

Name of the consultant who prepared the EIA/EMP report: Environment Protection Training and Research Institute (EPTRI), Hyderabad.

Whether the consultant has been accredited by the QCI and NABET as per the MoEF OM dated 2nd December, 2009. Yes

Certificate No. NABET/EIA/1922/RA0143, Dated 06.12.2019, valid up to: 29th May,2022.

### **Observation and recommendations of the EAC in the present meeting (35<sup>th</sup>)**

Project proponent along with the consultant made the detailed presentation before the EAC on the project proposal. After detailed presentation by the PP, EAC observed that instant project is for 5.00 Mtpacoal production in an area of 544.81 ha. Earlier EC was granted letter dated 27.07.2007 to the project for production capacity of 2.0 MTPA (2.5 Mtpa peak) in 547.08 area. The project has exceeded the EC production capacity since 2007-08 hence violated the provisions EIA Notification read with subsequent amendments.

EAC further observed that total mining lease area is 544.81 ha (Forest land: 380.52; & Non Forest land: 164.29). JVR OCP-I Mining Lease for 383.05 ha granted vide G.O. Ms. No. 51, dated 21st February, 2005, valid up to 22nd March, 2025 (20 years). JVR OCP-I Expansion Mining Lease for 136.50 ha granted vide G.O. Ms. No. 115, dated 13th May, 2008, valid up to 09th November, 2028 (20 years). The project is in operation and entire land for mining operations is already acquired and no additional land is required for this project and a balance extractable reserve is 1.30 Mt.

EAC further noted that Forest land of 380.52 ha was already diverted in two phases, i.e. 244.02 ha and 136.50 ha vide order MoEF&CC, GOI, F.No.8-129/2003-FC dated 2nd February, 2005 and vide order F.No.8-56/2008-FC, dated 03rd July, 2012 respectively. There are no Wild life corridors, ESZs, ESAs, NPA, WLS, Critically Polluted areas within 10 km of the project. EAC also noted that PP has submitted the total budgetary provision of Rs. 2626.00 lakhs towards Remediation plan (Rs. 678.00 lakhs), Natural Resource Augmentation plan (Rs 506.00 lakhs) and Community Resource Augmentation Plan (Rs 1442.00 lakhs).

EAC after detailed deliberation on the information submitted by the PP (Form 2, EIA/EMP report, EC compliance report, PH details, kml file etc) and as presented, **deferred** the project for want of following information:

- i.** Submission of detail land requirement details as different figures mentioned in EIA/EMP report and EDS reply with clarification and also clarify whether EC required for 544.81 Ha or 534.31 Ha
- ii.** Plan showing details of Adjacent mining blocks
- iii.** Location of air quality monitoring stations alongwith the distance from the project site and direction wrt to predominant wind direction.
- iv.** Impact prediction of drawdown of the ground water on the neighbourhood and mitigation measures to be submitted.
- v.** Details of excess quantity of Topsoil extracted during violation period with its utilization details
- vi.** Damage cost of water environment *viz* rain water harvesting system and check dams to be revised as suggested by the committee. Damage cost of land environment taking into consideration top soil management and Wildlife conservation plan should be added.
- vii.** Similarly, damage due to noise should be assessed based on the LEQ day/ night and the impact on core zone workers – cost of PPE's, the cost of barricades and additional green belt cost surrounding the project as noise barrier.
- viii.** Based on above calculation Damage assessment cost shall be revised and accordingly, Remediation, Natural and Community Resource Augmentation plan shall be submitted

- ix. It was observed that during PH the project capital cost was mentioned as Rs 131.06 Crores and now in Final EIA/EMP report project capital cost was mentioned as Rs 106.76. Justification for the reduction in the capital cost of the project with certificate from concern Finance department of the company. Based on the above revised cost, CER cost shall also be revised accordingly.
- x. Copy of presentation made during the Public Hearing by the EIA consultant, it was observed that damage assessment details are not covered in PH minutes.
- xi. Greenbelt development/Bio-diversity Conservation Plan to mitigate the impacts along the budget estimate towards ecology restoration and maintenance should be submitted

**35.4.3. Expansion of Common Effluent Treatment Plant (CETP) of 9 MLD with addition of 100 KLD Spent Acid Neutralization Plant (Existing) & 6 MLD Effluent Recycling and Reject Management System located at Bhiwadi, Rajasthan by M/s Bhiwadi Jal Pradushan Niwaran Association – Amendment of Terms of Reference [F.No. 23-22/2019-IA.III (V) ]**

**Details submitted by the Project Proponent**

The project involves expansion of construction of Common Effluent Treatment Plant (CETP) with total capacity of Total 9 MLD with addition of 100 KLD Spent Acid Neutralization Plant (Existing) & 6 MLD Effluent Recycling and Reject Management System (Proposed) at Village: Bhiwadi, Tehsil: Tijara, District: Alwar, State: Rajasthan by M/s Bhiwadi Jal Pradushan Niwaran Association

The Common Effluent Treatment Plant (CETP) which is operated by Bhiwadi Jal Pradushan Niwaran Association (BJPNA) was initially operated by RIICO Ltd. This CETP was installed to treat industrial effluent of RIICO Ind. Area Bhiwadi

The said project/activity is covered under category “A” of item 7 (h) of Schedule to the EIA Notification, 2006 and requires prior EC from the EAC (Violation), MoEFCC, New Delhi. As interstate boundary of Haryana and Rajasthan lies at approx. 1 KM from the project site.

Application was submitted online portal of MoEFCC Vide Proposal No:- IA/RJ/MIS/58979/2016 dated 13th September, 2016 for ToR. Terms of Reference (TOR) have been discussed and finalized by the Expert Appraisal Committee (Infrastructure -2) in its 10 meeting held on 24th - 25th October, 2016 for preparation of DEIA/EMP report. Terms of Reference (TOR) was granted on 28th Nov 2016. On the basis of Terms of Reference (TOR) Draft EIA report along with requisite fees were submitted RSPCB for conducting public hearing on 01.11.2017. Public hearing was conducted on 22.03.2018 by Regional Officer, RSPCB and during Public Hearing violation was detected.

Project was submitted under violation category on 13.04.2018 to MoEF&CC, New Delhi. Project listed in 25<sup>th</sup> meeting of Expert Appraisal Committee (violation) of EIA Notification, 2006 held on 30<sup>th</sup> August, 2019 for Terms of Reference. Terms of Reference (ToR) was granted by MoEF&CC vide File No: - 23-22/2019-IAIII dated: 29.10.2019. Final EIA/EMP report Submitted to MoEFCC, on 16th Jan., 2020.

Accordingly, proposal was considered in the 30<sup>th</sup> EAC meeting (violation) for Environmental Clearance held on 04.02.2020. EAC in the 30<sup>th</sup> meeting while appraising the project observed the following:



- i. The 100 KLD Spent acid treatment plant was not informed at the time of seeking ToRs for expansion of CETP from 6 MLD to 9 MLD and also not mentioned in Form-1 application.
- ii. Effluent recycling plant of 6 MLD and reject management system leading to zero liquid discharge was also not included in Form -1 application and also not brought to the notice of Ministry as well as the EAC at the time of seeking ToR for the expansion of CETP from 6 MLD to 9 MLD.

EAC after detailed and in view of above observation, advised PP to first seek amendment to the earlier ToR granted. Hence application submitted for environmental clearance recommended to be returned in the present form.

Project Proponent now have submitted the application in Form 3 for amendment in ToR dated 29.10.2019. Project Proponent alongwith the consultant (GRC (P) Ltd) made the detailed presentation before the EAC and interalia provided the following information:

Earlier Term of Reference was granted for Expansion of Common Effluent Treatment Plant (CETP) 9 MLD (Operational).100 KLD Spent acid treatment plant was not mentioned in earlier issued ToR. (Operational). Now, we are proposing 6 MLD Effluent Recycling and Reject Management System in addition to existing facility at project site.

### Salient features

S. No.	Project features	Description
1	<b>Project</b>	Expansion of Common Effluent Treatment Plant (CETP) 9 MLD with addition of 100 KLD Spent Acid Neutralization Plant (Existing) & 6 MLD Effluent Recycling and Reject Management System
2	<b>Site Area</b>	11,600 m <sup>2</sup> , Industrial land
3	<b>Power supply</b>	1,000 kVA
4	<b>Source of Power</b>	Jaipur Vidyut Vitran Nigam Limited (JVVNL).
5	<b>Solid/Hazardous Waste</b>	CETP Sludge = 25,000 kg/d Used Oil = 500 litre/year
6	<b>Total Manpower</b>	50 (Existing + Expansion)
7	<b>Water Requirement &amp; Source</b>	1000 Ltr/Day (For Drinking & Domestic Purpose) Source – Private Water Tanker
8	<b>Project Cost</b>	Project cost is 159.62 Cr (Existing+ Expansion).

