

Minutes of 36th meeting of Expert Appraisal Committee for the proposal involving violation of EIA Notification, 2006 held on 21st -22nd September, 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 Amardeep Raju - Member Secretary

Dr. Ramana Murthy could not join the meeting

Day 1: 21st September, 2020

Time: 11.00 AM to 04.30 PM

36.1. Opening remarks of the Chairman

36.2. Confirmation of the minutes of the 35th meeting held on **06th – 07th August, 2020** at Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi

36.3 Proposal for consideration

36.3.1 Expansion of Manufacturing of Bulk Drug & Intermediates (from 12.85 TPM to 34.8658 TPM) at Gut No. 204, Nashik-Mumbai Highway, Vadivarhe, Taluka Igatpuri, District Nashik, Maharashtra by M/s Vadivarhe Specialty Chemicals Ltd. –reconsideration of Environmental Clearance.

[Proposal no. IA/MH/IND2/87354/2016 dated 05.10.2019] [F. No. J-11011/123/2016-IA.II(I)]

The Project Proponent and the accredited Consultant M/s Green Circle INC, made a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for environmental clearance for the expansion of manufacturing of Bulk Drug & Intermediates (from 12.85 TPM to 34.8658 TPM) at Gut No.204, Nashik-Mumbai highway, A/P-Vadivarhe, Tal-Igatpuri, Dist- Nashik-422403 (Maharashtra), by M/s. Vadivarhe Speciality Chemicals Ltd.
- ii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its Meeting held during 21-24 October, 2018 & 29-31 January 2019 and recommended Terms of References (ToRs) for the Project. The ToR has been issued by Ministry vide letter No.J-11011/123/2016-IA II (I); dated 19th July 2019. Proposal for EC was submitted to the Ministry on 05.10.2019.

iii. All Products are listed at S.N. 5 (f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

iv. The proposed expansion will be within the existing premises which is sufficient to accommodate the proposed plant; hence no additional land is required to be acquired for this project. Total land area of the plant is 12500 m²

v. Industry has already developed greenbelt in an area of 36.8% i.e., 4600 m² out of total area 12,500 m² of the project.

vi. The estimated project cost is Rs 36.00 Crores including existing investment of Rs 21.00 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs 1.90 Crores and the Recurring cost (operation and maintenance) will be about Rs 0.29 Crores per annum. Total Employment will be 150 persons after expansion.

vii. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc within 10km distance from the project site. River/water body is flowing at a distance of Mukane Dam (2.69 km) in SW direction.

viii. Ambient air quality monitoring was carried out at 8 locations during 1st March 2017 to 31st May 2017 and the baseline data indicates the ranges of concentrations as: PM₁₀ (68.01 -85.88 µg/m³), PM_{2.5} (27.20-34.35 µg/m³), SO₂ (8.68-10.24 µg/m³) and NO_x (13.68-16.54 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.59 µg/m³, 0.15µg/m³ and 0.26 µg/m³ with respect to PM₁₀, SO₂ and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

ix. Total water requirement is 54.41m³/day of which fresh water requirement of 37.92 m³/day. Main source of water supply is from Mukane Dam which will meet through tankers.

x. Effluent of 24.71 m³ quantity will be treated into ETP followed by RO and MEE. The plant will be based on Zero Liquid discharge system.

xi. Power requirement after expansion will be 450 KVA and will be met from Maharashtra State Electricity Distribution Corporation limited (MEPDCL). Existing unit has 1 No. of DG set of 250 KVA capacity, which is used as standby unit during power failure. Stack (height 6 m above roof) has been provided as per CPCB norms.

xii. Existing unit has 2 TPH fire briquette boiler with a stack of height of 30 m will be installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm³ for the proposed boilers.

xiii. Details of Process emissions generation and its management

Sr. No	Stack attached to	Condition	Capacity	Stack Ht. (m)	Stack Dia. (mm)	Stack gas temp (°C)
1.	Scrubber (Process Reactor)	Existing	3000 CFM	24 m	152 mm	Ambient

2.	Scrubber (Process Reactor)	Proposed	4000 CFM	24 m	152 mm	Ambient
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xiv. Details of Solid waste/ Hazardous waste generation and its management

Sr. No.	Cat.	Name of Hazardous waste	Existing Quantity	Proposed Quantity	Total	Disposal
1.	5.1	Used/ spent Oil	0.55 kg/day	4.45 kg/day	5 kg/day	CHWTSDF/sale to authorized re-processor
2.	20.3	Distillation Residue	2.6 kg/day	102.5 kg/day	2410.1 kg/day	CHWTSDF
3.	28.1	Waste Residue		105 kg/day		CHWTSDF
4.	28.6	Spent solvent		2200 kg/day		Sale to authorized vendor/recycler
5.	35.3	ETP Sludge	2.19 kg/day	124.48 kg/day	126.67 kg/day	CHWTSDF
6.	35.4	Oil and grease Skimming	0.05 kg/day	0.45 kg/day	0.5 kg/day	CHWTSDF
7.	-	Filter material	0.16 kg/day	5.5 kg/day	5.66 kg/day	CHWTSDF
8.	28.4	Discarded product material (R & D basis)	-	5 kg/day	5 kg/day	CHWTSDF
9.	33.1	Discarded containers	20 nos./Month	45 nos./month	65 nos./Month	Reuse/recycle/ Sale to authorized vendor/recycler
10.	37.3	MEE salts	-	40 kg/day	40 kg/day	CHWTSDF

xv. Public Hearing for the proposed project has been conducted by the Maharashtra State Pollution Control Board on 28.06.2017 at 11:00A.M. Main issues raised were regarding women empowerment, adequacy of existing waste water treatment facility, hazardous waste and waste water management.

xvi. Status of Litigation Pending against the proposal, if any. (Not Applicable)

xvii. The details of products and capacity as under:

S.No	Product Details	Existing Quantity (MT/M)	Proposed Quantity (MT/M)	Total Quantity (MT/M)
Group A-Orthoesters				
1	Trimethylortho Propionate	0.2500	0.0000	0.2500
2	Tributylortho Propionate	0.1000	0.0000	0.1000
3	Trimethylortho Valerate	0.2000	0.0000	0.2000
4	Trimethylortho Butyrate	0.0500	0.0000	0.0500
5	Trimethylortho Benzoate	0.0500	0.0000	0.0500
6	Tributylortho Valerate	0.2500	0.0000	0.2500
7	TrimethylOrthoacetate	0.0000	0.0400	0.0400
8	Aloe Vera juice (Stabilised)	0.0000	8.3300	8.3300
9	Lecithin powder	0.0000	0.0080	0.0080

10	Sodium Thioglycolate (powder)	0.1000	0.0000	0.1000
11	Calcium Thioglycolate (powder)	0.1000	0.0000	0.1000
12	Ammonium Thioglycolate (solution)	0.0000	0.0800	0.0800
13	5-Bromo,5-Nitro,1:3 Dioxane	0.0000	0.0040	0.0040
14	Brij (Wax)	3.0000	0.0000	3.0000
15	Hydol (Wax)	3.0000	0.0000	3.0000
16	Stereoamido propyl dimethyl amine (wax) (SAPDMA)	3.0000	0.0000	3.0000
Group B- Indole Derivatives				
17	Indole-3-methanol (Indole-3-carbinol)	0.0000	0.0080	0.0080
18	Indole-3- carboxylic acid	0.0000	0.0080	0.0080
19	Indole-5- carboxylic acid	0.0000	0.0080	0.0080
20	3-(Demethylaminomethyl)Indole (Gramine)	0.0000	0.0008	0.0008
21	Indole-3-carboxaldehyde (Indole-3- aldehyde)	0.0000	0.0080	0.0080
22	3- Cyanoindole	0.0000	0.0080	0.0080
23	Heck Coupled Product	0.0000	0.0080	0.0080
Group C - Speciality Chemicals				
24	Quinoline-6- Carboxylic acid	0.0000	0.0800	0.0800
25	Di methyl Malonic acid	0.0000	0.0080	0.0080
26	4-Chloro-3-Nitroanisole	0.0000	0.0800	0.0800
27	1-Bromo-4-tert butyl benzene	0.5000	0.0000	0.5000
28	Sodium Hippurate hydrate	0.0000	0.0800	0.0800
29	4-Morpholinoaniline	0.0000	0.0080	0.0080
30	N-Benzylglycine ethyl ester	0.0000	0.0400	0.0400
31	6-Methoxyquinoline	0.0000	0.0080	0.0080
32	1-Bromo-2-methyl propane	0.0000	0.0040	0.0040
33	Cheamide	0.0000	0.4100	0.4100
34	L-Cystine disodium Salt	0.0000	0.0080	0.0080
35	Tert-Butoxy-bis (dimethyl amino)methane (Bredereck's reagent)	0.2000	0.1963	0.3963
36	Propionyl chloride	0.0000	0.0400	0.0400
37	3-Aminophthalhydrazide sodium salt	0.0500	0.0000	0.0500
38	Phenyl phosphate disodium salt	0.0000	0.0080	0.0080
39	3-Aminophthalhydrazide (Luminol)	0.2000	0.0000	0.2000
40	ChloroAtavaquinone	0.0000	0.0080	0.0080
41	Immidazolyl acetic acid	0.0000	0.0082	0.0082
42	4-Aminomorpholine	0.4000	0.0000	0.4000
43	2-Amino-4-HydroxyAcetophenone Hydrochloride	0.0000	2.6600	2.6600
44	Ethyl Atropate (EA)	0.5000	0.0000	0.5000
45	N-N Dimethyl Formamide Dimethyl Acetal (DMFDMA)	0.2000	0.0000	0.2000
46	Ethyl-N-Dodecanoyl-L-Arginate	0.5000	0.0000	0.5000

	Hydrochloride			
47	Misc. Chemicals in R & D Lab	0.2000	0.0000	0.2000
Group D – Active Pharma Ingredients				
48	Methdilazine hydrochloride	0.0000	0.0400	0.0400
49	Phenylepherin Hydrochloride (PPH)	0.0000	0.0400	0.0400
50	Adapalene	0.0000	0.0005	0.0005
51	Tazarotene	0.0000	0.0020	0.0020
52	Glimepiride	0.0000	0.0250	0.0250
53	Telmisartan	0.0000	0.0500	0.0500
54	Rosuvastatin Calcium	0.0000	0.7500	0.7500
55	Montelukast sodium	0.0000	0.0500	0.0500
56	Olanzapine	0.0000	0.0500	0.0500
57	Moxifloxacin hydrochloride	0.0000	2.0000	2.0000
58	Topiramate	0.0000	0.2500	0.2500
59	Risperidone	0.0000	0.0500	0.0500
60	Olopatadine hydrochloride	0.0000	0.0040	0.0040
61	Escitalopram oxalate	0.0000	0.1000	0.1000
62	Brimonidine tartrate	0.0000	0.0015	0.0015
63	Strontium ranelate	0.0000	0.1000	0.1000
64	Nepafenac	0.0000	0.0008	0.0008
65	Desloratidine	0.0000	0.2000	0.2000
66	OlmesartanMedoxomil	0.0000	0.0080	0.0080
67	Nitazoxanide	0.0000	0.2500	0.2500
68	Atorvastatin calcium	0.0000	2.0000	2.0000
69	Bromfenac sodium	0.0000	0.0015	0.0015
70	Febuxostat	0.0000	0.2500	0.2500
71	Prasugrel hydrochloride	0.0000	0.0100	0.0100
72	Alcaftadine	0.0000	0.0003	0.0003
73	Cinacalcet hydrochloride	0.0000	0.0080	0.0080
74	Dapoxetinehydrochloride	0.0000	0.0250	0.0250
75	Dimethyl Fumarate	0.0000	0.0100	0.0100
76	Losartan Potassium	0.0000	1.5000	1.5000
77	Pitvastatin Calcium	0.0000	0.0050	0.0050
78	Flavoxate hydrochloride	0.0000	0.0050	0.0050
79	Flovoxamine Maleate	0.0000	0.0500	0.0500
80	Timolol maleate	0.0000	0.0050	0.0050
81	Ketoprofen	0.0000	0.4100	0.4100
82	Clopidogrel Bisulfate	0.0000	0.0410	0.0410
83	Tetrabenazine	0.0000	0.0100	0.0100
84	Agomelatine	0.0000	0.0100	0.0100
85	Rupatadine Fumarate	0.0000	0.1000	0.1000
86	Lymecycline	0.0000	0.2000	0.2000
87	Dexketoprofen trometamol	0.0000	1.0000	1.0000
88	Tropium chloride	0.0000	0.0080	0.0080
89	Dronedarone hydrochloride	0.0000	0.0800	0.0800
90	Lurasidone hydrochloride	0.0000	0.0008	0.0008
91	Milrinone	0.0000	0.0001	0.0001
92	Pramipexolehydrochloride	0.0000	0.0005	0.0005
93	Pregabalin	0.0000	0.1000	0.1000
94	Teriflunamide	0.0000	0.0050	0.0050

95	Roflumilast	0.0000	0.0001	0.0001
96	Solefenacin succinate	0.0000	0.0002	0.0002
97	Tolperisone hydrochloride	0.0000	0.0080	0.0080
98	Clonidine HCL	0.0000	0.0004	0.0004
99	DarifenacinHBr	0.0000	0.0040	0.0040
100	Doloxetine HCL	0.0000	0.0410	0.0410
	Total	12.8500	22.0180	34.8680

Details of By- Products

Sr. No.	By-product	Existing, MT/M	Proposed, MT/M	Total, MT/M
1.	Hydro Bromic Acid (30% Solution)	0.17	0.001	0.171
2.	Ammonium Chloride	0.25	0.08	0.33
3.	Acetone	0	10.00	10.00
4.	Ethyl Acetate	0	18.64	18.64
5.	Isopropyl Alcohol	0	40.00	40.00
6.	Methanol	0	112.34	112.34
7.	Methylene Dichloride	0	13.88	13.88
8.	Acetic Acid (40%)	0	0.1	0.1
9.	DAP (30%)	0	1.1	1.1
10.	Aluminium Chloride Solution	0	3	3
	Total	0.42	196.141	196.561

Violation: M/s Vadivarhe Specialty Chemicals industry for its existing operation obtained CTE vide letter no.BO/ROnsk/PCI-I/946-07/E/CC-329 dated 05.04.2007 and CTO vide consent no. BO/RO/Nashik/PCI-I/EIC No. NK-1175-07/O/CC-105 dated 29/04/2008 which was obtained after EIA Notification, 2006. The EAC (Industry II) in its meeting dated 12.05.2012 noted that the industry for its existing operation did not obtain Environmental Clearance; therefore, it is a violation of provisions contained under Environment (Protection) Act, 1986 by not following EIA Notification, 2006.