Details of Configurations			
SL.No	Existing Configuration	Proposed Configuration	Final configuration After amendment

1	CETP 9 MLD , 100 KLD Spent Acid Neutralization Plant (Under Operation)	6 MLD Effluent Recycling and Reject Management System (Proposed)	Expansion of Common Effluent Treatment Plant (CETP) 9 MLD with addition of 100 KLD Spent Acid Neutralization Plant (Under Operational) & 6 MLD Effluent Recycling and Reject Management System (Proposed)
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EAC observed that PH was also conducted for Expansion of Common Effluent Treatment Plant (CETP) 9 MLD with addition of 100 KLD Spent Acid Neutralization Plant (Under Operational) & 6 MLD Effluent Recycling and Reject Management System (Proposed). EAC in the present meeting (35th) noted that PP has changed the earlier EIA consultant M/s Enviro Resources .

EAC after detailed deliberation on the information submitted (Form3) and as presented, **recommended** the proposal for amendment of ToR dated 29.10.2019 as mentioned in below table with following additional ToR:

SL.No	Existing Configuration as per ToR	Final configuration After Tor amendment
1	CETP 9 MLD , 100 KLD Spent Acid Neutralization Plant (Under Operation)	Expansion of Common Effluent Treatment Plant (CETP) 9 MLD with addition of 100 KLD Spent Acid Neutralization Plant (Under Operational) & 6 MLD Effluent Recycling and Reject Management System (Proposed)

1. Impact studies of 6 MLD Effluent Recycling and Reject Management System and 100 kld spent acid neutralization system shall be studied.
2. As the baseline data was collected by the earlier consultant therefore no objection certificate to be obtained from the earlier Consultant M/s Enviro Resources and validation of baseline data to be done by preest consultant while preparing the EIA/EMP report
3. In the Environmental Management Plan Chapter (9) of the EIA report, summarised account of significant impacts as identified under each component of the environment and their corresponding mitigative measures along with budgetary requirements and timelines for effective implementation and monitoring.

**35.4.4. Bandla Limestone mining project (M.L. Area 4.96 Ha) of M/s Friends Mineral, located at Mauza Shamah Pamta, Tehsil Paonta Sahib, District Sirmour, Himachal Pradesh – Environmental Clearance [IA/HP/MIN/136142/2018 dated 06.03.2020] [F. No. 23-263/2018-IA.III (V) ]**

Project proponent along with the consultant M/s Shivalik Solid Waste Management Ltd. made the detailed presentation on the project and inter-alia provide the following information:

M/s Friends Minerals Prop, Bandla Limestone Mine, resident of Ward No. 3, Adarsh Colony, Badripur, Paonta Sahib, Sirmour (HP)-173025, was granted mine lease for mining of limestone from hill slope, located at Mauza Shamah Pamta, Tehsil Paonta Sahib, District Sirmour, Himachal Pradesh over an area of 4.96 ha. Lease was sanctioned on 01.08.1985 in favour of M/s Friends Minerals for 20 years up to 31.07.2005 Renewal was applied 23.07.2007 for period of 20 years which was extended upto 31.07.2015. As per section -8A introduced by MMDR (Amendment) Act 2015, the mining lease has been extended upto 31.07.2035 vide letter no. Udyog – Bhu (Khani -4) Major -122/04-2327 dated 5.06.2015.

As per MoEF, New Delhi Gazette dated 14th September 2006 and amended thereafter, the mining project is categorized as category „A“ project due to the presence of Interstate Boundary of Uttarakhand and Himachal Pradesh within 5 km of the study area. The proposed project activity will be carried out from the Hill Slope located in district Sirmour. It has been proposed to collect 60,021 TPA (maximum) of limestone including waste within the area of 4.96 ha.

**Details submitted by the Project Proponent**

1. Name of the project:- Mining from Bandla Limestone Mine at Mauza: Samah Pamta, Tehsil Paonta Sahib, District Sirmour, Prop. M/s Friends Mineral.

2. Name of the Company, Address Tele No. & E-mail Head of organization :- Company Name: M/s Friends Mineral.

Address : Shri Chandra Mohan Sharma

Ward No. 3, Adarsh Colony, Badripur

Paonta Sahib, District: Sirmour, Himachal Pradesh- 173025

Telephone : 01795-260427, 260227, :

Email id : bandlalimestone@gmail.com

3. If a Joint venture, the names & addresses of the JV partners including their share :- Not applicable

4. Latitude and Longitude of the project :-

Latitude: 30035'40.01" N -30035'48.29" N

Longitude: 77042'5.77" E -77042'20.74" E

5. Whether the project is in the Critically Polluted Area (CPA):- No

6. Cost of the project:- Rs. 55 Lakhs

7. Employment generated/to be generated :- 33

8. Benefits of the project

- Improvement in social infrastructure.
- Health and safety
- Employment potential.

9. Whether new or expansion project. If expansion :NewProject (60,021TPA of limestone)
10. If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF. –
11. No. and Date of the ToR/and revised ToR, if any, letter issued by the MoEF (if this is a case for EC): ToR letter No. F. No. 23-263/2018-IA.III(V) Date 09-Oct-2019
12. No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent):- No
13. If the project was considered in EAC, Pl. give dates of the meeting (s) :- For Grant of TOR EAC meeting held on 19-20 September 2016, For Grant of TOR EAC (Violation ) meeting held on 29/03/2019  
For Grant of EC EAC (Violation) meeting held on 22/04/2020.
14. Type of Mine: (Open cast/Underground/mixed) Open-cast Mine
- Capacity of the mine applied for :- 60,021TPA including waste
  - ML Area 4.96Hectare
    - (i) As per block allotment :- 4.96Hectare
    - (ii) As per approved mine plan :- 4.96Hectare
15. Date of approval of mine plan, mine closure plan, status &date :- Scheme of Mining including Mine Closure Plan, Date of approval: 29July 2016, Status: approved
16. Date of Board's approval -----
17. Date of Ground water clearance and surface water approval:-Not Applicable
18. Existing Ground water level in(M) :-  
Pre-monsoon period 3.76 to 43.98 m bgl  
Post-monsoon period 2.98 to 37.35 m bgl
19. Date of mine closure approval :-----
20. Any river/ Nallah flowing near or adjacent to the proposed mine. If yes, please givedetails :- Giri River (7 km in SW direction)

<b>Details of Mine Lease-</b>			
<b>1. Date of entering into original lease deed.</b>	<b>1. Date of 1<sup>st</sup> lease renewal</b>	<b>1. Date of 2<sup>nd</sup> lease renewal</b>	<b>1. Date of 3<sup>rd</sup> lease renewal</b>
01.08.1985	23.07.2007	--	--
<b>2. Date of expiry of original lease deed</b>	<b>2. Whether renewal or deemed renewal</b>	<b>2. Whether renewal or deemed renewal</b>	<b>2. Whether renewal or deemed renewal</b>
31.07.2005	31.07.2015 (has been extended up to 31.07.2035 vide letter no. Udyog-Bhu (Khani- 4) Major-122/04-2327 dated	--	--

	05.06.2015		
	<b>3. Date of expiry of 1<sup>st</sup> lease renewal/ deemed renewal</b>	<b>3. Date of expiry of 2<sup>nd</sup> lease renewal/ deemed renewal</b>	<b>3. Date of expiry of 2<sup>nd</sup> lease renewal/ deemed renewal [also for subsequent renewals]</b>
	--	--	-

## TECHNICAL DETAILS

### 21. Geological Reserve

- (i) Total geological reserve: - 40, 65, 907 MT
- (ii) Mineable reserve: - 17, 66, 150 Tonnes
- (iii) Extractable reserve: -16,77,840 Tonnes
- (iv) Percent (%) of extraction: - ----
- (v) Range of ground water level:- , Pre-monsoon period 3.76 to 43.98 m bgl  
Post-monsoon period 2.98 to 37.35 m bgl
- (vi) Total estimated water requirement: - 4.8KLD (Tanker Supply from ChitliKhala natural spring)
- (vii) Details of intersecting ground water level:- No