Observations and recommendations of EAC in the 27th EAC meeting held during 31st October - 1st November, 2019:

PP along with the consultant made a detailed presentation on the proposal in the 27th meeting. The EAC after detailed deliberation on the information submitted by the EAC and as presented, **deferred** the proposal for want of following submissions:

1. Worst case scenario related to the air and water in case of reaction failure.
2. Revised EIA/EMP report to be submitted by incorporating earlier Base line data with latest one-month data along with the comparison. In addition, damage assessment due to violation to be incorporated as addition chapter 13.
3. Submit the copy of credible action under section 19 of E (P) Act 1986.
4. Copy of agreement with TSDF unit for disposal of hazardous waste treatment to be submitted.
5. Revised Form 2 application to be submitted in respect to present land use, ToR letter etc.
6. Revised water balance to be submitted.
7. Compliance report from State PCB regarding CTO.
8. Plant is operating hence net profit to be loaded into damage cost.
9. ToR compliance to be incorporated in the EIA/EMP report and also to be presented before the EAC.

10. Damage cost to be revised on the basis of quantification of damage to air, water, Noise, ecology, soil during construction phase and operation phase. Remediation plan shall be prepared accordingly and submitted.

11. Economic benefit derived calculation shall be submitted based on the benefit accrued during violation period and EMP cost saving.

Observations and recommendations of EAC in the present (36th) meeting

Project proponent submitted the above information to the Ministry through Parivesh portal on 25.08.2020 and accordingly proposal was considered in the present meeting (36th). Project proponent alongwith the consultant made the detailed presentation before the EAC on the additional information sought by the EAC in the 27th meeting including worst case scenario related to the air and water in case of reaction failure, revised EIA/EMP report incorporating earlier base line data with latest one-month data along with the comparison, revised damage assessment cost etc. PP apprised EAC that there will be no discharged effluent to outside of the premises as reused in plant. Hence unit will achieve zero liquid discharge unit.

EAC after detailed presentation observed that PP has submitted the damage cost of Rs 128.62 lakhs and prepared the Remediation plan, Natural and Community Resource Augmentation plan accordingly. EAC further noted the MPCB letter 22.10.2019 on the credible action wherein it has been informed that MPCB has Directors of the said company were convicted u/s 15 of the E (P) Act and paid the fine. EAC also noted that the EIA/EMP Report has been revised with the addition of recent one-month environmental monitoring data (January 2020).

EAC deliberated on the information presented and as submitted by the PP, opined that based on the MPCB clarification vide letter dated 22.10.2019, further action under section 19 of E (P) Act is not required. EAC further directed PP that damage assessment cost, EMP cost shall be revised as suggested during the meeting. Further, EAC also deliberated on the worst case scenario and opined that PP shall submit undertaking for conducting 3 D modelling studies for Risk Assessment (RA) comprising identification of hazards, consequence analysis due to the accidental release of hazardous chemicals, quantification of risk based on failure probability of equipment, mitigation measures to reduce risk and delineation of disaster management plan.

EAC advised PP to present the above information before the committee during the meeting i.e on 22.09.2020. As advised by the EAC, PP made the detailed presentation on the observations of the EAC on 22.09.2020. EAC after detailed presentation by the PP observed that PP has now submitted the damage cost of Rs 216.82 lakhs and accordingly prepared the RP, NRA and CRA. EAC also noted that PP has submitted the detailed CER with the cost of Rs 27.9 lakhs to be spent in five years and revised EMP cost of Rs 241.60 lakhs (Capital cost: 211.60 lakhs & Recurring: 30.00 lakhs).

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 the following Specific conditions in addition to all Standard conditions applicable for such projects:

- i. EAC recommended for an amount of Rs 216.82 Lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details are given on next page:
- ii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 216.82 lakhs. Therefore, project proponent shall be

required to submit a bank guarantee of an amount of Rs. 216.82 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. 27.90 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.

Remediation Plan and Budgetary Provisions

Sr. No.	Environmental component	Activities Proposed	Budgetary provision			Total (in lakhs)
			1 st Year	2 nd Year	3 rd Year	
1.	Air Environment a) Ambient Air b) Air Pollution	<ul style="list-style-type: none"> Dust Suppression and water sprinkling. Provision of Barricades Thick plantation along road side and plantation in two villages 	50.00	40.00	23.67	113.67
2	Noise Environment	Supply of personnel projective equipments	0.60	--	--	0.60
3	Water Environment	<ul style="list-style-type: none"> Provision for construction of Rain water harvesting tanks in schools of 5 villages of size 500 cubic meter Construction of water drainages in 5 villages 	6.00	6.00	4.50	16.50
4	Land Environment	Leachate proof storage facility for chemicals and solvents	0.20	--	--	0.20
5	Ecology	G.B. and plantation	5.00	2.50	--	7.50
6	Solid and hazardous waste	<ul style="list-style-type: none"> Provision of coloured bins Provision of storage facility Provision of OWC 	10.00	10.00	5.00	25.00
7	Socio-economic	First aid kit and health check up	0.50	0.25	0.25	1.00
		TOTAL	72.30	58.75	33.42	164.47

Community Welfare Augmentation Plan and Budgetary Provisions

Sr. No.	Activities Proposed	Yearwise Implementation and Budgetary provision in Rs.			Total cost (Rs.)
		1 st Year	2 nd Year	3 rd Year	
1.	Development of sanitation facilities in (provision of 5 toilets in each year per village)	2,00,000	2,00,000	2,00,000	6,00,000
2	Medical check-up camp in nearby areas for villagers and supply of medicines	75,000	1,00,000	1,50,000	3,25,000
3	Assistance in providing study materials, uniforms, books to the poor students (50 students)	50,000	70,000	90,000	2,10,000
4	Training of farmers in nearby village on advance agriculture/ irrigation practices and water conservation	2,00,000	2,00,000	1,00,000	5,00,000
5	Construction of community hall in 3 villages @ 5 lakhs in each villages	5,00,000	5,00,000	5,00,000	15,00,000
	TOTAL	10,25,000	10,70,000	10,40,000	31,35,000

Natural Resources Augmentation Plan and Budgetary provisions

Sr. No.	Activities Proposed	Year wise Implementation and Budgetary provision in Rs.			Total cost (Rs.)
		1 st Year	2 nd Year	3 rd Year	
1.	Development of Greenery in the surrounding area and road side plantation (along the state highway abutting the project side (300 trees in the surrounding area and 200 trees roadside total 500 trees with maintenance @ 1500/- per tree total cost Rs. 750000/-) in consultation with NHAI for AH – 47.	250000	250000	250000	750000
2	Provision of drinking water facilities through hand pumps/ dugwells/ tube wells (2 hand pumps/ wells per year in the nearby villages each year with maintenance)	50000	50000	50000	150000
3	Providing solar street lights comprising of MS pole, solar panel, LED lamps, battery wiring etc. for Vadivarhe&Gonde Village, 10 street lights for Vadivarhe&Gonde village with complete set up @ Rs. 200000	0	300000	300000	600000
4	Repair and maintenance of roads in the nearby villages (Vadivarhe&Gonde village) with the help of gram Panchayat	200000	200000	200000	600000
	TOTAL	500000	800000	800000	2100000

Summary

Sr. No.	Activity Proposed	Total (Rs. in lakhs)
1.	Remediation plan	164.47
2.	Community Resource Augmentation Plan	31.35
3.	Natural Resource Augmentation Plan	21.00
	Total	216.82

- vi. Preventive measures to be taken to control ignition sources in bulk storage area and fire protection system to be established above ground storage tanks. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
- vii. Proper measures to be taken to prevent internal tank explosion. Chemicals that are water reactive needs to be separated from chemicals that do not react with water.
- viii. Proper precautions to be taken to prevent inadvertent mixing of chemicals. Standard operating procedures to be strictly followed during handling of chemicals. Solvents shall be stored in a separate space specified with all safety measures.
- ix. Risk assessment studies conducting 3 D modelling studies for identification of hazards, consequence analysis due to the accidental release of hazardous chemicals, quantification of risk based on failure probability of equipment, mitigation measures to reduce risk and delineation of disaster management plan shall be undertaken and submitted to the Ministry within 3 months.

36.3.2 Proposed 70200 TPA of Limestone production including subgrade and OB from Putka Limestone Mine (MLA 97.013 Ha) of M/s Jyoti Pramanik located at Village Putka, District Bargarh (Orissa)–reconsideration for Terms of Reference [Old Proposal No. IA/OR/MIN/23194/2014 dated 16.05.2017] [F. No. 23- 151/2018-IA.III (V)]

The Project Proponent and the accredited Consultant(Kalyani Laboratories Pvt. Ltd.) made a detailed presentation on the salient features of the project. Details submitted by the PP are as under:

1. Project description

The Proposal of M/s Putka Lime Stone is for Mining of Lime stone from Putka Mine for Total Excavation:70,200 Tonne per annum (TPA) [Lime stone : 45840TPA + Subgrade – 5480 TPA+ OB-18800 TPA] from mining lease area 97.031 hectares located at Villages: Putka, Tehsil: Paikimal, District Bargarh of Odisha State by Sri Jyoti Pramanik.

2. Project Background

The proposal of Sri Jyoti Pramanik of Putka Lime Stone is for production of 70, 200 Tonne per annum (TPA) of Lime Stone including overburden from Putka Mine- (ML Area 97.031 Ha, located at Villages Putka, Tehsil, District Bargarh, Odisha State. The mining lease is located on Survey of India Topo-sheet no. 64 K/ 16. The area is bounded between the coordinates Latitude 21⁰ 10' 40.4" to 21⁰ 11' 02.4" Nto N and Longitude 82° 57' 58.7" to 82⁰ 57' 38.3" E.

3. Category of the Project (Refer cluster certificate if applicable)

The said project is covered under Category – A", Project or Activity 1(a) of the Schedule to the EIA Notification, 2006 as amended, and requires prior EC from the MoEF & CC based on the appraisalbyExpert Appraisal Committee because of presence of interstate boundary adjacent to NW boundary of the project site

4. Violation Details & Sectorial EAC/ SEAC Comments:Mining operation started without

taking prior Environment Clearance.

5. Application (Form-1 &PFR)

Fresh application was made online vide proposal no.J-11015/167/2014-IA.II (M) dated 23.11.2018 under violation category for Term of References (ToR) in terms of provision of the Ministry's Notification S.O 804 (E) dated..... and submitted Form-land PFR. The proposed project activity is covered under 'Schedule 1 (a) of EIA Notification, 2006 and is a category 'A'.

6. Details of Minerals:

Number of minerals whether mineral is major or minor. Status of same mineral before 2006 (major or minor):

Name of the Mineral: Limestone, Major Mineral. The mines was executed on 13.09.2007.

7. Letter of Intent (LoI)/Mining Lease Details:

The lease was granted on 25.09.1994 and the lease deed was executed on 13.09.2007 and under section 8(A) of MM(D&R) Act, 2015 (as amended), the lease period is deemed to have been extended up to 24.09.2024.

Method of Mining & Mining Plan Details:

- The Mining Plan was approved by IBM/DMG vide LR No.MPM/OTFM/06-ORI/BHU/2016-17, dated 02.09.2016. As per which the method of mining shall be opencast/ underground/ mechanized etc.
- The various mining operations such as drilling, blasting, excavation, loading, sizing and transportation will be done by jack hammer drill as well as 100mm dia DTH drill on single shift basis. Height and width of the benches will be kept at 3m and 6m respectively. The individual bench faces will be kept nearly vertical (75° - 85°) whereas the overall quarry slope angle (the angle between the line joining the toe of bottom bench and the crest of the top bench with the horizontal) is proposed to be kept at less than 27° with the horizontal
- There exist six number of waste dumps in the lease area having 0.510 ha, 5202 cubic meter has been dumped over six dumps. 4320 cubic meter waste consists of mud, clay, phyllite and shale has been dumped over an area 0.216 ha. About (5202-4320) 882 cubic meter waste will be rehandled or removed due to lateral expansion from dump no 1, 1A, 1B, 2, 2A.
- Water requirement for the project: 25 KLD

Year wise Plantation:

Year of scheme	Corresponding financial year	Area Proposed (m ²)	No. of saplings required	Species proposed
1 st	2016-17	2000	500	Mango, Mahul, Kendu, Neem, Karanj, Tentuli,

				etc.
2 nd	2017-18	2000	500	-do-
3 rd	2018-19	2000	500	-do-
4 th	2019-20	2000	500	-do-
5 th	2020-21	2000	500	-do-
Total		10,000	2,500	---

□ Land use as per mining plan at the end of plan period and at conceptual stage.

SL No.	Type of land use	As at present (ha)	As at the end of scheme of period of 5 years (ha)	As at the end of conceptual period (life of mine) (ha)
1	Area under excavation	2.250	4.692	8.349
2	Storage for Topsoil	-----	0.239	0.578
3	Overburden dump	0.510	1.277	2.010
4	Mineral storage	1.649	3.470	3.470
5	Infrastructure (workshop, administrative building etc .	-----	0.050	0.050
6	Road	0.420	0.820	0.820
7	Railways	-----	-----	-----
8	Green belt	-----	1.000	5.000
9	Tailing pond	-----	-----	-----
10	Effluent Treatment Plant	-----	-----	-----
11	Mineral Separation plant	-----	0.530	0.530
12	Township area	-----	-----	-----
13	Others	0.010	0.10	0.10
	Sub Total	4.839	12.088	20.817
14	Undisturbed	92.192	84.943	76.214
	Total	97.031	97.031	97.031

8. Other Waste Generation, if any:

Total waste will be generated 56600 cubic meter.