### 22. Details of Deposits:- -

- (i) Depth of over body -
- (ii) Grade of ore -
- (iii) Stripping ratio –

### 24. Method of mining: - Open Cast manual mining

### 25. Life of mine: -28

### 26. Whether ambient air quality seasonal data has been monitored. If so, from which season to which season and whether the results are within the prescribed limits: Ambient Air Quality Monitoring was carried out during October to December 2016 further validated during 1st April, 2019 – 30th April, 2019, Summer season, Results were found within permissible limit

### 27. Whether the monitoring report of earlier EC from MoEF Regional Office has been obtained, in case the proposal is for expansion. :-EC has not been obtained

### 28. Details of O.B.

- (i) External OB dumps :- No
- (ii) No of OB dumps :- 2
- (iii) Area of each dump :- 3325 Sq.m. and 4000 sq.m.
- (iv) Height of each dump :- 5.5
- (v) Quantity (in MCm) of OB in each dump:- Total 0.006325
- (vi) Year of back filling :- 5
- (vii) No. of OB dumps reclaimed:- 2

- (viii) If garland drains and settlement facility for runoff created :- Proposed
- (ix) Whether runoff water being utilized :- Will be utilized in RWH

**29. Details of Internal Dumps:-Not Applicable**

- (i) Number of internal dumps:- 0
- (ii) Area of each dump :- 0.
- (iii) Height of each dump :- 0
- (iv) Quantity of wastes filled (MCm):-0

**29. Utilization potential of wastes Overburden**

- (i) Within the mines : Making Parapet walls and rehabilitation of benches
- (ii) Outside mines : Maintenance of PWD roads, approach road.
- (iii) Efforts made by proponent:-

**30. Details of final Mine Voids -**

- (i) Area :- 0
- (ii) Depth :- 0

**31. Details of Quarry**

- (i) Total quarry area :- 2.10 Ha.
- (ii) Backfilled quarry area of .....ha shall be reclaimed with plantation :- --
- (iii) Avoid of ..... ha at a depth of ..... m which is proposed to be converted into a water body :- --
- (iv) Green belt (Safety zone)created in ha :- 0.2

**32. Details of Land usage**

- (i) Pre-mining

S. No.	LAND USE	Other land Use	WITHIN ML AREA (Hectare)	OUTSIDE ML AREA (Hectare)	TOTAL (Hectare)
(1.)	WASTE LAND		4.96	0	4.96
(2.)	FOREST LAND		0	0	0
(3.)	GRAZING LAND		0	0	0
(4.)	AGRICULTURE LAND		0	0	0
(5.)	SURFACE WATER BODIES		0	0	0
(6.)	SETTLEMENTS		0	0	0
TOTAL			4.96	0	4.96

- (ii) Post- Mining

S. No.	LAND USE	Other LAND USE	Plantation (ha)	W)	Public	Un Disturbed (ha)	Total
(1.)	BUILT UP AREA (COLONY/OFFICE)		0	0	0		0
(2.)	TOP SOIL STORAGE		0	0	0		0
(3.)	INTERNAL OB DUMPS		0.73	0	0		0.73
(4.)	ROADS		0	0	0.306		0.306
(5.)	VIRGIN AREA		0	0	0		0
(6.)	Other	Undisturbed & Retaining Wall area	1.624	0	0		1.624
(7.)	EXCAVATION/QUARRY		2.10	0	0		2.1
(8.)	GREEN BELT		0.2	0	0		0.2
(9.)	EXTERNAL OB DUMPS		0	0	0		0
<b>TOTAL</b>			<b>4.654</b>	<b>0</b>	<b>0.306</b>	<b>0</b>	<b>4.96</b>

(iii)Core area :- 4.96 Ha

### 33. Details of Forest issues

- (i) Total forest area involved (in ha) for mining lease :- No forest land involved
- (ii) Total broken forest area:---
- (iii) Status of Forest Clearance and extend of forest land diverted in ha :- --
- (iv) Is there any National Park, eco-sensitive Zones, within 10 km radius? If so, give the details:-**None**
- (v) Extent of forest land in the project (including safety zone and all types of forest land) (in ha) :- Not applicable
- (i) Details of wild life issues involved, if any. If so, whether WL management plan has been prepared; pl. indicate the status :- Not Applicable
- (ii) Whether schedule-I species, if yes conservation plan is approved by CWLW? :-Yes, conservation plan for Leopard, attached with EIA report.

### 34. Costs of the project

- (i) Total capital Cost :- Rs 55 lakhs
- (ii) Cost of Production :- 250 rs./tons
- (iii) Sale Price :-270 rs./tons
- (iv) CSRcost :- Rs 3 Lakh
- (v) R&R Cost :- Not Applicable
- (vi) No of PAFs :- Not Applicable

(vii) Cost for implementing EMP :- 7.74 lakh (Capital) 9.4 Lakh (Recurring)

**35.** Details of villages/habitation in mine lease area :- None

- (i) Inside the lease --
- (ii) Surrender by lease --
- (iii) Extent of cropland acquired/ being acquired in ha --

**36.** Details of transportation of mineral

- (i) In pit :None
- (ii) Surface to siding :None
- (iii) Siding to loading :None
- (iv) Quantity being transported by Road/Rail/conveyer /ropeway :- ~ 240 Tonnes per day
- (v) Proposed change in transportation means if any, give details:-Existing mode of transportation will be used

**37.** Details of reclamation

Mining of Limestone and overburden will be backfilled at the end of conceptual plan.

- (i) Afforestation shall be done covering an area of: 0.45 ha at the end of mining. This will include:

Over 7.5 m strip. Area: 0.25, Saplings: 250 Over Bench Area: 0.20, Saplings: 200

- (ii) Reclaimed external OB dump (in ha) --
- (iii) Internal dump(inha) --
- (iv) Green belt (in ha)- 0.25 ha
- (v) Density of tree plantation (in no of plants)- 10 trees per 100 sqm.
- (vi) Void (in ha) at a depth of (in m )which is proposed to be converted into water body:- No rain water storage is proposed
- (vii) Others inha (such as excavation area along ML boundary, along roads and infrastructure, embankment area and in township located outside the lease etc):- None
- (viii) Agriculture and horticulture :- None
- (ix) Fisheries:-None
- (x) ECO Tourist/recreation spot :- None

## LEGAL ISSUES

**38.** Any court case pending. If so, please provide a list with details as annexure --

Environment (Protection) Act--

Air (P&CP) Act --

Water (P&CP) Act --

MMRD Act --

The Factories Act --

Other land R&R related cases :- No R&R related case against the project.

**39.** Any violation cases pending. If so, please provide a list with details as annexure. Give details of actual production vis-à-vis sanctioned capacity since the inception of mine in following format or since 1993-94 as applicable: --

**40. Give details of actual production vis-à-vis sanctioned capacity since the inception of mine in following format or since 1993-94 as applicable:**

	Year	Actual production (MTPA)	Area in Ha	Excess production beyond the EC sanctioned capacity
--	------	--------------------------	------------	---



1985-86	222.00	4.96	EC not sanctioned
1986-87	4232.630	4.96	EC not sanctioned
1987-88	5889.120	4.96	EC not sanctioned
1989-90	3486.460	4.96	EC not sanctioned
1990-91	5655.250	4.96	EC not sanctioned
1991-92	3951.200	4.96	EC not sanctioned
1992-93	1457.89	4.96	EC not sanctioned
1993-94	5195.900	4.96	EC not sanctioned
1994-95	13926.00	4.96	EC not sanctioned
1995-96	14288.8	4.96	EC not sanctioned
1996-97	10869.400	4.96	EC not sanctioned
1997-98	3637.00	4.96	EC not sanctioned
1998-99	15851.100	4.96	EC not sanctioned
1999-2000	21545.100	4.96	EC not sanctioned
2000-2001	45956.200	4.96	EC not sanctioned
2001-02	20689.400	4.96	EC not sanctioned
2002-03	23357.300	4.96	EC not sanctioned
2003-04	22362.700	4.96	EC not sanctioned
2004-05	17189.600	4.96	EC not sanctioned
2005-06	4968.600	4.96	EC not sanctioned
2006-07	Nil	4.96	EC not sanctioned
2007-08	9862.900	4.96	EC not sanctioned
2008-09	8403.4	4.96	EC not sanctioned
2009-10	12250.500	4.96	EC not sanctioned
2010-11	7960.4	4.96	EC not sanctioned
2011-12	6939.5	4.96	EC not sanctioned
2012-13	7921.0	4.96	EC not sanctioned
2013-14	Nil	4.96	EC not sanctioned
2014-15	7609.6	4.96	EC not sanctioned
2015-16	2104.8	4.96	EC not sanctioned
2016-17	21998.3	4.96	EC not sanctioned
Production continued after 2016 with valid consent from HPSPCB vide letter no. HPSPCB/PCB-ID-14970-18127-29 dated 03.11.14, which was valid till 31.03.2017).			