Year	OB (cubic meter)
2016-17	7600
2017-18	8700
2018-19	8100
2019-20	16700
2020-21	15500
Total	56600

There exist six numbers of dumps in the lease area having 0.510 ha. 5202 cubic meter has been dumped over six dumps Waste consists of mud, clay, phyllite and shale has been dumped over an area 0.216 ha. About (5202-4320) 882 cubic meter waste will be re handled or removed due to lateral expansion from dump no 1, 1A, 1B, 2, 2A. About 56600

cubic meter waste will be generated during 2016-17 to 2020-21. This waste will be re handled in due course.

9. Land Use(Forest/Agricultural/Waste):

Type of Land	Area in ha.
Agricultural Land	61.747
Waste Land	34.034
Road , etc.	1.250
Total	97.031

10. Details of past production since inception of mine authenticated byDMG

Year	Actual production (MT)
1992-93	150
1993-94	150
1994-95	50
1995-96	410
1996-97	68.600
1998-99	Nil
1999-2000	Nil
2000-01	5.500
2001-02	4.480
2002-03	0.00
2003-04	Nil
2004-05	Nil
2005-06	Nil
2005-06	Nil
2006-07	3316.400
2007-08	502.860
2008-09	Nil
2009-10	Nil

11. Applicability of General Condition & Status of SEIAA:No wild life sanctuaries exists within 10 Km radius of ease area

12. Aravalli/Doon Valley/ Western Ghats/Eco-Sensitivearea: Nil

[Submit details about Aravalli/Doon Valley/ Western Ghats/Eco-Sensitive area, if any]

13. Project Cost &Employment:Employment: Total 60 worker will be employed in the mine. (Skilled: 18 nos, semi skilled: 24nos ,Unskilled:18nos.)

Description	Total cost in Rs. (during scheme period)
Dump stabilization (Reclamation)	2, 50, 000.00
Pollution control (water sprinkler)	3,50,000.00
Occupational Health (Medical checkup)	1,00,000.00
Greenbelt	1,00,000.00
Pollution Monitoring	1,50,000.00
Others (Garland drain, etc)	50,000.00
Total	10,00,000.00

14. Status of DSR, in case of minor mineral: This is the project regarding mining of major minerals

Observation and recommendation of the EAC in the earlier meetings: Project Proponent did not attend the earlier EAC meetings (9th , 25th , 27 th)

Observation and recommendation of the EAC in the 34th EAC meeting.

EAC noted that documents essential for appraising the proposal for ToR have not been submitted, as per the requirement of the Ministry. EAC, therefore, **deferred** the project and advised PP to make a detailed presentation on the proposal after submitting the following documents to the Ministry:

1. Form 1 having details of violation, General Condition and total excavation including OB/waste etc in TPA
2. Pre-Feasibility report
3. Mine lease document/LOI from the mining department for renewal of mining lease up to 2024.
4. Affidavit as per the Ministry's OM dated 30.05.2018.
5. Past production details authenticated by the State mining department since inception of mine.
6. kml file

Observation and recommendation of the EAC in the 36th EAC meeting dated 21st September, 2020 – 22nd September, 2020 (present meeting):

Project Proponent vide letter dated 01.07.2020 submitted the information to the Ministry and accordingly proposal was considered in the 36th meeting dated 21st– 22nd September, 2020(present meeting). PP along with the consultant Kalyani Laboratories Pvt. Ltd., Plot No. 78/944, Pahala, Bhubaneswar made the detailed presentation before the committee on the information sought by the EAC in the 34th meeting.

After detailed presentation by the PP, EAC noted that instant mining is for major mineral (total excavation of 70,200 TPA (Max) {Lime stone : 45840TPA + Subgrade – 5480 TPA+ OB-18800 TPA) and PP has exceeded the base level production of 1993-94 in the year1995-96 without

taking environment clearance under 1994 notification, hence instant mine is under violation since 1995-96. EAC also observed that in regard to LoI, PP has submitted the letter dated 22.06.2020 from the Deputy of Mines, Sambalpur wherein it has been mentioned that lease granted prior to 12.01.2015 shall be deemed to have granted for a period of 50 years under the MMDR Act and the lease of Sri Pramanik comes under section 8A (3) of MMDR Act 2015. EAC noted that a case has been initiated at SJDM, Padampur vide CC no: 02 of 2015 on dated 26.09.2015 for violation of Environment (Protection) Act, 1986.

EAC deliberated on the letter dated 22.06.2020, regarding mine lease renewal from Deputy Director of Mines. EAC accepted the letter from the Deputy Director of Mines, however directed PP to submit the valid lease document at the time of submission of EC application.

EAC after detailed deliberation **recommended** the proposal for issuing Standard Term of Reference 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. Status of Court case filed under section 19 of E(P) Act 1986 at SJDM, Padampur vide CC no: 02 of 2015 on dated 26.09.2015 for violation.
- 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 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. Public Hearing (PH) has been conducted on dated 04.11.2016 for the 70,200 TPA of production capacity covering all the issues and was valid at the time of submission of application to the Ministry, committee felt that one time PH as per the order of Hon'ble High Court of Madras has already taken care and hence repeat PH is not required
- vii. One season base line data is to be collected and reported in the EIA/EMP report with comparison.

- viii. 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.
- ix. 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.
- x. Approved mining plan shall be submitted alongwith EIA/EMP report.
- xi. DGMS permission is to be submitted for blasting at project site, if any.
- xii. 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.
- xiii. 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.
- xiv. Greenbelt development/Bio-diversity Conservation Plan to mitigate the impacts along the budget estimate towards ecology restoration and maintenance shall be prepared.

36.3.3 Limestone Mining Project with lease area of 12.14 Ha. at Survey No. 78/5 (Govt. Waste Land) and production capacity of 2,85,500 TPA. Near village Ranavav, Taluka Porbandar District Porbandar (Gujarat) by M/s Shri Udaysinh M. Jethwa – regarding fresh environmental clearance [Proposal No. IA/GJ/MIN/64678/2017 dated 13.05.2017] [F. No. 23- 165/2018-IA.III (V)]

The Project Proponent and the accredited Consultant (Fugro Environmental and Engineering Services (I) Pvt Ltd) made a detailed presentation on the salient features of the project. Details submitted by the PP are as under:

1. Name of the project: Limestone Mining Project
2. Name of the Company, Address Tele No. & E-mail Head of organization: Sh. Deva Kara Bhutiya (Power of Attorney Holder), R/o Gatral Bhawan, Satyam Park, Rajiv Nagar, District: Porbandar, Gujarat **E mail:** ranavavmine@gmail.com
3. If a Joint venture, the names & addresses of the JV partners including their share: NA
4. Latitude and Longitude of the project

S.No	Pillar	Latitude	Longitude
1	BP 1	21°41'38.93"	69°45'31.97"
2	BP 2	21°41'47.30"	69°45'35.10"
3	BP 3	21°41'54.41"	69°45'37.75"
4	BP 4	21°41'54.44"	69°45'42.91"
5	BP 5	21°41'50.80"	69°45'40.48"
6	BP 6	21°41'46.92"	69°45'40.66"
7	BP 7	21°41'48.88"	69°45'43.51"

8	BP 8	21°41'58.44"	69°45'48.28"
9	BP 9	21°41'58.78"	69°45'50.09"
10	BP 10	21°41'49.06"	69°45'50.48"
11	BP 11	21°41'48.78"	69°45'44.57"
12	BP 12	21°41'46.27"	69°45'40.98"
13	BP 13	21°41'45.74"	69°45'40.60"
14	BP 14	21°41'37.66"	69°45'38.73"

5. Whether the project is in the Critically Polluted Area(CPA): No
6. Cost of the project: 25.00 Lac
7. Employment generated/ to be generated: Total manpower requirement during the mining activity is estimated to be about 18
8. Benefits of the project: The project activity and the management will provide assistance for the development of public amenities in the region. The mine management will recruit semi- skilled & unskilled eligible workers from the nearby villages. The management will contribute to the needs of the local schools, dispensaries for the welfare of the villagers. The overall effect will be improved by power of employees and thus a higher standard of living viz. better education, improved health and sanitation facilities and housing.
9. Whether new or expansion project. If expansion: New project
10. If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006.: NA
11. No. and Date of the ToR /and revised ToR, if any, letter issued by the MoEF (if this is a case for EC)- Yes (No.23-165/2018-IA.III(V) and and Date of the grant of ToR:07/06/2019).
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 (it is a Fresh Proposal).
13. If the project was considered in EAC, Pl.give dates of the meeting (s): Earlier the said limestone mining project was considered in 15th EAC meeting (violation category) on dated 27th November, 2018.
14. Type of Mine: (Open cast/Underground/mixed): Open Cast.
15. Capacity of the mine applied for: 1,25,025 TPA (ROM).
16. ML Area: 12.14 ha.
As per block allotment: 12.14 ha.
As per approved mine plan: 12.14 ha.
17. Date of approval of mine plan, mine closure plan, status & date: 24.01.2018.
18. Date of Ground water clearance and surface water approval - Water demand will be met available by borewell present at the mine site. Applications for the grant of

CGWA NOC has been filed vide no. 21-4/4689/GJ/ MIN/ 2018 on dated 28/12/ 2018 for 5.00 Kld abstraction of ground water and it is currently under process.

19. Existing Ground water level in (M) – Pre-Monsoon: 22 m bgl
Post-Monsoon: 20 m bgl
20. Date of mine closure approval: 24.01.2018
21. Any river/Nallah flowing near or adjacent to the proposed mine. If yes, please give details.
- ❖ Khambhala Talav (~3.8 km towards NNW direction from mine lease area).
 - ❖ Dhangva River (~5.82 km towards North-East direction from mine lease area).
 - ❖ Arabian Sea Creek (~5.50 km towards SSW direction from mine lease area).
 - ❖ Dobaliya Talav (~8.00 km towards West direction from mine lease area).
 - ❖ Ghodhara Talav (~9.20 km towards North of North-West direction from mine lease area)
 - ❖ One seasonal Nallah is passing through the mine lease area in East direction of mine lease.

22. Details of mine lease:-

1. Date of entering into original lease deed: 10/2/1975	1. Date of 1 st lease renewal: 02/08/1994	1. Date of 2 nd lease renewal 17/2/2014	1. Date of 3 rd lease renewal: 02/02/2018
2. Date of expiry of original lease deed 09/02/1995	2. Whether renewal or deemed renewal: Renewal	2. Whether renewal or deemed renewal: Renewal	2. Whether renewal or deemed renewal: deemed Renewal
	3. Date of expiry of 1 st lease renewal 09/02/2015	3. Date of expiry of 2 nd lease renewal: 09/2/2035	3. valid till: 17/02/2025

TECHNICAL DETAILS

23. Geological Reserve:
- a. Total geological reserve: 10,27,625 MT
 - b. Mineable reserve: 7,18,625 MT
 - c. Extractable reserve: 1,25,025 TPA (ROM)
 - d. Per cent (%) of extraction: 69.93 %
 - e. Range of ground water level: Pre-monsoon: 22 m bgl, Post-monsoon- 20 m bgl
 - f. Total estimated water requirement: 5 KLD
 - g. Details of intersecting ground water level- No any intersection of ground water table will be done by the Mining activity as mining activity will be carried out up to 6 m bgl till the end of life of mine and water table is 20-22 mbgl.
24. Details of Deposits:
- a. Depth of over body: NA
 - b. Grade of ore: 1:0
 - c. Stripping ratio: 1:0
25. Method of mining: Opencast Semi-mechanized
26. Life of mine: 6 Year as per the approved mining plan.

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, (From Dec, 2018-February, 2019) and the results for PM₁₀ , PM_{2.5}, SO₂, NO_x and CO at ambient air quality monitoring locations and are within the CPCB prescribed limits.
28. Whether the monitoring report of earlier EC from MoEF Regional Office has been obtained, in case the proposal is for expansion- Not Applicable for the said mining project.
29. Details of O.B.
30. External OB dumps: Nil
- No of OBdumps: Nil (recovery of mineral limestone is 100 %)
 - Area of eachdump: Nil
 - Height of eachdump: Nil
 - Quantity (in MCm) of OB in eachdump: Nil
 - Year of backfilling: Nil
 - No. of OB dumpsreclaimed: Nil
 - If garland drains and settlement facility for runoffcreated: NA
 - Whether runoff water beingutilized: --
31. Details of InternalDumps
- Number of internal dumps: Nil
 - Area of each dump: Nil
 - Height of each dump: Nil
 - Quantity of wastes filled (MCm): Nil
32. Utilization potential ofwastes
- Within the mines: NA
 - Outside mines: NA
 - Efforts made by proponent: NA
33. Details of final MineVoids
- Area: 5.86 ha. (58,600 sq. mtr)
 - Depth: 6 m from the lowest surface level.
34. Details ofQuarry:
- Total quarry area : 12.14 ha
 - Backfilled quarry area of _ ha. shall be reclaimed with plantation.
 - A void of 5.86ha. at an depth of 6.00 m which is proposed to be converted into a water body.
 - Green belt created in **4.00** ha.
35. Details of Landusage
- (i) Pre-Mining

S.No.	Land Use	Within ML Area (Ha.)	Outside ML Area (Ha.)	Total (in ha.)
1.	Agriculture Land	--	--	--

2.	Forest Land	--	--	--
3.	Waste Land	12.14	--	12.14
4.	Grazing Land	--	--	--
5.	Surface water bodies	--	--	--
6.	Settlements	--	--	--
7.	Other(Specify)	--	--	--

Post-Mining

S.No.	Land Use during Mining	Land Use (Ha.)				
		Plantation	Water Body	Public use	Undisturbed	Total (Ha.)
1.	External OB Dump	--	--	--	--	--
2.	Top Soil Dump	--	--	--	--	--
3.	Excavation	--	5.86	--	--	5.86
4.	Roads	--	--	--	--	--
5.	Built up area	--	--	--	--	--
6.	Green Belt	4.00	--	--	--	4.00
7.	Undisturbed area	--	--	--	2.28	2.28
	Total	4.00	5.86	--	2.28	12.14

III. Core area: 5.86 ha. (Water reservoir), 4.00 ha (Green Belt area), 2.28 ha (Undisturbed area)

36. Details of Forest issues: Non-Forest land

- a. Details of wild life issues involved, if any. If so, whether WL management plan has been prepared; pl. indicate the status.: Yes, Schedule –I faunal species are present with in 10 km radius of the study area as per the Direct evidence during field survey /as per authentic list of Flora and Fauna issued by Forest dept., Porbandar and it is approved by DCF, Porbandar.
- b. Whether schedule -I species, if yes conservation plan is approved by CWLW? Yes, and conservation plan is approved by DCF, Porbandar.