## PUBLIC HEARING ISSUES

**41. Date and Place of public hearing :- 19.04.2017 at Community Centre, Village: Pamta, Tehsil: Paonta Sahib, Sirmaur, H.P.** Under the Chairmanship of Additional Deputy Commissioner Sh. Harbans Singh

### Consultant:

Name of the EIA consultant who prepared the EIA/EMP report. :-M/s Shivalik Solid Waste Management ltd.

Whether the consultant has been accredited by the QCI and NABET as per the MoEF OM dated 2nd December, 2009. :-Yes NABET certificate No. NABET/EIA/1922/RA 0128 rev

### Observation and recommendation of the EAC in the earlier meeting:

Project was last considered in the 32<sup>nd</sup> EAC meeting held on 22nd - 23rd April, 2020. EAC observed that the information/ data submitted to the Ministry in the form of Annexure IV and Form II are variable and misleading. EAC took it seriously and advised PP to submit the revised Form 2 and Annexure IV as per the format. EAC after detailed deliberation **returned** the proposal in present form for want of following information:

- i. Base line concentration of PM2.5, SO2, NOx is mentioned zero in the column 18 of Form 2. Correct values shall be submitted in the revised Form 2 application.
- ii. Copy of approved Mining plan with covering letter to be uploaded along with Form 2 Application.
- iii. Copy of surface water permission letter and also NOC from state ground water department.
- iv. Pre mining and Post mining land use plan shall be submitted in the Annexure IV along with the comparison table.
- v. Details of Geological reserves/mineable reserves are different in Form 2 and Annexure IV. Correct values shall be submitted in the revised Form 2 application and Annexure IV.
- vi. Detail of grade of Ore and Stripping ratio to be provided in Annexure IV.
- vii. Information regarding external and internal dumps is different in Form 2 and Annexure IV. Submit the correct and uniform information in both Form 2 and Annexure IV.
- viii. Details of top soil management, final mine void and transportation shall be submitted in the Form 2 application .
- ix. Justification for the submitted capital cost (Rs 55.0 lakhs) of the project. Revised cost should be submitted considering the cost of land and all infrastructures required for running the mine.
- x. DSR as per the Ministry Notification dated 25.07.2018 shall be uploaded along with Form 2 application.
- xi. Details regarding no ground water intersection during the mining activity.
- xii. As per the ToR, total excavation is 63181 TPA (60021 TPA Limestone and 3160 TPA Waste) whereas in the EIA report total excavation is 60021 TPA including waste. Clarify?
- xiii. Waste generation (1264 Cu.m ) to be mentioned in TPA in Form 2 application
- xiv. Detailed presentation on TOR compliance. 15. Details regarding water balance (flow chart) including alternative sources of water through rain water harvesting measures.
- xv. Status of credible action.
- xvi. Public hearing issues raised and commitment made by Project proponent along fund provision and time frame in tabular form to be submitted.
- xvii. Point wise action plan for ToR Condition No 15
- xviii. Transportation details and use of the mineral (Lime stone) with traffic impact assessment study to be submitted
- xix. Pre-mining and Post mining land use details to be submitted
- xx. Submission of Plagiarism check list declaration by EIA consultant Organisation .
- xxi. Comparison of the results of AAQ during 2016 and 2019 for all the parameters are shown almost same, reason may kindly be given.
- xxii. Results of groundwater monitoring Oct-Dec,2016 and 2019.
- xxiii. Please check calcium and magnesium conc levels
- xxiv. Surface water monitoring 2016, EC mentioned as 210&215 Ms. it should be in micro SEIMENS per centimetre
- xxv. Chromium should be as Cr+6
- xxvi. Biological Oxygen Demand, should be written as Biochemical Oxygen Demand
- xxvii. Percentage of Silica is not given as asked in the mineralogical and chemical composition
- xxviii. Detailed Hydrogeological report as per GEC 2015.

- xxix. Wild Life Conservation plan .
- xxx. LULC comparison and detailed analysis.
- xxxii. Revised damage assessment vis-à-vis remediation and NRAP/CRAP as per the quantity and period of violation as deliberated earlier.
- xxxiii. Plantation plan/budget as presented in the Slide 17 (Remediation Plan) and Slide 32 (EMP Budget) needs to be addressed with detail plan for plantation with suitable species and maintenance for 5 yrs( as only 250 plant for mine boundaries and 300 plants for road-side plantation with a maintenance cost of Rs. 30.00/yr seems to be inadequate) as per statutory norms;
- xxxiiii. Complete EIA Report with its structure to be submitted.

**Observation and recommendation of the EAC in the present meeting(35<sup>th</sup>):**

EAC deliberated on the information submitted by the PP (EIA/EMP report, PH issues, Form 2, Additional information, Annexures etc) and **deferred** the project for want of following information:

- (i) Revised Capital cost shall be submitted.
- (ii) Revised damage cost considering for all the environmental attributes and profit accrued during the violation period.
- (iii) Pre-present and post mining land use plan to be submitted.
- (iv) Details of Schedule I species in the study area to be submitted.
- (v) Approved WLC by Forest authorities and the budget allocated.
- (vi) Greenbelt development/Bio-diversity Conservation Plan to mitigate the impacts along the budget estimate towards ecology restoration and maintenance should be submitted.

**35.4.5 Cluster XVII including Kalyaneshwari OCP Coal Mining Project of capacity 4.0 MTPA in ML area 1397.18 ha of M/s Bharat Coking Coal Ltd., located at District Burdwan, West Bengal - Further consideration for Environmental Clearance [IA/WB/CMIN/ 85880 /2018 dated 03.12.2018][F. No.J-11015/373/2013- IA.II(M)]**

The Project Proponent and the accredited consultant M/s. CMPDIL, in the present meeting made a detailed presentation on the salient features of the project.

**Details submitted by the Project Proponent**

The project involves manufacturing/extraction of Coal of production capacity 4.0 MTPA by M/s Bharath Coking Coal Limited in an area of 1397.18hectare at Damagoria village, Taluka /Mandal Burduwan, District West Bengal (State). The said project/activity is covered under Category A of item 1(a) of the Schedule to the EIA Notification, 2006, and requires prior EC from the MoEF&CC based on the appraisal by Expert Appraisal Committee. No forestland is involved.

Name of the Company, Address Tele No.& E-mail Head of organization:

<b>Corporate Office</b>	<b>Project Office</b>
Bharat Coking Coal Limited, Koyla Bhawan, PO: BCCL Township,	General Manager BCCL, Chanch/Victoria Area PO- Barakar.

Dist: Dhanbad, State: Jharkhand, PIN: 826005. E-mail: <a href="mailto:gmenv.bccl@coalindia.in">gmenv.bccl@coalindia.in</a>	Dist. - Burdwan. West Bengal – 713324 E-mail: <a href="mailto:gmcv.bccl@coalindia.in">gmcv.bccl@coalindia.in</a>
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2. If a Joint venture, the names & addresses of the JV partners :Not Applicable

3. Latitude and Longitude of the project

Sl no	Name of Mine	Latitude and Longitude of KML points
1	Begunia Colliery	<b>Point 1</b> - Latitude: 23°43'25.50"N, Longitude: 86°48'9.81"E
2	Victoria West Colliery	<b>Point 2</b> - Latitude: 23°43'8.08"N, Longitude: 86°48'52.08"E <b>Point 3</b> - Latitude 23°44'9.20"N, Longitude: 86°48'31.89"E <b>Point 4</b> - Latitude 23°43'57.88" N, Longitude: 86°49'49.02"E <b>Point 5</b> - Latitude: 23°44'57.01"N, Longitude: 86°49'23.16"E <b>Point 6</b> - Latitude: 23°44'43.88"N, Longitude: 86°50'1.84"E
3	Kalyaneshwari OCP	<b>Point 1</b> - Latitude: 23°46'15.49"N, Longitude: 86°51'29.78"E <b>Point 2</b> - Latitude: 23°46'19.24"N, Longitude: 86°52'12.93"E <b>Point 3</b> - Latitude: 23°45'55.46"N, Longitude: 86°52'8.83"E <b>Point 4</b> - Latitude: 23°45'54.45"N, Longitude: 86°51'45.58"E <b>Point 5</b> - Latitude: 23°45'30.57"N, Longitude: 86°52'14.47"E <b>Point 6</b> - Latitude: 23°44'25.31"N, Longitude: 86°51'11.09"E <b>Point 7</b> - Latitude: 23°44'49.94"N, Longitude: 86°51'3.44"E <b>Point 8</b> - Latitude: 23°44'58.82"N, Longitude: 86°50'41.54"E <b>Point 9</b> - Latitude: 23°44'42.13"N, Longitude: 86°50'11.22"E <b>Point 10</b> - Latitude: 23°45'58.56"N, Longitude: 86°50'40.86"E

4. Whether the project is in the Critically Polluted Area (CPA):No

5. Cost of the project: Estimated Capital Cost of the Project is Rs. 1503.67 crores.

6. Employment generated/to be generated: - BCCL has existing manpower. However, 200 nos. of additional employment will be provided against land acquisition and also indirect employment may be generated through contract works. (As per Draft PR of Kalyaneshwari OCP and revised land requirement as per revised mining plan of Proposed Kalyaneshwari OCP for 4.0 MTPA).

**7. Benefits of the project: -**

- I. Ensuring Safety to Life and Property of local people and Property of State.
  - II. The developments of mining in the area will provide direct and indirect employment opportunities
  - III. Bridge the gap of demand and supply of Coal in India.
  - IV. To meet the requirement of Coking coal, substantial savings in Foreign Exchange.
  - V. Boost to local and regional economy, direct contribution to the state exchequer
  - VI. To bring about enhanced Socio-economic benefits to local population as per CIL's CSR Policy.
  - VII. Implementation of Natural and Community Resource Augmentation Plan.
8. Whether new or Expansion project: New Project over old mine leasehold taken through nationalization & re-allocated block.
9. If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006. Not Applicable.
10. If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF- Not Applicable
11. No. and Date of the ToR /and revised ToR, if any, letter issued by the MoEF (if this is a case for EC):ToR granted (under Violation) vide letter no. J-11015/373/2013-IA.II(M) dated 16/10/2018.
12. No. and Date of the EC and the revised EC letter issued by the MoEF(if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent): Not Applicable
13. If the project was considered in EAC, Pl. give dates of the meeting (s).:
- 12<sup>th</sup> Violation EAC, 28<sup>th</sup> August 2018, proposal was considered under Agenda item 12.3.11 and ToR recommended. ToR was granted vide letter no. J-11015/373/2013-IA.II(M) dated 16/10/2018. EC application was considered in the 17<sup>th</sup> Violation EAC held on 31<sup>st</sup> January 2019, 23<sup>rd</sup> Violation EAC held on 25<sup>th</sup> June 2019, 26<sup>th</sup> Violation EAC held on 01<sup>st</sup> October 2019.
14. Type of Mine:Opencast mine.
15. Capacity of the mine appliedfor: Production Capacity: 4.00 MTPA for Proposed Kalyaneshwari OCP.

16. ML Area

- (a) As per block allotment: Block Area as per approved Mining Plan is 703 Ha.  
 (b) As per approved mine plan: As per approved mine plan, the Mining Lease already with CV Area is 802.158 ha and the Proposed Project Area for Kalyaneshwari OCP is 781.18 Ha.

**17.** Date of approval of mine plans, mine closure plan Status & date: Mining Plan and Mine Closure Plan for Proposed Kalyaneshwari OCP was approved in 364<sup>th</sup> BCCL Board Meeting held on 06.05.2020. Mine Closure Plan of Mines of Begunia Colliery was approved in 345<sup>th</sup> BCCL Board meeting held on 03.08.2018.

**18.** Date of Board's approval: Mining Plan and Mine Closure Plan for Proposed Kalyaneshwari OCP was approved in 364<sup>th</sup> BCCL Board Meeting held on 06.05.2020. Mine Closure Plan of Mines of Begunia Colliery was approved in 345<sup>th</sup> BCCL Board meeting held on 03.08.2018.

**19.** Date of Ground water clearance and Surface water approval: As per West Bengal State authority looking after Ground Water Clearance, the application will be processed once EC is granted.

**20.** Existing Ground water level:

Zone	Season	Range
Core Zone	Pre-monsoon	0.45-5.27 m
	Post-monsoon	0.35-3.29 m

**21.** Date of Mine Closure approval: Mine closure plan with Mining Plan of Proposed Kalyaneshwari OCP has been approved on 06.05.2020 and Mine Closure Plan of Begunia UG was approved on 03.08.2018.

**22.** Any river/Nallah flowing adjacent to the proposed mine. If yes please give details. Yes Barakar River is flowing along west boundary of Cluster from north to south.

**23.** Details of mine lease:-

1. Date of entering into original lease deed. 01.05.1973	1. Date of 1 <sup>st</sup> lease renewal: 08.12.2000	1. Date of 2 <sup>nd</sup> lease renewal- NA	1. Date of 3 <sup>rd</sup> lease renewal- NA
2. Date of expiry of original lease deed 30.04.2003	2. Whether renewal or deemed renewal -- Deemed	2. Whether renewal or deemed renewal	2.....
	3. Date of expiry of 1 <sup>st</sup> lease renewal/deemed Renewal.- 07.12.2030	3. Date of expiry of 2 <sup>nd</sup> lease renewal/deemed renewal	3.....
			[ALSO FO R SUBSEQUENT

## Technical Details

**24. Geological Reserve:**

- (i) Total geological reserve: 20.20 MT
- (ii) Mineable reserve: 18.18 MT
- (iii) Extractable reserve: 18.18 MT
- (iv) Percent (%) of extraction: 13.31%
- (v) Range of ground water level:

Zone	Season	Range
Core Zone	Pre-monsoon	0.45-5.27 m
	Post-monsoon	0.35-3.29 m

(vi) Total estimated water requirement: 875 m<sup>3</sup>/day industrial water requirement and 1715 m<sup>3</sup>/day water requirement for township.

(vii) Details of intersecting ground waterlevel

**Core Zone**

WELL NO.	YEAR	Water level Below Ground Level (in meters)										
		2008	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
DB-8	May	3.62	4.28	3.97	-	4.53	5.27	4.53	1.77	3.37	3.37	3.47
	Nov	1.57	3.00	2.12	2.52	3.27	2.74	3.29	1.22	1.33	2.09	2.27
DB-9	May	4.05	4.78	2.18	1.88	2.93	2.13	2.58	2.91	1.58	1.58	1.68
	Nov	0.93	0.93	0.95	0.98	1.08	1.13	2.13	1.58	1.58	0.68	0.58
DB-12	May	2.85	-	1.93	2.03	3.20	3.33	3.38	2.08	1.93	2.33	2.23
	Nov	2.88	2.13	2.03	1.67	2.33	2.33	2.15	1.93	1.88	1.70	1.88
DB-13	May	2.49		2.79	2.42	3.57	3.44	2.89	2.32	2.22	2.07	2.42
	Nov	2.52	2.22	4.25	2.90	2.52	2.29	2.42	2.30	2.00	1.22	1.22
DB-15	May	2.63	4.20	3.05	3.45	4.45	4.12	3.40	0.85	0.45	2.22	2.40
	Nov	1.15	1.35	1.13	1.45	1.15	0.65	1.20	0.35	1.15	1.65	2.20

**25. Method of mining:**Opencast mining using Shovel Dumper Combination.

**26. Life of mine (yrs) :**Kalyaneshwari OCP – 12 years

**27. Whether ambient air quality seasonal data has been monitored. If so, from which season to which season and whether the results are within the prescribed limits:**Yes. Baseline data has been generated from 1st January 2016 to 31st March 2016. Results are found to be within prescribed limit.

28. Whether the monitoring report of earlier EC from MoEF Regional Office has been obtained, in case the proposal is forexpansion.: Not Applicable

29. Details of External O.B. Dumps

No of Dumps	5
Area of each dump (Ha)	359.46 Ha (Total for all the external dumps)
Height of each dump	90 m.
Quantity(Mcum) of OB	132.10 Mm <sup>3</sup>
Year of back filling	No backfilling is proposed in Kalyaneshwari OCP.
No. of OB Dumps reclaimed	One OB dump is being reclaimed technically and eco-restoration is being carried out over it.
If garland drains and settlement facility for runoff created	Nil
Whether runoff water beingutilized	A part of runoff water will be utilized by the mine and remaining will be allowed to flow through natural drainage to Barakar River which is essential for maintaining flow of river and also for

30. Details of Internal Dumps: No internal dump is proposed in approved mining plan of Proposed Kalyaneshwari OCP.

31. Utilization of potential ofwastes

- (i) Within the mines: External OB dumps will be technically and biologically reclaimed.
- (ii) Outside mines: Oil & Grease will be disposed through auction to authorized reprocessor.
- (iii) Efforts made by proponent: External OB is being technically and biologically reclaimed and Top Soil is being stored for further use in future.