37. Costs of the project:

- a. Total capital Cost: 25.00 Lac
- b. Cost of Production: 202.75 per metric ton
- c. Sale Price: Rs 250.00 per metric ton
- d. CER cost: 2.80 Lac per annum
- e. R&R Cost: NA
- f. No of PAFs: NA
- g. Cost for implementing EMP: 12.227 Lac per annum

38. Details of villages/habitation in mine lease area

- a. Inside the lease: NA
- b. Surrender by lease: NA
- c. Extent of cropland acquired/ being acquired in ha.: No

- 39. Details of transportation of mineral**
- a. Inpit: Tipper & Trucks
 - b. Surface to siding: Trucks
 - c. Siding to loading: Tipper & Trucks
 - d. Quantity being transported by Road/Rail/conveyer /ropeway: 454 TPD mineral limestone will be transported by roadways to Ultratech cement plant, Rajula, GHCL, Sutrapada and Reliance industries, Hazira.
 - e. Proposed change in transportation means it any, give details: No change in transportation means.
- 40. Details ofreclamation:**
- a. Afforestation shall be done covering an area of **4.00** hectare at the end of life of mine. This will include:
 - i. Reclaimed external OB dump (in ha) :Nil
 - ii. internal dump (in ha): Nil
 - iii. Green belt (in ha.): Total 4.00 ha area will be developed as green belt upto the end of life of mine.
 - iv. Density of tree plantation (in no of plants) 1500 trees per ha.
 - v. Void (5.86 ha) at a depth of (6 m)which is proposed to be converted into water body.
 - 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).: --
 - vii. Agriculture and horticulture: --
 - viii. Fisheries: Nil
 - ix. ECO Tourist/recreation spot: --
- 41. Any court case pending. If so, please provide a list with details asannexure.**
- (i). Environment (Protection) Act– No
 - (ii). Air (P&CP) Act- No
 - (iii). Water (P&CP) Act No
 - (iv). MMRD Act- No
 - (v) The Factories Act- No
 - (vi) Other land R&R related cases- No
- 42. Any violation cases pending. If so, please provide a list with details asannexure: No**
- 43. Give details of actual production vis-à-vis sanctioned capacity since the inception of mine in following format or since 1993-94 asapplicable:**

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity
1993-1994	--	--	--
1994-1995	--	50.00	50.00
1995-1996	--	40.00	40.00
1996-1997	--	40.00	40.00

1997-1998	--	238.935	238.935
1998-1999	--	46661.200	46661.200
1999-2000	--	12695.600	12695.600
2000-01	--	9044.800	9044.800
2001-02	--	54843.305	54843.305
2002-03	--	17031.915	17031.915
2003-04	--	16664.130	16664.130
2004-05	--	16575.495	16575.495
2005-06	--	8696.445	8696.445
2006-07	--	12522.845	12522.845
2007-08	--	13012.100	13012.100
2008-09	--	8340.092	8340.092
2009-10	--	3090.03	3090.03
2010-11	--	60.00	60.00
2011-12	--	0.00	0.00
2012-13	--	0.00	0.00
2013-14	--	0.00	0.00
2014-15	--	20540.00	20540.00
2015-16	--	5600	5600
2016-17	--	84350.00	84350.00
2017-18	--	199560.00	199560.00
2018-19	--	41000.00	41000.00

44. Date and Place of public hearing: 07/01/2020 and Place of public hearing is at Mine site(Survey No.78/5/P), Near village & Tehsil-Ranavav, Porbandar (Gujarat). The designation of officer presided our the PH: District collector and District magistrate, Porbandar

45. Violation: Operated mine without Environment Clearance

Observation and recommendation of the EAC in the 36th EAC meeting (present meeting):

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 Barda Wildlife Sanctuary (~1.771 km towards NNW direction from mine lease area) and ESZ is at the distance of ~0.224 km towards North-East direction from mine lease area. Method of mining for the limestone mine is open cast semi-mechanized (No drilling and blasting involved). No forest land is involved. EAC after detailed deliberation on the information submitted by the PP (Form 2, EIA/EMP report, PH details, kml file etc) and as presented, **deferred** the project for want of following information:

1. Certificate from the Chief Wildlife warden regarding exact distance of Barda Wildlife Sanctuary and ESZ from the project site with respect to satellite imagery.
2. Safety measures for Nallah falling in the project area and restoration plan for Nallah.
3. Approved Mining plan to be submitted
4. Total project cost shall be revised with proper justification.

5. Damage assessment cost shall be revised for all the environmental attributes as suggested by the committee, accordingly RP, NRA and CRA shall be prepared.
6. Status of Credible action.
7. Pre mining and post mining land use plan shall be revised and submitted.
8. Protective measures for the state highway passing thru the area.
9. As mine lease is allotted prior to 1993 therefore production details authenticated by the mining department, prior to 1994-95 shall be submitted.
10. Greenbelt Development & Ecology Restoration programme with Budgetary provisions (for the 1st two years) to mitigate the Predicted impacts.

36.3.4 Bhadrāsahi Iron & Manganese Mines (M.L. Area 998.70 Ha) for enhancement of Iron ore production to 1.8 MTPA and Manganese ore to 0.12 MTPA at Village Roida, Tehsil Barbil, District Keonjhar, Odisha by M/s Orissa Mineral Development Company Ltd. - Further consideration for Terms of Reference [Proposal No. IA/OR/MIN/68467/2008 dated 11.09.2017] [F. No. 23- 212/2018-IA.III (V)]

Project proponent alongwith the consultant (Wolkem India Limited) made the detailed presentation before the EAC and provided the following information:

1. Project description

The Proposal of M/s The Orissa Minerals Development Company Ltd. (OMDC) is for Mining of - Iron and Manganese from -Bhadrāsahi Iron and Manganese Ore Mining Lease for Total ROM Excavation 1.8 Million Tonne Iron ore per annum (MTPA) and 0.12 Million Tonne Manganese ore per annum (TPA) from mining lease area of 998.70 Ha located at Villages - KolhoRoida, BhuyanRoida, Kundrupani, Chattabara, Bichakundi and SidhamathaRF Tehsil-Barbil District –Keonjhar, State-Odisha by M/s The Orissa Minerals Development Company Ltd. (OMDC).

2. Project Background

The proposal of M/s The Orissa Minerals Development Company Ltd. (OMDC) is for mining of 1.8 Million Tonne Iron ore per annum (MTPA) and 0.12 Million Tonne Manganese ore per annum (TPA) from - Bhadrāsahi Iron and Manganese Ore Mining Lease - (ML Area 998.70Ha, located at Survey No.- , at Villages- KolhoRoida, BhuyanRoida, Kundrupani, Chattabara, Bichakundi and Sidhamatha RF, Tehsil -Barbil, District-Keonjhar, State-Odisha. The mining lease is located on Survey of India Topo-sheet no. 73-F/8 & 73-G/5. The area is bounded between the Latitude 21⁰ 58' 47.97249" to 22⁰ 01' 40.35400" N and Longitude 85⁰ 21' 26.50463" E to 85⁰ 24' 26.21951" E

3. Category of the Project (Refer cluster certificate if applicable)

The said project/activity is covered under category-A of item 1(a) (i) of the Schedule to the EIA Notification, 2006 as amended, 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.

4. Violation Details & Sectorial EAC/SEAC Comments:

The mine is closed since 2010 for want of Environmental & other statutory clearances. Prior to the year 1994, the highest annual production of iron and manganese ore are 1,42,468.93Tonne and 1,31,424.53Tonne respectively. After the EIA Notification, 1994

coming into force, the highest annual production of iron and manganese ore are 14,33,000 t and 94205 t, respectively. This is a case of violation (in the case of iron ore).

SI No.	Date	Letter No.	Subject Brief
01	04.06.2008	Letter No. OMD/L-10/1425	OMDC submitted Form 1 for approval of Terms of Reference (TOR) for Rapid EIA/EMP
02	24.03.2009	Letter No. J-11015/285/2008-IA-II(M)	MoEF prescribed TOR in meeting held on 17-19 Feb, 2009
.03	02.03.2010		OMDC submitted Documents (EIA, executive summary etc along with processing Fee of Rs.75,000/- for conducting Public Hearing.
2.04	24/01/2011	OMD/L-10/BBSR/01	OMDC submitted application form and Performa along with annexure and documents in connection to obtain EC.
05	28/09/2011	Ref.OMD/L-10/1357	OMDC requested for consideration of presentation before the EAC for grant of EC.
06	17.10.2011	BGC/BBSR/OF/180	OMDC submitted Public Hearing Documents
07	18.04.2012	OMD/L-13/350	OMDC Submitted point wise clarification of proceeding of EAC (Mining) meeting held on 23.12.2011
08	July 2012	---	EAC Committee recommended the proposal for Environment Clearance
<i>As stage-I Forest Clearance could not be obtained within 18 months of recommendation by EAC, validity of Tor expired</i>			
09	14.09.2014		Fresh Application made for TOR
10	07.11.2014		MoEF intimated the proposal to be considered after considering the outcome of carrying capacity study by NEERI.
11	09.09.2017	OMDC/BH/2017-18/3799 dated 09-09-2017	Application made in violation category for obtaining EC
.12	01.08.2018		Agenda for presentation OMDC requested to give next date for presentation
			OMDC is appearing Presentation of TOR on date 22/05/2019 as per agenda of 22nd EAC(Violation)

5. Application (Form-1 &PFR)

Fresh application was made online vide old proposal no. [IA/OR/MIN/68467/2008](#) dated [11.09.2017](#) under **violation category** for Term of References (ToR) in terms of provision of the Ministry's Notification S.O804(E) dated 14.03.2017 and submitted Form-1 and PFR. The proposed project activity is covered under Schedule of EIA Notification, 2006 and is a category 'A'.

6. Details of Minerals:

Number of minerals. Whether mineral is major or minor. Status of same mineral before

2006 (major or minor): Two Major minerals named Iron & Manganese.

7. Letter of Intent (LoI)/Mining LeaseDetails:

Original Grant (First Grant)	08.11.1941 to 30.09.1960 This period the lease area granted over 8.73 sq. miles)
First Renewal	Period: 01.10.1960 to 30.09.1980 (This period the lease area granted over 7.11 sq. miles)
Second Renewal	Period: 01.10.1980 to 30.09.1990 (This period the lease area granted over 3.86 sq miles)
Third Renewal	Period: 01.10.1990 to 30.09.2010 (This period the lease area granted over 998.70 Ha)
Fourth Renewal	Date of Application: 10.08.2009 Applied for a period of 20 years w.e.f. 01.10.2010 to 30.09.2030

8. Valid Lease Document:The lease period has been extended for the applied term of 20 years w.e.f 01.10.2010 to 30.09.2030 vide letter No.1262/SM, Bhubaneswar dated 06.02.2020 by the State Govt as per Mineral (Mining by Government Company) Rules, 2015.

9. Method of Mining & Mining Plan Details:

- Bhadrasahi is an open cast mine, where mining is carried out by drilling, blasting followed by excavation of loosened material by hydraulic shovels and loading them onto tipper trucks.
- The height & width of benches in case of iron ore mines will be 6m & 10m respectively in order to ensure the safety in the mining operations. Similarly, the height & width of the benches in case of Manganese ore will be 6m & 10 m respectively.
- The bench slope angle is considered at 65 deg. and the overall slope angle will be below 45 deg. Both the iron & manganese mines will be worked by mechanized means, whereas laborers need to be deployed for sorting of the manganese ores from the blasted face to improve the recovery of manganese ore.
- On account of exposures of iron & MN ore and its limited depth of occurrence, open cast Category-A (fully mechanized) method of mining will be adopted which will be continued on 2/3 shift basis daily.
- Loosening of the hard rock mass will be affected through drilling and blasting. Blasting will be done by charging of the shot/blast holes drilled either in single or multi rows on staggered pattern. 1 m³ & 3 m³ capacity excavators will be used for excavation & loading of the blasted materials in to 20t capacity tippers which will unload it into the hopper of the 100tph capacity crusher unit.

- Sized materials obtained will be dispatched directly to the consuming industries after resorting to breaking & sizing in a crushing plant and blending if necessary.

9. Other Waste Generation, if any:

The mineral rejects to be generated during the plan period is 2,81,025 m³, which will be stacked at designated location in 3.376 ha. area for Fe and Mn ore. A total of sub-grade for both Iron & Manganese Ore is 20,02,420m³ and 8,99,400m³ respectively. This will be dumped earmarked sites as indicated in the conceptual plan. The waste of proposed dumps & existing dump will be re-handled during conceptual period. This waste will be utilized for back-filling of mined out area & dumped at earmarked site

10. Land Use(Forest/Agricultural/Waste):

Forest		Non - Forest	
Forest (specify)	Area (ha)	Type of Land	Area in Hectares
		(i) Government waste land,	57.35
Reserved forest -	77.265	(ii) grazing land,	NIL
Forest land -	800.045	(iii) Private /Agriculture land,	64.04
Total forest area-	877.310	(iv) others(specify)	NIL
		Total Non-forest Area	121.39

FC was obtained for diversion of 702.053 ha land vide MoEF letter no 8-118/96-FC dtd 26.02.1998 for a period co-terminus with earlier Lease period under MMDR Act 1957 and as per MoEF &CC's circular dated 01.04.2015 validity of the earlier FC is extended up to the extended lease period under MMDR amendment Act-2015. Renewal application has been submitted on 19.09.2009 for obtaining forest clearance.

11. Details of past production since inception of mine authenticated by DMG

PRODUCTION FIGURE OF BHADRASAHU IRON & MN. MINES OVER 998.70 HECTS. OF M/S.OMDC. LTD. FOR THE PERIOD FROM 1989-90 TO 2017-2018.

Year	Production in MT	
	Iron ore	Manganese ore
1989-1990	124736.160	22971.000
1990-1991	142468.930	30089.000
1991-1992	117467.940	31829.000
1992-1993	128030.340	46535.537
1993-1994	32340.000	39481.200
1994-1995	66008.000	39812.500
1995-1996	80017.730	60923.523
1996-1997	142414.000	94205.000
1997-1998	72646.910	42019.480
1998-1999	94793.000	34265.000
1999-2000	52110.000	9630.000
2000-01	0.000	35775.000
2001-02	0.000	34948.000
2002-03	533692.000	52550.000
2003-04	639200.000	27234.000
2004-05	627967.000	18985.000
2005-06	480730.000	16102.000
2006-07	744450.000	21304.000
2007-08	1433000.000	62890.000
2008-09	575400.000	19150.000
2009-10	299950.000	13225.000
2010-11	23538.000	0.000
2011-12	0.000	0.000
2012-13	0.000	0.000
2013-14	0.000	0.000
2014-15	0.000	0.000
2015-16	0.000	0.000
2016-17	0.000	0.000
2017-18	0.000	0.000

Memo No. 418 / Mines, Dtd. 04.01.19

Copy to M/S.OMDC. Ltd., Bhadrasahi Iron & Mn. Mines over 998.70 hect. for information and necessary action with reference to their letter No. OMDC/BH/OM/2018-19/815, dtd. 19.09.2018. The above figures are hereby provided to produce before the Environmental Appraisal Committee to obtain Environmental Clearance.

Deputy Director
Joda Circle, Jharkhand

12. Applicability of General Condition & Status of SEIAA:

There is no location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant reserves (existing as well as proposed) within 10 km of the mine lease. Site specific wildlife conservation plan was approved vide Letter No.- Memo no. 7487/1WL (C) SSP-281/2012, Bhubaneswar, Dated – 30 September, 2014

13. Aravalli/Doon Valley/ Western Ghats/Eco-Sensitive area: Not Applicable

14. Project Cost & Employment: [Furnish-Details of Project Cost – Rs. 133.59 Crores;

Employment -Existing-70 & Proposed-495

15. Status of DSR, in case of minor mineral- Not Applicable

Observations and recommendations of committee in the 22nd EAC meeting held on 21-22nd May 2019:

PP along with consultant made the detailed presentation before the EAC. EAC observed that FC was obtained for diversion of 702.053 ha land vide MoEF letter no 8-118/96 FC dtd 26.02.1998 for a period co-terminus with earlier lease period under MMRD Act 1957 and as per MoEF & CC circular dated 01.04.2015 validity of the earlier FC is extended upto the extended lease period under MMDR amendment Act 2015. Renewal application has been submitted on 19.09.2009 for obtaining forest clearance.

PP informed that mining lease over an area of 998.70 ha was expired on 30.09.2010. PP had applied for 4th RML on 10.08.2009 within the stipulated period under the provision of Rule 24 A (1) of MC rules 1960. Mining in said mine was stopped wef 01.10.2010. Govt rejected the RML application dated 10.08.2009 under rule 26(1) of MC rules 1960 vide Govt proceeding order dated 08.01.2015. PP has filed appeal against govt order in the Hon'ble HC of Orissa. Govt have initiated a fresh hearing of the lesse which is under progress and the said mining lease can be treated subsisting.

EAC noted the submission of the PP made regarding the mine lease and deliberated on the matter. Accordingly, EAC **deferred** the proposal for want of following information:

1. Submission of R&R details along with action plan.
2. Certificate from local DFO that mining activity was not carried out in the non-diverted forest land.
3. Land use plan showing forest and non-forest land (Total 998.70 ha) with the already forest land diverted and to be diverted forest land.
4. Status of FC application to be diverted i.e. 175.20 Ha out of total forest land of 877.310 Ha.
5. Copy of FC application submitted for renewal dated 19.09.2009.
6. Submission of undertaking that no other case is pending against the project except the credible action case against violation.
7. Present status of court case pending against PP regarding credible action against violation.
8. Status of mining lease renewal (4th).
9. Submission of details as per Annexure XI given to PP during meeting.

Observations and recommendations of committee in the present EAC meeting held on 21-22 September 2020

The matter was further considered in the 36th (present meeting) EAC meeting held on 21st September, 2020 – 22nd September, 2020. The project proponent submitted the information sought by the EAC and made detailed presentation. The EAC made following observations and recommendations.

- a. Total land in the project is 998.70 Ha (FL: 877.31 % NFL: 121.390. A letter from DFO, Keonjhar vide Letter No-4538/6F-Mining91/2019 dated 27.07.2020 has been obtained stating that No mining activity has been undertaken in the non-diverted forest land.
- b. The renewal of FC application over total forest land involved in the mining lease of 877.310 ha. including non-diverted Forest land, was forwarded to CCF (Nodal), Bhubaneswar by RCCF, Rourkela vide his Letter No 1645/3 F (Misc.)-Dis-K-125/2013, dated 25.06.2013 for necessary approval under Section-2 of FC Act, 1980. ▪ The same is forwarded with the required FRA certificate vide his Letter No-310/3F9Misc.)-Dis-K-125/2015. However, the proposal was returned back to PP on dated 07.12.2019 for re-submission through online along with all required documents with reference to guideline F.No.11-232/2014-FC(Pt.) dated 24.07.2014.OMDC also applied online over total forest land of 877.310 Ha under section 2(iii) of FC Act-1980 on dated 09.01.2017.
- c. The lease period has been extended for the applied term of 20 years w.e.f 01.10.2010 to 30.09.2030 vide letter No.1262/SM, Bhubaneswar dated 06.02.2020 as per Rule-3(2) and 3(3) of Mineral (Mining by Government Company) Rules, 2015 dated.
- d. Mining is closed after 2010 and the case No.2(C) C.C.No.98/2013 is under process against PP in the Hon'ble court of JMFC, Barbil u/s 15 E(P) Act 1986. Therefore, further credible action is not required in the instant case

EAC after detailed deliberation on the information submitted and as presented by the project proponent, **recommended** the proposal for issuing Standard Term of Reference 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. Status of the credible action initiated in the court of JMFC, Barbil u/s 15 E(P) Act 1986 for the violation
- 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 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 and as amended thereof.
- 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. Detailed Mine plan approved by Indian Bureau of Mines to be submitted alongwith EIA/EMP report.
- xii. DGMS permission is to be submitted for blasting at project site, if any.
- xiii. The PP should also address the all the issues raised during public hearing along with commitments made and with fund provision to address issues in tabular form to be submitted along with EIA/EMP report.
- xiv. 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.
- xv. Greenbelt development/Bio-diversity Conservation Plan to mitigate the impacts along the budget estimate towards ecology restoration and maintenance shall be prepared.
- xvi. Detail R &R to be submitted in the EIA/EMP report.

36.3.5 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- Further consideration for Environmental Clearance [Proposal No IA/OR/MIN/142102/2018; F. No. 23-237/2018-IA.III(V)]

Project proponent along with the consultant (MECON Limited) made the detailed presentation before the EAC on the project. Details provided by the project proponent is as under:

- 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 :**Odisha Mining Corporation Limited, OMC House, Post Box No. 34, Dist. Khurda, Odisha – 751001, email: envcl.omc@gmail.com. **Registered Address:**OMC House, Post Box No. 34, Bhubaneswar – 751001, Odisha.

- 3. If a Joint venture, the names & addresses of the JV partners including their share:-**
Not Applicable
Latitude and Longitude of the project
Latitude : 21⁰44'08'' N to 21⁰45'32'' N
Longitude : 85⁰08'55'' E to 85⁰10'57'' 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) Enhancement of iron ore production from 2.4 MTPA to 6 MTPA at Kurmitar Iron & Manganese Ore Project (M.L. Area: 651.0 ha).
- (i) Expansion % - 160%

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

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

If the project was considered in EAC, Pl. give dates of the meeting (s).

13th Meeting dated 18.09.2018-19.09.2018 – Consideration of ToR
35th Meeting dated 06.08.2020-07.08.2020 – Consideration of EC

11. Type of Mine:

(Opencast/Underground/mixed): Open Cast

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

ML Area

- (i) As per block allotment: 651.0 ha (561.47 ha area surrendered from initially allotted 1212.47 ha ML)
- (ii) As per approved mine plan: **651.0 ha (Retained ML Area)**

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

Review of Mining Plan of Kurmitar Iron Ore mine along with Progressive Mine Closure Plan (PMCP), over an area of 651.0 ha has been approved by IBM, Bhubaneswar vide letter no. RMP/A/39-ORI/BHU/2019-20/2095 dated 14.01.2020.

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 m³/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 m³/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:-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.

15. Any river/Nallah flowing near or adjacent to the proposed mine. If yes, please give details.

3 Nalas:
 KhandadharNala (~0.3 km)
 PaikunchaNala (~0.5 km)
 MardaNala (~1.8 km)
 2 Rivers:
 KorapaniNadi (~3 km)
TotundaNadi (~4 km)

16. Details of mine lease:-

<p>1. Date of entering into Original lease deed: * 29.04.1965. 2. Date of expiry of Original lease deed: <u>28.04.1985</u> <u>*The Mining Lease for 1212.47 ha</u></p>	<p>2. Date of 1st lease renewal: - 06.07.1984 [Date of application for renewal for 1212.47 ha]. - 26.04.1994 [Date of application for renewal of the lease as second instalment of the 1st renewal for the period of further 10 years from 29.04.1995 to 24.04.2005. 2. Whether renewal or Deemed renewal: Deemed renewal.</p>	<p>3. Date of 2nd lease renewal: - 23.04.2004 [Date of application for renewal for 651.0 ha]. - <u>2nd Renewal Mine lease granted. Lease valid for 30 years (i.e. Valid till 28.04.2035).</u></p>
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	3. Date of expiry of 1 st lease renewal / deemed renewal: 28.04.2005.	
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TECHNICAL DETAILS

Sl. No.	Item	Details
1.	<u>Geological Reserve:</u>	
	(i) Total geological reserve	188.20 Million Tonnes (as on 01.10.2014)
	(ii) Mineable reserve	145.35 Million tonnes(as on 01.10.2014)
	(iii) Extractable reserve	145.35 Million tonnes(as on 01.10.2014)
	(iv) Per cent (%) of extraction	77.23 %
	(v) Range of ground water level	Below 735 m AMSL
	(vi) Total estimated water requirement:	Industrial water requirement: 350 m ³ /d (0.1430570 cusecs). Domestic/Drinking water requirement: 25 m ³ /day. A total of 81 m ³ /day water will be recycled & utilized for green-belt development, drilling & spraying and dust suppression, treated using existing facilities before being distributed.
	(vii) Details of intersecting ground water level	The mine working will not intersect ground water table.
2.	<u>Details of Deposits :</u>	
	(i) Depth of ore body	93.70 m (max.)
	(ii) Grade of ore	Average : 62.53%
	(iii) Stripping ratio	8.59 (on tonne to m ³ 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
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 Eastern Regional office Bhubaneshwar vide letter no. 101-460/EPE dated 16.04.2020 and 101-460/EPE/157 dated 23.10.2019.
7.	<u>Details of O.B.</u>	
	(i) External OB dumps	Yes

Sl. No.	Item	Details
	(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 runoff. 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 ofha 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
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.

Sl. No.	Item	Details				
	(ii) Post-Mining	LAND USE	PLANT ATION	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	74.73	-	-	74.73
		Mineral storage/subgrade dump				
		Total	651.0	-	-	651.0
	(iii) Core area	Particulars	Existing Land use (As on 30.09.2014) (ha)	At the end of Scheme period (ha)	Conceptual Stage (ha)	
		Mining	52.328	84.027	496.948	
		OB/Waste dumping	15.780	27.92	61.300	
		Subgrade Dumping	9.860	23.074	41.670	
		Mineral Storage	0.000	12.80	33.060	
		Feeding area & Long Distance Conveyor for	0.335	12.346	8.630	

Sl. No.	Item	Details			
		new projects			
		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.	Area (in ha)	Stage-II FC issued vide letter no. & date	Validity period	
		133.112	Stage-II FC vide letter no. 8-113/2000-FC(Vol-I) dated 10.04.2007.	20 years	
		517.888	Stage-II FC vide letter no. 8-113/2000-FC(Vol-II) dated 29.11.2018	20 years	
		651.0	Total (Entire Mine Lease)		
	(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.			