32. Details of final Mine Voids

- i. Area : 240 Ha
- ii. Depth : 190 m

33. Details of Quarry:

- (i) Total quarry area : 240 Ha
- (ii) Backfilled quarry area of Nil ha shall be reclaimed withplantation.
- (iii) A void of 240 ha at a depth of 190 m (in post-mining period) which is proposed to be converted into a water body.
- (iv) Green belt created in 5 ha.

34. Details of Land usage

- i. Pre-mining



S. No.	Land Use	Within ML Area (Ha)	Outside ML Area (Ha)	Total
1.	Agriculture	806.78	-	806.78
2.	Forest land	0	-	0
3.	Wasteland	261.21	-	261.21
4.	Grazing Land	Included in Agriculture and Wasteland	-	Included in Agriculture and Wasteland
5.	Surface water bodies	126.10	-	126.10
6.	Settlements	158.43	-	158.43
7.	Other (Specify)	44.66 (Road/Rails service building) and	-	44.66 (Road/Rails and service building)
	<b>TOTAL</b>	<b>1397.18</b>	<b>-</b>	<b>1397.18</b>

ii. Core area

**Table:** Present Land Use of Cluster XVII

Sl.No.	Type of land use		Present mining land use (in Ha)
1	Running Quarry	Backfilled	0
		Not Backfilled	128.18
2	Abandoned Quarry	Backfilled	Included in External OB dump
		Not Backfilled	0
3	External OB dump		86.53
4	Service building/ Mine Infrastructure		25.06
5	Homestead land		212.25
6	Coal dump		1
7	Road and rail including Haul Road		26.81
8	Ag/Fallow Land		119.25
9	Forest Land		0
10	Plantation	Plantation	5
		Grass	0

Sl.No.	Type of land use		Present mining land use (in Ha)
		Carpeting	
11	Water Body		122.75
12	Barren Land		670.35
	<b>Total</b>		<b>1397.18</b>

**35. Details of Forest issues**

**(i)** Total forest area involved (in ha) for mining lease.: **No Forest Land is involved in Core Zone of Cluster XVII.**

**(ii)** Details of wild life issues involved, if any. If so, whether WL management plan has been prepared and please indicate the status. - **NA**

**(iii)** Whether Schedule-I species, if yes conservation plan is approved by CWLW? No Schedule-I species was found during baseline survey of Flora and Fauna.

**36. Costs of the project:**

		Proposed Kalyaneshwari OCP	Begunia Colliery	Victoria West Colliery	Victoria Colliery	Damagori a Colliery
Total capital Cost (Crores)	Rs. 1503.67 Crores	-	-	-	-	-
Cost of Production (Rs/te)	Rs. 2532.96	-	-	-	-	-
Sale Price (Rs/te)	Rs. 4220.46	-	-	-	-	-
CSR cost:	Fund for CSR will be allocated based on 2% of the average net profit of the company for the three immediate preceding financial years or Rs. 2.00 per tonne of coal production of the previous year whichever is higher.					
R&R Cost (Rs.in Lakhs)	Rs. 28982.29 lakhs for rehabilitation under Master Plan, Rs. 28011.10 lakhs for proposed rehabilitation for Kalyaneshwari OCP					
No of PAFs	3025 as per Master Plan and 940 PAFs (out of which 23 covered under master plan)					
Cost for implementing EMP	Capital Cost: Rs. 1783.17 lakhs Revenue Cost: Rs. 95 lakhs/year					

**37. Details of villages/habitation in mine lease area:**

- (i) Inside the lease: Muchi Para, Kora Para, Tetul Dhawra, Bindu Dhawra, Samaj Dhawra, Borira, Damagoria, Kurkutia Basti, Old Kalyaneshwari Mandir
- (ii) Surrender by lease- Total no. of 940 PAFs(out of which 23 covered under master plan)
- (iii) Extent of cropland acquired/ being acquired in ha: Land use of 2.66 Ha agricultural land will be converted.

**38. Details of transportation of mineral**

**Kalyaneshwari OCP**

- |       |   |   |
|-------|---|---|
| (i)   | In pit (km)   | 0.02 – 4.6 km (within pit)  |
| (ii)  | Surface to siding (km)  | 1 to 2 km (through road transport)  |
| (iii) | Siding to loading (km)  | Nil   |
| (iv)  | Quantity being transported by Road/Rail/Conveyor /ropeway     | 90% of coal will be dispatched through rail to consumers, 10 % coal will be dispatched through roads. |
| (v)   | Proposed change in transportation means, if any, give details | NA  |

**39. Details of reclamation:**

a Afforestation shall be done covering an area of: 529.64 ha at the end of mining. This will include:

- (i) Reclaimed external OB dump (in ha): 359.26 ha
- (ii) Internal Dump: Nil.
- (iii) Green belt (in ha) 170.38 ha
- (iv) Density of tree plantation (in no of plants) 2500 per ha.
- (v) Void 240 ha at a depth 190 m (Maximum depth) which is proposed to be converted into water body
- (vi) Agriculture and horticulture: Nil.
- (vii) Fisheries: Nil
- (viii) ECO Tourist/recreation spot: Eco-restoration will be carried out in 75 ha in Cluster XVII. An eco-park will be created over 2-3 ha of degraded mined area which will provide a space for recreation. Eco-Tourism will be promoted over eco-restored Area.

**Legal Issues**

Any court case pending. If so, please provide a list with details as an annexure. No court cases are pending for Cluster XVII.

Any violation cases pending. If so, please provide a list with details as an annexure. No Violation case by SPCB.

Give details of actual coal production vis-à-vis sanctioned capacity since the inception of mine in following format – Kalyaneshwari OC are New Projects :

Year	Victoria west Colliery	Damagoria Colliery	Begunia Colliery	Victoria Colliery	Kalyaneshwari OC (proposed replacing Damagoria and Victoria)	Total
1993-94	51936.00 Te.	866037.00	76028.00 Te.	-	-	994001.00 Te
1994-95	51714.00 Te	631844.00 Te	76974.00 Te	-	-	760532.00 Te
1995-96	61428.00 Te	547689.00 Te	81477.00 Te	-	-	690594.00 Te
1996-97	47404.00 Te	441485.00 Te	75604.00 Te	-	-	564493.00 Te
1997-98	56738.00 Te	561188.00 Te	75394.00 Te	-	-	693320.00 Te
1998-99	59700.00 Te	373829.00 Te	72149.00 Te	-	-	505678.00 Te
1999-	77265.00 Te	481225.00 Te	71011.00 Te	-	-	629501.00 Te
2000-01	54164.00 Te	483007.00 Te	62290.00 Te	-	-	599461.00 Te
2001-02	21185.00 Te	472450.00 Te	81621.00 Te	-	-	575256.00 Te
2002-03	-----	499955.00 Te	106921.00 Te	-	-	606876.00 Te
2003-04	-----	480821.00 Te	106006.00 Te	-	-	586827.00 Te
2004-05	-----	229281.00 Te	83334.00 Te	-	-	312615.00 Te
2005-06	-----	162414.00 Te	66770.00 Te	-	-	229184.00 Te
2006-07	-----	122799.00 Te	51772.00 Te	-	-	174571.00 Te
2007-08	-----	128842.00 Te	31784.00 Te	-	-	160626.00 Te
2008-09	-----	96054.00 Te	33395.00 Te	-	-	129449.00 Te
2009-10	-----	28028.00 Te	34658.00 Te	-	-	62686.00 Te
2010-11	-----	-----	28869.00 Te	-	-	28869.00 Te
2011-12	-----	-----	33970.00 Te	-	-	33970.00 Te
2012-13	-----	46402.00 Te	19572.00 Te	-	-	65974.00 Te
2013-14	-----	1546887.00 Te	-----	-	-	1546887.00
2014-15	-----	1048433.00	-----	-	-	1048433.00 Te.
2015-16	-----	2557456.00	-----	-	-	2557456.00 Te.
2016-17	-----	2141770.00	-----	-	-	2141770.00 Te.
2017-18	-----	1380834.00	-----	-	-	1380834.00 Te.
2018-19	-----	1188046.00	-----	-	-	1188046.00 Te.

### Public Hearing

Date and Place of public hearing: Public Hearing was held on 27.04.2018 at New Kali Mandir Premises in Damagoria Colliery. The designation of officer presided over the PH: Dy. Collector and Dy. Magistrate.