Sl. No.	Item	Details
		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>	
	(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

Sl. No.	Item	Details	
		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).	Type of land	Afforestation (Area-ha)
		Excavation	496.948
		Subgrade Dump	41.67
		Mineral storage	33.06
		Feeding area & LDBC	8.63
		Statutory safety barrier (7.5 m)	9.392
	(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

Sl.No.	Item	Details																																																															
	(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.	<p>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></p> <table border="1"> <thead> <tr> <th>FY</th> <th>EC (t)</th> <th>DMG Certified Production (t)</th> </tr> </thead> <tbody> <tr><td>1993-94</td><td>-</td><td>38000</td></tr> <tr><td>1994-95</td><td>-</td><td>66800</td></tr> <tr><td>1995-96</td><td>-</td><td>63500</td></tr> <tr><td>1996-97</td><td>-</td><td>47300</td></tr> <tr><td>1997-98</td><td>-</td><td>27700</td></tr> <tr><td>1998-99</td><td>-</td><td>0</td></tr> <tr><td>1999-00</td><td>-</td><td>0</td></tr> <tr><td>2000-01</td><td>-</td><td>0</td></tr> <tr><td>2001-02</td><td>-</td><td>0</td></tr> <tr><td>2002-03</td><td>-</td><td>0</td></tr> <tr><td>2003-04</td><td>-</td><td>17100</td></tr> <tr><td>2004-05</td><td>-</td><td>247105.27</td></tr> <tr><td>2005-06</td><td>-</td><td>702503.945</td></tr> <tr><td>2006-07</td><td>-</td><td>1459255.47</td></tr> <tr><td>2007-08</td><td>-</td><td>2000612.25</td></tr> <tr><td>2008-09</td><td>2400000</td><td>2399911.08</td></tr> <tr><td>2009-10</td><td>2400000</td><td>2398180.8</td></tr> <tr><td>2010-11</td><td>2400000</td><td>1333221.18</td></tr> <tr><td>2011-12</td><td>2400000</td><td>1611612</td></tr> <tr><td>2012-13</td><td>2400000</td><td>1541000</td></tr> </tbody> </table>		FY	EC (t)	DMG Certified Production (t)	1993-94	-	38000	1994-95	-	66800	1995-96	-	63500	1996-97	-	47300	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	2005-06	-	702503.945	2006-07	-	1459255.47	2007-08	-	2000612.25	2008-09	2400000	2399911.08	2009-10	2400000	2398180.8	2010-11	2400000	1333221.18	2011-12	2400000	1611612	2012-13	2400000	1541000
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Sl.No.	Item	Details		
		2013-14	2400000	1275164.11
		2014-15	2400000	686316.86
		2015-16	2400000	2399999.51
		<u>2016-17</u>	<u>2400000</u>	<u>2399999.84</u>
		<u>2017-18</u>	<u>2400000</u>	<u>2399999.89</u>
		2018-19	2400000	2399999.88

IV. PUBLIC HEARING ISSUES

Sl.No.	Item	Details
21.	Date and Place of public hearing:	Date : 19.11.2019 Venue: Upper Ranta Play Ground, Bhutuda Gram Panchayat, Lahunipada
22.	The designation of officer presided over the PH.	Additional District Magistrate, Rourkela
23.	Number of representation record in writing from the district and outside of district, please give details.	152

V. CONSULTANT

Sl. No.	Item	Details
24.	Name of the EIA consultant who prepared the EIA/EMP report.	MECON Limited (A Govt. of India Enterprise), Ranchi – 834002 has been appointed as Accredited Consultant Organisation for carrying out EIA/EMP studies.
25.	Whether the consultant has been accredited by the QCI and NABET as per the MoEF OM dated 2 nd December, 2009.	Yes;
26.	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 Budhraj, Shri KumudRanjan.

Observation and recommendation of the EAC in the earlier meeting (35th):

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 10.04.2007 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 (LDDB) 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.

Observation and recommendation of the EAC in the present meeting (36th):

Project Proponent submitted the above information to the Ministry on 09.09.2020, accordingly proposal was considered in the 36th (present) meeting. PP alongwith the consultant made the detailed presentation on additional information sought by the EAC in the 35th meeting held on 06-07th August, 2020 including revised damage cost and Remediation plan considering ground water and surface water cost as per the CPCB guidelines.

EAC after detailed presentation observed that PP has submitted the damage cost of Rs 23.60 crores and prepared the Remediation plan (RP), Natural Resource Augmentation plan (NRAP) and Community Resource Augmentation plan (CRAP) accordingly.

EAC further noted that on non-compliances of EC conditions, further OMC took necessary corrective & submitted the Action Taken Report (ATR) vide letter dated 10.12.2019. Compliance Letter issued by RO, MoEFCC vide no. 101-460/EPE dated 16.04.2020 & concluded that “The PAs have complied or in process of complying the conditions stipulated by the Ministry, accordingly the Action Taken Report may be considered for further necessary action. EAC further observed that 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.

EAC deliberated on the information presented and as submitted by the PP including revised damage assessment, approved mining plan and traffic study. EAC advised PP to revise/restructuring the details given in R.P, NRA and CRA as suggested and to be presented before the committee on 22.09.2020.

PP presented the revised R.P, NRAP and CRAP before the EAC in the meeting held on 22.09.2020. The EAC after detailed deliberation on the information submitted by the PP (EIA/EMP report, PH issues, Compliance report, 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 2360.06** Lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision are mention below:
- ii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. **2360.06** lakhs. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. **2360.06** 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. **560 lakhs/-** to be implemented as per the details submitted to the Ministry and to be spent in three years.

Remediation plan with budgetary provision

	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
Air & Noise Environment	Additional Health Camps to monitor the pulmonary diseases, malaria, Hypertension and O & G related health status of nearby villages (2 camps per month at 4 villages= 24 camps/ Year @ Rs.50, 000/Camp) at Villages Sareikela, Tilkuda, Rantha and Uskuda.	12	12	12	36
	Free distribution of medicine to the nearby villagers (Uskuda, Tilkuda, Sareikela, Rantha, Siligora) @ Rs. 50,000/Month i.e. Rs. 6, 00,000 /Year.	6	6	6	18
	Road Sweeping Machine for the mineral carrying main road to reduce dust pollution (@ 75 lakhs/year).	75	75	75	225
	Installation of CAAQMS – In downwind of per-dominant wind direction.	130	0	0	130
Total Air Environment		223	93	93	409
Water Environment	Construction of series of check dams on adjoining nallas (seasonal streams) to ensure clarified water for downstream users @30 lakhs/year within radius of 5 Km.	30	30	30	90
	Construction garland drain, retaining wall, settling pits @ 30 lakhs/year	30	30	30	90
Total Water Environment		60	60	60	180
Biological Environment (Flora & Fauna)	• Plantation of locally growing variety of trees and other Non-Timber Forest Produce (NTFP) in consultation with District administration & local panchayats in periphery of Kurmitar Mines and in nearby villages such as Rantha, Siligora, Bhutuda, Sashyakala and Damalu etc. along community buildings & barren lands.	255	0	0	255
	• Maintenance of plantation for 2 nd year and 3 rd year @ 5 lakh per year.	0	5.53	5.53	11.06
	Plantation through the State Forest Department.	45	0	0	45
	Free distribution of 80,000 saplings of locally growing fruit trees procured from State Forest Department @ Rs.15 per sapling (Rate charged by State Forest Dept.)	36	0	0	36
	Total Biological Environment	336	5.53	5.53	347.06

Total Fund for Damage Remediation Measures	619	158.53	158.53	936.06
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Natural resource Augmentation plan with budgetary provision

	Activity Proposed	Yr. 1	Yr 2	Yr 3	Total
		Lakh	Lakh	Lakh	Lakh
1.	Drinking Water Facility (Construction of bore wells with pressure filters and water towers with solar power) in villages Uskuda, Tilkuda, Sareikela, Rantha, Siligora, Bhutuda, Sashyakala, Damalu, Randa and Basuan etc.	15	20	20	55
2.	Rainwater Harvesting in township, de-silting/ dredging of ponds, wells etc. in nearby villages Sareikela, Tilkuda and Rantha. Digging of 2 numbers of ponds with bathing Ghat in Uskuda village.	5	15	15	35
3.	Plantation of ~10000 trees in Forest Blanks outside ML Area at cost of ₹ 500 per tree in consultation with concerned local Government officials. (Plantation near Singtola village)	50	0	0	50
Total Fund for Natural Resource Augmentation Plan		70	35	35	140

Community resource Augmentation plan with budgetary provision

	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
1	Skill Development & Livelihood Generation				
	a. Support for establishment and operation of a Sports Academy (Archery, shooting, swimming, athletics, cycling, boxing & Hockey).	5	5	5	15
	b. Support for skill development & livelihood generation for peripheral villages and corpus for sustainability of educational initiatives in villages Uskuda, Tilkuda, Sareikela, Rantha, Siligora, Bhutuda, Lasi, Sashyakala, Damalu, Randa and Basuan.	5	5	5	15
	c. 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.	4	4	4	12
	Sub Total	14	14	14	42
2	Construction / repairing of school building & amenities				

	Activity Proposed	Yr. 1	Yr. 2	Yr. 3	Total
		Lakh	Lakh	Lakh	Lakh
	a. Construction of additional building at Uskuda primary school. b. Repair & renovation of Rantha primary school. c. Construction of Building at Rajabasa Ashram school d. Construction of Bathing Complex for Girl students at Phuljhar SSD High school e. Completion of Staff Quarters at Rajabasa Ashram school f. Construction of Toilet & Hand Wash Facility at Rantha Anganwadi Center g. Construction of School Building at Kuliposh High School h. Construction of building at Barsuan Mission School	20	20	25	65
3	Infrastructure Development				
	a. Providing Infrastructure / Medical Equipments at Health Centre	14	15	15	44
	b. Providing Infrastructure for Community development Centre • Construction of multipurpose resource centre one in each Sareikela, Tilkuda, Rantha and Uskuda, Budhabhuin, Nuagaon etc. • Construction of Anganwadi Centre (AWC) Building in Sareikela village.	10	20	20	50
	c. Construction of Toilets at Sareikela, Tilkuda, Uskela & Rantha etc. under ODF Programme	11	11	11	33
	Sub-total	35	46	46	127
4	Construction of Roads & Pucca Houses				
	a. Construction of roads & conversion of unpaved roads to paved roads in villages • Construction of CC Road at Hatigoda to Chadasahi • Construction of CC Road at Village Rantha • Construction of CC Road from Chadha Sahi to Bhuyan Sahi • Construction road from Sareikela to Tilkuda	150	150	150	450
	b. Construction of Pucca Houses for villagers of Sareikela, Tilkuda, Rantha & Uskela etc.	300	200	100	600
	Sub-total	450	350	250	1050
Total Fund for Community Resource Augmentation Plan		519	430	335	1284

Summary

Sl. No.	Activity Proposed	Total (in Rs. lakh)
1.	Cost of Damage Remediation Plan	936.06
2.	Natural Resources Augmentation Plan	140.00
3.	Community Resources Augmentation Plan	1284.00
Total Fund		2360.06

- 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. Wild life Conservation plan as approved by the Competent Authority shall be implemented.
- vii. 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.
- viii. 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.
- 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.

36.4.1. Expansion of Sugar Factory from 5,000 TCD to 10,000 TCD by M/s Deshbhakt Ratnappa Kumbhar Panchganga Sahakari Sakhar Karkhana Ltd. (D.B.R.K. Panchganga S.S.K. Ltd.) leased unit of M/s Shree Renuka Sugars Ltd. (SRSL) 22 located at Ganganagar, Ichalkaranji, Taluka Hatkanangale, District Kolhapur, Maharashtra- regarding fresh Environmental Clearance.

[Proposal No. IA/MH/IND2/153135/2000] [F. No. IA-J-11011/116/2017- IA-II(I)]

The Project Proponent and the Accredited Consultant M/s.Equinox Environments (I) Pvt. Ltd. made a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for Environmental Clearance (EC) to the Expansion of Sugar factory from 5000 to 10,000 TCD by M/s. Deshbhakt Ratnappa Kumbhar Panchganga Sahakari Sakhar Karkhana Ltd., (DBRKPSSKL) leased unit to Shree Renuka Sugars Ltd., at Gat No. 29, Ganganagar, Ichalkaranji, Tal.: Hatkanangale, Dist.: Kolhapur, Maharashtra.
- ii. Standard ToRs has been issued by Ministry vide letter F. No. IA-J-11011/116/2017/-IA II (I)dated 12.02.2020.
- iii. All Sugar factories are listed at S.N. 5 (j) of Schedule of Environmental Impact Assessment (EIA) Notification. Accordingly, the said project comes under Category B and requires

appraisal at State Level. But due to applicability of General Condition i.e. industrial site located at 4.8 Km from Maharashtra - Karnataka Inter State Boundary, project appraised at Central level.

- iv. Ministry has issued EC earlier: since approval for existing 5000 TCD sugar factory was obtained in year 1978. CTO for 5000 TCD dated 08.11.2000 which was issued prior to the EIA notification No. S. O. 1533 (E) dated 14.09.2006. This means 5000 TCD industry does not attract any requirement of EC under EIA notification of 2006.
- v. Total plot area is 59.4 Ha. Out of this total built up area is 20.57 Ha.
- vi. Under existing setup of DBRKPSSKL an area of 1,36,600 Sq.M. is under green belt which is 23% of total plot area. Thereunder, about 1711 no. of big trees have been planted. Further, an area of 59,635 Sq.M. will be developed under additional green belt development plan & about 27,724 no. of trees shall be planted in phasewise manner.
- vii. The estimated project cost is Rs. 290.0 Cr. including existing investment of Rs. 210 Cr. Total capital cost earmarked towards environmental pollution control measures is Rs. 4.9 Crores and the Recurring cost (operation and maintenance) will be about Rs. 0.83 Crores per annum.
- viii. Total employment will be 119 persons as direct and 521 persons indirect after expansion. Industry proposes to allocate Rs. 1.075 Cr. towards Corporate Environmental Responsibility (CER) as per Ministry OM dated 1st May, 2018.
- ix. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River Panchganga flows at 4.8 Km from project site.
- x. Ambient air quality concentration ranges are- PM_{10} 52.8 to 66.3 $\mu\text{g}/\text{M}^3$, $PM_{2.5}$ 18.3 to 24.8 $\mu\text{g}/\text{M}^3$, SO_2 30.2 to 41.6 $\mu\text{g}/\text{M}^3$ and NO_x 38.4 to 55.6 $\mu\text{g}/\text{M}^3$ respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the expansion will be 0.219 $\mu\text{g}/\text{m}^3$ PM_{10} (on W side), 0.0525 $\mu\text{g}/\text{m}^3$ $PM_{2.5}$ (on W side), 1.14 SO_2 $\mu\text{g}/\text{m}^3$ (on W side) and 0.696 NO_x $\mu\text{g}/\text{m}^3$ (on W side). The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- xi. The total water requirement after expansion of sugar factory will be 3362 CMD. From this, 50 CMD fresh water will be used for domestic use. About 2280 CMD will be used for industrial use and 1032 CMD for Green Belt purpose; met from cane condensate (100% recycle). Fresh water will be taken from river Panchganga.
- xii. Total domestic effluent generated @ 45 CMD, will be treated in proposed Sewage Treatment Plant (STP) and the treated effluent shall be reused for flushing in toilets & gardening.
- xiii. Total trade effluent generated after expansion will be 890 CMD; same to be treated in existing ETP having primary & secondary treatment units. Treated water from ETP along with excess cane condensate will be used for green belt development in own sugar factory complex (19.62 Ha)

- xiv. Existing set up now comprises of primary treatment for oil & grease removal through traps & flotation tanks. Thereafter, comprehensive secondary anaerobic treatment (suspended growth type) is given in one RCC tank (4680 Cu. M.) followed by aerobic treatment (suspended growth type) in diffused air aeration tank (2112 Cu.M.). Thereafter, the secondary clarifier unit removes biological flocs & sludge which go to SDBs and overflow from the weir goes to a treated water storage tank (1200 Cu.M.). From here the treated effluent is supplied for irrigation. A state of art OCMS (online continuous monitoring system) is fitted to the ETP infrastructure.
- xv. Under expansion project; there is planning of provision of – (1) advanced secondary treatment through an additional MBBR based diffused air aeration tank (1750 Cu.M.), and (2) tertiary treatment through PSF and ACF. Always, the ETP is commissioned one month before crushing season for development of culture adequately & appropriately.
- xvi. Total 11.3 MW Power will be required, will met through inhouse 30 MW cogeneration plant.
- xvii. No additional boiler will be installed under expansion unit, since, steam required for additional activities will be taken from existing boiler of 140 TPH.Bagasse @ 63.6MT/Hr is used as fuel. ESP (3 Field) is provided as APC & stack of 75 M height.
- xviii. Details of Process emissions generation and its management - No process emission are generated.
- xix. Details of Solid waste/ Hazardous waste generation and its management.

Details of Solid waste generated & its management

Unit	Type	Existing	After Expansion	Disposal
Sugar Factory & Co-gen Plant	Boiler Ash (Bagasse)	18.0 MT/D	21.6 MT/D	Used as manure / sale to bricks manufacturers
	ETP sludge	2.5 MT/Yr.	3.5 MT/Yr.	Used as manure

Details of Hazardous waste generated & its management

Unit	Type	Existing	After Expansion	Disposal
Sugar Factory & Co-gen Plant	5.1- Spent Oil	2.5 MT/Yr.	5 MT/Yr.	Burnt in boiler alongwith bagasse
	5.2- Residue Oil	2.5 MT/Yr.	5 MT/Yr.	To CHWTSDF

- xx. As per ToR letter dated 12.02.2020 repeat Public Hearing (PH) for the project was not required since earlier conducted on 04.09.2018.

Major issues raised in PH are-

1. Generation of high noise from boiler- is generated during release of steam from safety valves of warm up vent steam line for turbine, boiler start-up valves, superheater safety valve, steam blowoff safety valve & during grid failure which is not a continuous source of noise. Subsequent to public hearing, the steam released from these safety valves is now being passed through steam silencer installed in turbine & boiler sections. Due to installation of steam silencers there

is reduction of noise up to 65-70 dB(A). Rs. 22 Lakh have been spent towards installation of steam silencers in December 2018.

2. Air pollution & fugitive dust emissions - A commitment was given by the management of DBRKPSSKL during public hearing regarding installation of Third Field to ESP for further reducing stack emissions due to improvement in efficiency of pollution control equipment. Accordingly, the ESP is fitted with third field in the year 2018; which has resulted in to further reduction of air pollutants from 90 mg/Nm³ to 35 mg/Nm³. About Rs. 1.5 Crore spent on installation of Third Field to ESP.

Management further have decided to shift bagasse yard & conveyor to the area available with the industry; from where residential area is significantly away. Layout plan showing proposed bagasse yard & its conveyor area which is approved by factory inspector is enclosed at Appendix-N of EIA report. Further, google image showing existing & proposed location of bagasse conveyor is also appended therewith. Expenses of Rs. 2.0 Cr shall be incurred towards bagasse yard & conveyor shifting work.

3. Traffic due to vehicle transportation- Major concern was raised by locals regarding traffic management on internal road passing adjacent to industry from south direction. Earlier single road was used for movement of all vehicles i.e. single route for in & out.

Presently, cane transportation through the road passing from colony/ residential area was stopped & alternate route is in operation. This will reduce problems due to transportation. A detailed plan of Traffic Management & google images showing earlier transportation routes & alternate routes are enclosed at Appendix- D of EIA report. .

xxi. Approval for existing 5000 TCD sugar factory was obtained in year 1978. CTO for 5000 TCD dated 08.11.2000 (at Appendix-B of EIA report) which was issued prior to the EIA notification No. S. O. 1533 (E) dated 14.09.2006. This means 5000 TCD industry does not attract any requirement of EC under EIA notification of 2006. A 30 MW Cogen unit granted EC from SEIAA, DoE, Maharashtra vide no. SEAC 2009/CR16/TC2 dated 18.11.2009. Action taken report from the Regional Office, MoEF&CC on to the non/partially compliance of EC conditions is enclosed at Appendix – S of EIA report.

xxii. Status of Litigation pending against the proposal, if any : MPCB have initiated court case against Sugar Factory for excess cane crushing (from 5000 TCD to 5500 TCD) done in year 2015-2016 on 13.12.2016 vide Application No.132/2016; pending at the court.

xxiii. Following are the list of proposed products:

Details of Products

Industrial unit	Product	UoM	Quantity	
			Existing	Total after Expansion
Sugar Factory	Sugar (12-13%)*	MT/D	650	1300
	Molasses (4-5%)*	MT/D	225	450
	Bagasse (30%)*	MT/D	1500	3000
	Press Mud (4-5%)*	MT/D	200	400
Co-Gen	Electricity	MW	30	30
Distillery	Rectified Spirit	KL/D	45	45
	Fusel Oil	KL/D	0.025	0.025

xxiv. If any Court case pending for violation of the environmental laws (supported by an undertaking)

MPCB have initiated court case against Sugar Factory for excess cane crushing (from 5000 TCD to 5500 TCD) done in year 2015-2016 on 13.12.2016 vide Application No.132/2016. Subsequently, renewal consent application (5000 TCD) was considered by MPCB in CAC meeting on 16.12.2016 & directed to submit BG for Rs. 25 Lakhs & Board Resolution for not carrying out excess crushing without procurement of EC. Thereafter, BG & Board Resolution was submitted and renewed consent was procured dated 19.05.2017. After submission of BG, immediate steps were taken by industry for procurement of EC and submitted Form-1 to MoEFCC on 02.03.2017. Industry have stopped excess crushing since 2017 till date as well as legal action is also initiated by MPCB. Moreover, industry has submitted BG for Rs. 25 Lakhs and the Board Resolution for not repeating the violation to MPCB.

xxv. Land use planning: Land is owned by industry. Total plot area is **59.4 Ha**. Out of this total built up area is **20.57 Ha**.

xxvi. Ground water withdrawal approval from CGWA Not applicable since fresh water will be taken from river Panchganga. Permission is taken from ID, Kolhapur.

xxvii. For other sources, firm commitment of the water supply agency :- Not applicable since fresh water will be taken from river Panchganga. Permission is taken from ID, Kolhapur.

xxviii. Undertaking to the effect that no activity has since been taken up: As per directions given by MPCB in CAC meeting on 16.12.2016, the BG for Rs. 25 Lakhs & Board Resolution for not carrying out excess crushing without procurement of EC was submitted by industry & renewed consent was procured dated 19.05.2017.

xxix. Appraisal by State Coastal Zone Management Authority (SCZMA)
Not Applicable

xxx. Details of earlier EC, if any and compliance thereof:

Approval for existing 5000 TCD sugar factory was obtained in year 1978. CTO for 5000 TCD dated 08.11.2000 which was issued prior to the EIA notification No. S. O. 1533 (E) dated 14.09.2006. This means 5000 TCD industry does not attract any requirement of EC under EIA notification of 2006. A 30 MW Cogen unit granted EC from SEIAA, DoE, Maharashtra vide no. SEAC 2009/CR16/TC2 dated 18.11.2009.

xxxi. Details of earlier appraisal by EAC/ SEAC observation and compliance:

Initially, the Form I application for expansion of sugar factory from 5000 to 10,000 TCD was submitted to EAC (Ind. 2) MoEFCC; New Delhi on 03.01.2018. Accordingly, ToRs were granted on 22.02.2018 & Public Hearing (PH) was conducted on 04.09.2018 with

final EIA submission on 13.11.2018. During the case consideration in 1st EAC meeting on 20.12.2018, the industry informed about excess crushing happened (beyond consented limit of 5000 TCD) during year 2015-16 & 2016-17. On this, after detailed deliberation during the EAC meeting, a decision was given that the case comes under violation as per MoEFCC notification No. S.O. (E) 804 dated 14.03.2017 (as amended on 08.03.2018). Accordingly, the case was transferred by EAC (Ind. 2) to EAC Violation of MoEFCC; New Delhi. In due course, ToRs under violation were issued to the industry on 12.02.2020. In line with the earlier ToRs as well as the ToRs under violation, the EIA report has been prepared & submitted.

Observation and recommendation of the EAC in the present meetings (36th)

After detailed presentation by the consultant, EAC noted that Approval for existing 5000 TCD sugar factory was obtained in year 1978. Enclosed copy of the CTO for 5000 TCD dated 08.11.2000 which was issued prior to the EIA notification No. S. O. 1533 (E) dated 14.09.2006. This means 5000 TCD industry does not attract any requirement of EC under EIA notification of 2006. A 30 MW Cogen unit granted EC from SEIAA, DoE, Maharashtra vide no. SEAC 2009/CR16/TC2 dated 18.11.2009.

Application for expansion of sugar factory from 5000 to 10,000 TCD was submitted to EAC (Ind. 2) MoEFCC; New Delhi on 03.01.2018. Accordingly, ToRs were granted on 22.02.2018 & Public Hearing (PH) was conducted on 04.09.2018 with final EIA submission on 13.11.2018. During the case consideration in 1st EAC meeting on 20.12.2018, the industry informed about excess crushing happened (beyond consented limit of 5000 TCD) during year 2015-16 & 2016-17. On this, after detailed deliberation during the EAC meeting, a decision was given that the case comes under violation as per MoEFCC notification No. S.O. (E) 804 dated 14.03.2017. In due course, ToRs under violation were issued to the industry on 12.02.2020 while exempting the repeat PH.

EAC deliberated on the information submitted (EIA/EMP report, PH issues, Compliance report, Form 2, Annexures etc) and as presented. The EAC after detailed deliberation **deferred** the project for want of following information:

1. Details of green belt shall be submitted.
2. Application for approval of wildlife conservation plan shall be submitted to the competent authority and copy of the same shall be submitted.
3. Documents for use of land for industrial purpose and permission for use of water from the river for domestic use.
4. Details of ZLD to be submitted along with water balance.
5. CTE and CTO granted so far for 5000 TCD
6. Year wise production detail since inception of operation.
7. Revised traffic density using impact prediction modeling to be submitted.
8. Status of credible action u/s 19 of E(P) Act.

9. Revised damage assessment cost and rework on the activities proposed under the RP , NRA and CRA as per the requirement of local villages and issues raised during public hearing.
10. Details of colony, water consumption, solid waste disposal and energy conservation and related assessment of damage.
11. Greenbelt Development & Ecology Restoration programme with Budgetary provisions (for the 1st two years) to mitigate the Predicted impacts.

36.4.2. 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 further consideration of Environmental Clearance

[Proposal No. IA/TG/CMIN/152625/2017 dated 07 Jul 2020][F. No. 23- 77/2018-IA (III)]

The Project Proponent and the Accredited Consultant M/s.EPTRI made a detailed presentation on the salient features of the project and informed that:

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 8th meeting of EAC for the violation of EIA Notification, 2006, held on 13th -14th 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 8th 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 14th 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
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 Mtpato 5.00 Mtpa
10. If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006 Not applicable
11. 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.
12. No. and Date of ToR/and revised ToR, if any, letter issued by MoEF (if this is a case for EC): - The ToR letter was issued vide letter No.23-77/2018-IA(III) Dt. 08th August, 2019
13. 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
14. If the project was considered in EAC, Pl give dates of the meeting (s): The proposal was considered in the 8th meeting of EAC held on 13th–14th June, 2018 for grant of ToR ;and considered in the 35th EAC for grant of EC.
15. Type of Mine: (Opencast / Underground / mixed: Opencast Coal Mining Project.
16. Capacity of the mine applied for:5.00 MTPA
17. ML Area: 544.81 ha
18. 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. (may be re-written in the script form)
19. Date of Board's approval: 10th July, 2013. Approved vide minute No. 513:5.20
20. Date of Ground Water Clearance and surface water approval: 06th July, 2007 Letter No.13019/Hg.II(1)/06.
21. 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.

22. 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)
23. Date of mine closure approval: 17.11.2014 MP & MCP Approved by MoC, GoI Vide Lr.No. 13016/2/2006-CA-II. (may be re-written in script form)
24. Any river / Nallaha flowing near or adjacent to the proposed mine. If yes, please give details :- No
- 25. 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

26. 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 m³/day
- vii. Details of intersecting ground water level 26.56 m

27. 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

28. Method of mining: Mechanized opencast method.

29. Life of mine: 1 year from 2019-20

30. 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.

31. 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 11th November, 2019.

32. 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.