### Consultant:

Name of the EIA consultant who prepared the EIA/EMP report- Central Mine Planning and Development Institute Ltd. (CMPDIL) accredited by the QCI and NABET as per the MoEF OM dated 2nd December, 2009.

### Observations and recommendations of committee in earlier EAC meetings

Proposal was earlier considered in the 17th EAC meeting held on, 29-31 January, 2019. PP and consultant made a detailed presentation on the proposal. The EAC after detailed deliberation on the information submitted by the EAC and as presented, deferred the proposal for want of following submissions:

- i. Proof of credible action initiated against PP under section 19 of E P Act, 1986.
- ii. Detailed R&R plan.
- iii. NOC from CGWA/State ground water department for ground water and river water utilization/ abstraction.
- iv. Minimum and maximum values with 98 percentile values of air quality data to be submitted and prediction of GLC by revising the air quality by providing the input data considered for the same during violation period and for the proposed expansion qty with and without control measures to be submitted.
- v. Noise monitored data for day and night with modeling details.
- vi. Separate water balance for Washery, colony and mining and for the colony ,it shall consider dual plumbing and accordingly the consumption quantity shall be revised considering conservation measures since the proposed consumption is very high further water consumed during violation period shall be submitted and the related damage and remediation shall be reworked since used without NOCs, action plan to reduce utilization of domestic: 1715 KLD (980 KLD + 735 KLD), river: 2675 KLD and for industry: 2910 KLD. NOC from state department shall mention the adequacy with provision for competing users and the qty surplus for this purpose. Water balance during rainy season and proposed RWH system for both lease and colony and other infrastructure.
- vii. Pros and cons of alternative technology for beneficiation with scheme details and justification shall be submitted. It shall enumerate, the provision for handling of tailings in the emergency situation and handling system apart from the moisture gain during this wet process pre and post data of rom and washed coal and proof for zero waste concept with mass balance and water balance.
- viii. Slope stability study for dumps and deep seated mining by a reputed institute/ORG and their recommendations.
- ix. Details of land usage are mismatching in Form 2 applications and basic information.
- x. Regarding status of mining lease for 369.33 Ha which is outside the existing mining lease area proposed for external OB dumping and also submit the transfer of land details from ECL to BCCL.
- xi. Submit the detail R&R plan with comparison of central and state policies.
- xii. Slope stability study is to be submitted.
- xiii. Submit the revised calendar plan for coal and OB.
- xiv. Flow sheet for rom to Washery and process to dispatch system with line diagram encompassing pollution control devices/system adopted.
- xv. Plantation plan considering the deficit/shortfall during violation period and future for 5 years considering the safety zone along the boundaries(7.5m) and Green belt protection for both the colonies and surface water bodies and the action with specific period commitment.
- xvi. Water balance for both the colonies shall be reworked with provision of dual plumbing and considering specified LPCD.
- xvii. Provision of energy conservation measures for colonies and other infra so far adopted and future commitment related ECBC norms for colonies, commercial structures, etc and the damage assessment shall be worked out accordingly for non-provision so far and remediation budget asap.
- xviii. A table depicting the PH points raised by public, action plan with budgetary provision by PP.
- xix. Natural and community resource augmentation shall be brought out with consideration of damaged caused utilization of relevant resources without noc/clearances.
- xx. The budgetary estimate for remediation measures against the revised damage assessment and natural and community resources augmentation plan shall be revised

accordingly with a 3-year action plan and CER shall be reworked providing more budget for skill development, health and medical support, development of social infra and community plantation.

PP submitted the compliance of the 17<sup>th</sup> meeting on 13<sup>th</sup> June 2019 through Parivesh Portal. Accordingly, proposal was considered in the 23<sup>rd</sup> EAC meeting held on 25-26th June 2019. PP along with the consultant made the detailed presentation on the information sought in the 17th EAC meeting held on 29-31 January, 2019. Based on the information as submitted and presented by the PP, the EAC deferred the proposal for want of following information:

- i. Revised flow sheet for washing with PC system.
- ii. Proximate analysis to determine moisture, volatile matter, fixed carbon, and ash yield to be done and submitted.
- iii. Revised calendar plan is to be submitted.
- iv. Rework on the cost for water and details of the same is to be submitted.
- v. Mass balance of water to be reworked and submitted.
- vi. Mass balance of Coal Washery (3.6 MTPA) for peak production (5.2 MTPA).
- vii. CER to be revised as per ministry guidelines dated 01st May 2018.
- viii. Explore possibility of reuse of grey water to Washery, if appropriate
- ix. Details of the equipment's to minimize noise, air emission as well as dust generation.
- x. Details of plantation done with photograph is to be submitted along with Greenbelt development plan.
- xi. Details of OB dump is to be submitted.
- xii. Regarding status of mining lease for 369.33 Ha which is outside the existing mining lease area proposed for external OB dumping and also submit the transfer of land details from ECL to BCCL
- xiii. Revised damage assessment and accordingly budgetary provision for three years for implementation of remediation plan, natural & community resource augmentation plan is to be submitted as suggested by the EAC.
- xiv. Economic benefit accrued during violation period, certified by competent authority is to be submitted.

PP submitted the compliance of the 23<sup>rd</sup> on 9<sup>th</sup> August 2019 through Parivesh Portal. Accordingly, proposal was considered in the 26<sup>th</sup> meeting held on **01.10.2019**. PP along with the consultant made the detailed presentation on the information sought in the 23<sup>rd</sup> EAC meeting. EAC observed that mine lease area has been reduced to 1474.76 and consequently production of Coal Mining Project is now reduced from 5.20 MTPA (Peak) to 4.0 MTPA (Peak) and Washery of 3.60 MTPA. EAC recommended revising the title accordingly. Based on the information as submitted and presented by the PP, the EAC deferred the proposal for want of following information:

- (i) Mass balance of water i.e considering the usage for all the purposes including Washery and domestic and discharge to the river during monsoon and non-monsoon period with pre-treatment and relevant analysis certificates and the status of NOC from CGWA and State Dept. apart from the stage of development of water in compliance with GEC 2015 considering competing users including agriculture use shall be submitted.
- (ii) ZLD concept need to be explained in detail.
- (iii) Details of Ultimate analysis of the Coal need to be submitted along with the comparison with the proximate analysis.
- (iv) Details of life of mine after reduction in mine lease area.

- (v) It is noted from the report that some dumps are with 90 m height above MSL and some are with 60 m height and hence by providing 90m height uniformly considering the guidelines of Slope Stability studies and land saved due to this revision and also Justification / Reasons for not adopting in pit filling at least in the decoaled Quarry of about 215 ha as projected by PP which would save land area damage from external dumping since max. extent is either agri./barren revenue lands which could be put to its original /beneficial use on judicious evaluation.
- (vi) Water quality analysis of Barkar river.
- (vii) Revised land use pre, present and post mining and details of LU/LC pre, present and post and subsequent damage analysis based on Imageries.
- (viii) Revised approved mining plan for 4.0 MTPA coal production
- (ix) Revised details of equipment including Dumpers, etc, to minimize dust generation
- (x) Comparison table regarding change in all parameters for production capacity of 5.2 MTPA (earlier proposed) and 4.0 MTPA (present proposal).
- (xi) Revised CER cost as suggested by the EAC and the OM.
- (xii) Revised EMP cost (capital & recurring) to be submitted
- (xiii) Input data format as mentioned in the agenda (Annexure XI) to be submitted which mainly addresses the AQIP for air quality damage assessment during violation period vis- vis corresponding to the quantity excess mined/OB handled during that period and also refer point 4 of the observation of 29/01/2019 minutes of meeting and also xiii of 26/06/2019 minutes of meeting, which has not been adequately addressed, shall be furnished.
- (xiv) Revised damage assessment by revisiting the AQIP.
- (xv) Status of all the RWH structures like Garland Drain, toe drain, check dams, settling tanks/ponds, toe walls etc so far provided and requirement and the plan for compliance with budget is to be submitted.

### **Observations and recommendations of committee in present EAC meeting (35<sup>th</sup> )**

PP submitted the compliance of the 26<sup>th</sup> meeting on 27<sup>th</sup> July 2020 through Parivesh Portal. Accordingly, proposal was considered in the present meeting (35<sup>th</sup>). PP along with the consultant made the detailed presentation on the information sought in the 26<sup>th</sup> EAC meeting.

PP apprised EAC that Sitarampur block is not yet allocated to BCCL as it is under CBM exploration, the proposal was revised excluding Sitarampur Block Area(369.33Ha), accordingly the Cluster Area also reduced to 1397.18 Ha. Since BCCL has installed/installing a no of new washeries which will suffice the requirement of the cluster, the washery proposal is dropped. Revised mining plan for 4.0 MTPA coal production has been approved in 364<sup>th</sup> meeting of BCCL Board held on 06.05.2020. The life of mine after the reduction in mine lease area will be 12 year. The life of the earlier proposal was of 39 years. Total Damage assessment of Rupees Fifty-Three Crore Seventy-Five Lakh (Rs.53.75 crore) is proposed to be spent on Remediation Plan cum Natural and Community Resource Augmentation Plan (NCRAP).

EAC in the present meeting deliberated on the information submitted to the Ministry and as presented before the committee. EAC observed the following:

- EAC noted that as per Tor granted to Cluster XVII, inoperative mine Victoria (223.00 Ha) was merged with Damagoria OC (620.10 Ha) to form proposed Kalyaneshwari OC also including 369.33 Ha of land in Sitarampur Block which at present doesn't belong to BCCL.

- Begunia Colliery (306.00Ha), Victoria West Colliery (310.00Ha) to remain inoperative. Thus only one operative mine Kalyaneshwari OC was proposed with normative production 4.0 MTPA, peak production 5.2 MTPA, life of 39 years and project area of 1212.43 Ha(620.10+223.00+369.33 Ha) . A pit head washery of 3.65 MTPA was proposed in 15.66 Ha. The cluster Area was therefore 1844.09 Ha (1212.43 + 306.00 + 310.00 +15.66 Ha).
- Since the Sitarampur block is not yet allocated to BCCL as it is under CBM exploration, the proposal was revised excluding Sitarampur Block Area(369.33Ha), The Kalyaneshwari OC was thus reduced to 843.10Ha (620.10Ha+223.00Ha) with life also reducing to 12 years. The cluster Area reduced to 1474.76 Ha [1844.09 - 369.33 (Sitarampur Block)]. It was submitted by the PP that mine will operate as per approved mining plan but restricted up to 12 years.
- As per the revised approved Mining Plan, with restricted area and life, it was assessed that the pithead washery can be dropped in view of 06 new washeries under installation for which EC already granted. Hence washery is dropped from the project proposal
- The area of Damagoria OC also reduced from 620.10 Ha to 558.18 Ha (620.10-61.92 Ha) as per land availability. Therefore, the Kalyaneshwari OC project area reduced to 781.18Ha (843.10-61.92 of Damagoria). Accordingly, the Cluster Area also reduced to 1397.18 Ha (1474.76 -61.92-15.66 Ha).

EAC also deliberated on the activities proposed under the plans and advised PP that proposed activities be revised with budgetary provision of Rs5375.00 lakhs. EAC further advised PP to revise Water Balance and details of Grey Water Treatment for recycling it for Industrial Use and CER activities should be planned for three years. EAC, therefore, in view of the aforesaid suggestion, advised PP to submit the aforesaid information to the EAC members by tomorrow i.e on 8<sup>th</sup> August 2020 through email.

PP accordingly submitted the above information to all the EAC members on 8<sup>th</sup> August 2020. EAC after detailed deliberation on the information submitted by the PP (EIA/EMP report, PH issues, Form 2, Additional information, Annexures etc), **recommended** the proposal for 4.0 MTPA (peak production) from 1397.18 Ha of mine lease area(excluding Washery) for grant of Environmental Clearance subject to the compliance of following specific conditions in addition to all standard conditions applicable for such projects:

- i. EAC recommended for an amount of Rs 5375.00 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details are given below:



### Remediation plan alongwith budgetary provision

Sl No	Activity Proposed	Proposed Location	Year 1	Year 2	Year 3	Total (in Rs. Lakhs)
			In Rs lakhs			
1	Installation of CAAQMS	1. Damagoria Siding	-	-	100	100
2	Avenue plantation along NH2.	From Kalyenshwari Check Post to Rampur MV check post.(6 KM)	100	-	-	100
3	Vertical Greenery System and wind barrier at Damagoria Siding & NLOCP Siding	1. Vertical Greenery 800 Meter length at Damagoria Siding.	100	100	100	300
4	Construction of DB road.	Lalbazar to Rampur MV check post- 4 KM	-	-	2000	2000
5	Construction of Pucca road from Ramanagar Village to Nakajuria Basti.	Ramanagar Village to Nakajuria Basti Via Damagoria Office- 2 KM	-	-	-	150
6	Construction of transportation road from Kalyanchak to Rakhapara Basti along with bridge construction on Khudia River.	From Jamdahi Basti to Rakhapara Basti Via Panchmohani Basti- 3 KM	-	1500	-	1500
7						
<b>Sub Total (Air Environment)</b>			<b>350</b>	<b>1600</b>	<b>2200</b>	<b>4150</b>

Sl No	Head	Activity Proposed	Proposed Location	Year 1	Year 2	Year 3	Total
				In Rs lakhs			

1	<b>Water Environment</b>	Cleaning of Nearby Pond /Jor/Nalah.	1. Jhilia Nalah 2. Haji Nagar Pond 3. Lal Bazar Pond 4. Borira Pond 5. Baltoria Pond 6. C-9 Nalah 7. Chungari Basti Nalah	30	30	40	100
<b>Sub Total Water Environment</b>				<b>30</b>	<b>30</b>	<b>40</b>	<b>100</b>
1	<b>Energy Conservation</b>	Distribution of solar powered submersible Pump to nearby Villages (05 Nos.)	To be made available to Kulti Block municipality for distribution to nearby village.	50	50	-	100
2		Solar power generation at Kulti block	Begunia village	-	75	-	75
<b>Sub Total Energy Environment</b>				<b>50</b>	<b>125</b>	<b>-</b>	<b>175</b>
<b>Grand Total (Air + Water + Energy)</b>				<b>430</b>	<b>1755</b>	<b>2240</b>	<b>4425</b>

**Natural Resource Augmentation Plan with budgetary provision**

SN	Activity Proposed	Proposed Location	Year 1	Year 2	Year 3	Total
			(In Rs lakhs)			
1.	Rain water Harvesting in BCCL Colonies & Nearby Villages	1. Dahibari Colony BCCL 2. Lalbzar Village 3. Sabanpur Village	30	30	40	100
<b>Total</b>			<b>30</b>	<b>30</b>	<b>40</b>	<b>100</b>

**Community Resource Augmentation Plan**

S No	Activity Proposed	Year 1	Year 1	Year 2	Year 3	Total
		(In Rs lakhs)				
1	Stone Pitching on banks of Khudia River along with construction of Ghat.	Khudia River between Pachet road Bridge & Kalyanchak road Bridge- 1 KM	-	700	-	700
2	Construction of School in nearby village.	Primary school at Laikdih, Chirkunda	-		50	50
	Construction of stadium & temple for nearby village people	Stadium at Begunia Football ground Temple at Dahibari village	50		50	100
<b>Total</b>			<b>50</b>	<b>700</b>	<b>100</b>	<b>850</b>

## Summary

S. No.	Head	Amount (in Rs. Lakhs)
1.	Remediation Plan	4425
2.	Natural Resource Augmentation Plan	100
3.	Community Resource Augmentation Plan	850
<b>Total</b>		<b>5375</b>

- ii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 5375.00 lakhs. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 5375.00 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.
- iii. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.
- iv. Fund allocation for Corporate Environment Responsibility (CER) of Rs. 1532 lakhs/- to be implemented as per the details submitted to the Ministry and to be spent in three years.
- v. Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- vi. The Environmental Clearance will not be operational till such time the Project Proponent complies 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.

- vii.** State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of 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.
- viii.** Solid waste management as per SWM rules 2016 shall be complied within their colony.
- ix.** Effective dust suppression system shall be adopted at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission.
- x.** Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- xi.** The mining lease holder shall, after ceasing mining operations, under take re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to condition which is fit for growth of fodder, flora and fauna etc.
- xii.** Greenbelt development/Bio-diversity Conservation Plan shall be implemented to mitigate the impacts as predicted in the EIA/EMP.

**35.4.6. Expansion of Tubachi - Bableshtar Lift Irrigation Scheme (CCA: 52,700 ha) in Bagalkot District of Karnataka by M/s Karnataka Neeravari Nigam Ltd., Government of Karnataka – Terms of Reference[F. No. 12011/05/2015 - IA 1 (R) Pt 1]**

**Project Proponent did not attend the meeting**

**35.5. Discussion on any other item with permission of the Chair.**

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