33. 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

34. 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.

35. Details of final Mine Voids:

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

36. Details of Quarry

- i. Total Quarry area (ha) 371.02
- ii. Back filled quarry area that shall be reclaimed with plantation: 143.60
- iii. A void ofha 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

37. 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)			
		Plantation	Water body	Public/ Other Use	Total
1	External OB dump	112.37	-	-	112.37
2(a)	Excavation (Backfilled area)	143.60	-	-	143.60
2(b)	Excavation (Void area)	-	164.86	-	164.86
2(c)	Safe zone including Drains	46.39		34.19	80.58
3	Service buildings, CHP & sub-station		-	18.14	18.14
4	Road diversion	-	-	15.26	15.26
5	Colony/township	-	-	10.0	10.0
	TOTAL	302.36	164.86	77.59	544.81

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

38. 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
- 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.

39. 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, Bhadradri 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

40. 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

41. 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.

42. 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

43. 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

44. 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.

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

Sl. No.	Financial Year	As per EC (Mtpa)	Actual Production
1.	2007-08	2.5	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

46. Public Hearing Issues

Date and Place of Public hearing: 14th February, 2020; Place: JVR Government college, Sathupalli, presided over by Additional Collector

Observation and recommendations of the EAC in the 35th meeting

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 neighborhood 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

Observation and recommendations of the EAC in the 36th meeting

Project proponent submitted the additional information as sought by the EAC to the Ministry on 25.08.2020, accordingly proposal was considered in the present EAC meeting. Project proponent along with the consultant made the detailed presentation before the EAC on the additional information. PP apprised EAC on the additional information including following:

- Land requirement details in EIA/EMP report was mentioned as 544.81 ha. Out of this 544.81 ha, 10 ha was proposed for colony. But the colony was not constructed due to land acquisition problem and the proposal is made under JVR OC Mine (I & II Expansion). Hence, EC may be granted for 534.81 ha.
- Impact prediction was carried out through 3D ground water flow modelling using 'Visual Modflow Flex. Maximum influence of mining on ground water regime from the surface edge of the quarry will be up to 1.55 km in the east and minimum up to 0.59 km in the west; while it is 1.24 km on the north and 1.15 km on the south.
- Further, Desiltation of nearby village tanks was carried out and about 60,000 cu.m of silt was removed with an amount of Rs.50.61 lakhs. Accordingly, an additional 60,000 cu.m. of water storage was made available for the local community. Further, it is also proposed to construct 100 no's of rain water harvesting structures in the buffer zone with a cost of Rs.2.75 Crores in a span of 3 years.
- Revised damage assessment cost

EAC deliberated on the information presented and as submitted by the PP including revised damage assessment, land requirement details, impact prediction of drawdown of the ground water on the neighbourhood. PP submitted the revised R.P, NRA and CRA of Rs 2667.00 lakhs to the Ministry and same was discussed by the EAC in the present meeting held on 22.09.2020. The EAC after detailed deliberation on the information submitted by the PP (EIA/EMP report, PH issues, Compliance report, 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 2667.00 lakhs** towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision are mentioned below on next page:

- ii. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 2667.00 lakhs. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 2667.00 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. 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.
- v. Wild life Conservation plan as approved by the Competent Authority shall be implemented.
- 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.

Remediation plan along with budgetary provision

S. No.	Component	Remediation Proposed	Description	Locations	Rate in Rs.	Total Qty.	Total Cost (Rs.)	Year I (Rs.)	Year II (Rs.)	Year III (Rs.)
1a.	Air Environment	Dust suppression	Laying of 10 feet cc road in the nearby village.	NTR Colony	50,00,000 per 1km	1000 m	50,00,000	25,00,000	15,00,000	10,00,000
1b.	Noise Environment and Ecology	Avenue Plantation / Plantation	Plantation of total 4900 No.s native plants at Rs.1000 per sapling, including maintenance for 3 years and 35 ha of block plantation around mine boundary.	1. Satupalli 2. Rejarla 3. Cherukupalli 4. Kothuru 5. Kommugudem 6. Kistaram 7. Mine boundary	1,000 + 1,00,000 per ha	4,900	75,00,000	25,00,000	25,00,000	25,00,000
2a.	Water Environment	Construction and annual maintenance of 100 Nos. Rain Water Harvesting	Construction of RWH-100 No.s and 11 No.s of roof top rain water harvesting facility	1.Sathupalli 2.Kistaram 3.Cherukupalli 4.Rejarla 5.Kommugudem	2,55,000 + 2,00,000	100 + 11	2,77,00,000	95,00,000	95,00,000	87,00,000

		structures in nearby villages	(including raw material, labour, construction and maintenance for one year)							
2b.		Construction of check dams and creation of new water tanks	Lumpsum (LS) cost including Materials, labour, construction and maintenance for one year	1. Kistramcheruvu. 2. Jaganathpuramcheruvu 3. Kothurucheruvu 4. Jeenugupalli (New Tank)	LS	LS	2,00,00,000	70,00,000	70,00,000	60,00,000
2c.		Supply of potable water in surrounding villages.	RO plants of 1000 litres capacity with installation and 3 years maintenance	1. Vengalraonagar 2. Kistaram 3. Kakarpalli 4. Lingapallem 5. Rejarla (2 No.s) 6. Ayyagaripeta 7. NTR Nagar 8. Kothuru 9. Dwaraka Nagar 10. Gourigudem 11. Cherukupalli (R&R center) 12. Virat Nagar	900000	13	1,17,00,000	40,00,000	40,00,000	37,00,000
Total (Rs.)							7,19,00,000	2,55,00,000	2,45,00,000	2,19,00,000

Natural Resource Augmentation plan with budgetary provision

S.No	Component	Activity Proposed	Description	Locations	Rate	Total Qty.	Total Cost (Rs.)	Year I (Rs.)	Year II (Rs.)	Year III (Rs.)
1a.	Natural Resource Augmentation Plan	Energy Conservation by adapting Green Energy technology.	Providing 1 KW Capacity Solar Lighting system (includes panels, inverters, wiring, structure, connectors, junction boxes, etc.)	1.Sathupalli 2.Kistaram 3.Rejarla 4.Ayyagaripeta 5.Kommugudem	50,000	200	1,00,00,000	40,00,000	30,00,000	30,00,000
1b.			Solar water pump sets of 5 HP capacity for agriculture (including panels, inverters, wiring, structure, connectors, junction boxes, etc.	1.Kistaram 2.Rejarla 3.Kothuru 4.Kommugudem	3,00,000	130	3,90,00,000	1,30,00,000	1,30,00,000	1,30,00,000
1c.		Improvement of Public	Providing Bio toilets in	Sathupalli town	1,60,000	10	16,00,000	6,00,000	5,00,000	5,00,000

		Sanitation	Sathupalli town.							
Total (Rs)							5,06,00,000	1,76,00,000	1,65,00,000	1,65,00,000

Community Resource Augmentation plan with budgetary provision

S.no	Component	Activity Proposed	Description	Locations	Rate	Total Qty.	Total Cost (Rs.)	Year I	Year II	Year III
1a.	Community Resource Augmentation Plan	Development of Infrastructure	Construction of CC Roads and drains (2 km in each village) and bore wells.	1.Kistaram 2.Rejarla 3.Kothuru	1,00,00,000	3	3,00,00,000	1,00,00,000	1,00,00,000	1,00,00,000
1b.			Construction of Godown for storage of the agriculture products (Dimensions 20	1. Rejarla 2. Kothuru	50,00,000	2	1,00,00,000	40,00,000	30,00,000	30,00,000

			m x 8 m x 6 m)								
1c.			Repair of road and road widening as requested in the Public Hearing.	V.M.Banjar to sathupalli town (20 km) and widening of y-junction near Kistaram village	LS	LS	5,67,00,000	2,00,00,000	2,00,00,000	1,67,00,000	
1d.			Construction of Community halls / Community health centres (300 Sq. m. each)	1. Kistaram 2. Rejarla 3. Kothuru	75,00,000	3	2,25,00,000	75,00,000	75,00,000	75,00,000	
1e.			Land for dump yard (about 8 acres) used for treatment of solid waste for generation of compost.	Sathupalli	25,00,000	8	2,00,00,000	2,00,00,000	-	-	
1f.			Development of New Urban park	1. Sathupalli town 2. Kothuru	LS	2	50,00,000	20,00,000	20,00,000	10,00,000	
Total (Rs)								14,42,00,000	6,35,00,000	4,25,00,000	3,82,00,000

Summary

Sl. No.	Description	Estimated cost (Rs. in Lakhs)
1	Remediation Plan	719
2	Natural Resources Augmentation Plan	506
3	Community Resources Augmentation Plan	1442
Total		2667

- vii. Fund allocation for Corporate Environment Responsibility (CER) of Rs. 1.05 crore to be implemented as per the details submitted to the Ministry and to be spent in three years.
- 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. 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.
- xii. As mine lease is valid till 22nd March 2025 and balance extractable reserve is only 1.30 Mt therefore validity of Environment Clearance shall be upto 22nd March 2025 and all activities proposed under RP, CRA and NRA shall be completed within three years of the grant of EC.

36.4.3. Chettichavadi Jaghir Magnesite and Dunite Mines over an extent of 449.364 Ha located at Village Chettichavadi, Taluk Salem, District Salem, Tamil Nadu by M/s Dalmia Bharat Sugar and Industries Limited - Further consideration for Terms of Reference

[Proposal No. IA/TN/MIN/73566/2018 dated 19.03.2018] [F. No.23- 227/2018-IA.III (V)]

1. The Chettichavadi Jaghir Mines is a semi-mechanized mining and is being operated by M/S. Dalmia Bharat Sugar and Industries Limited C/o Dalmia Magnesite Corporation at Karuppurpost. Salem-636012 for more than 45years. The Chettichavadi Jaghir Magnesite and Dunite Mines is located in S.F No: 6, over an extent of 449.364 Ha. in Chettichavadi Village, Salem, and Taluk and District, Tamil Nadu. The Chettichavadi Jaghir Mines is a captive mine and entire magnesite/Dunite produced from the mines is used for self-consumption in their plant.
2. The initial Mining Lease was granted vide G.O Ms. No: 903 dated 25.02.1966, over an extent of 574.46 Ha for a period of 20years. The lease deed was executed on 20.08.1966 and the lease expired on 19.08.1986.
3. The first renewal of mining lease was granted over an extent of 531.98 Ha (to make them on terminus), vide G.Os.No: 74 dated 11.03.1997 for a period of 20years (20.08.1986 to 19.08.2006).
4. Since the mining lease expired on 19.08.2006. the application for second mining lease renewal was made vide Letter No: SL:G.O: 55200 (1) dated 11.07.2005 over an extent of 449.364 Ha. The surrendered lease area covers an area of 82.616 Ha which is

classified as unassessed dry waste land and handed over to the state govt. Now, the company operates the mine by virtue of order of interim injunction passed in MP No. 1 of 2006 in W.P.Nos. 25518 and 25519 of 2006 in the Honourable High court of

Observations and recommendations of committee of 12th EAC meeting held on 28th-29th August, 2018:

The EAC in its 12th meeting, after detailed presentation by PP observed that mining started by the PP in the year 1966. First renewal of mining lease was granted over an extent of 531.98 Ha (to make them co-terminus), vide G.OMs.No: 74 dated 11.03.1997 for a period of 20years (20.08.1986 to 19.08.2006). Thereafter, application for second mining lease renewal was made vide Letter No: SL:G.O: 55200 (1) dated 11.07.2005 over an extent of 449.364 Ha. Now the company operates the mine by virtue of Order of injunction passed in MP No.1 of 2006 in W.P.Nos. 25518 and 25519 of 2006 of the Hon'ble High Court of Madras. Mining activity stopped on 11.01.2017.

EAC also observed that in Annexure II submitted to MoEF&CC, PP mentioned that general condition does not applies to the project whereas in Form 1 it is mentioned that general condition applies to the project.

EAC after detailed deliberation recommended to *defer* the proposal for want of following documents to be submitted:

- (i) The Project Proponent shall give an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. before grant of ToR/ EC. The undertaking interalia include commitment of the PP not to repeat any such violation in future. In case of violation of above undertaking, the ToR/Environmental Clearance shall be liable to be terminated forthwith.
- (ii) Details of past production of mine since its inception duly authenticated by Department of Mines & Geology, State Government.
- (iii) Letter of Intent for mining lease to be submitted from State department of Mines and Geology.
- (iv) As per Form 1, details about the general condition is to be submitted.

Observations and recommendations of committee of 28th EAC meeting held during 25th-26th November, 2019:

Project proponent along with the consultant made the detailed presentation on the information sought in the 12th meeting. EAC after detailed deliberation **deferred** the proposal for want of following information:

- (i) Revised affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. before grant of ToR/ EC. The undertaking interalia include commitment of the PP not to repeat any such violation in

future. In case of violation of above undertaking, the ToR/Environmental Clearance shall be liable to be terminated forthwith.

(ii) Details of mine closure notice submitted to the DGMS.

(iii) Total excavation details to be submitted in the revised Form 1.

(iv) Detail of court case to be submitted in the revised form 1 and to be presented before the committee.

(v) Second renewal is not deemed therefore letter of intent for the second renewal of mining lease is to be submitted.

(vi) Justification for continuing mining.

Observations and recommendations of committee of present EAC meeting (36th)

EAC observed that PP under gone mining without prior Environmental Clearance. Project Proponent gone for enhanced production beyond the base line production of the year 1993-94 without obtaining prior environment clearance, hence violated the provisions of EIA Notification. Project Proponent submitted the application under the Ministry's Notification dated 14.03.2017 for consideration of proposal under violation. Proposal was last considered in the 28th meeting held during 25th -26th November, 2019. EAC deferred the project and sought some additional information including letter of intent for renewal of mine lease in favour of the Project Proponent as the second renewal is not deemed.

Project Proponent vide letter dated 27.08.2020 submitted the request to the Ministry through Parivesh Portal for consideration of the ToR proposal. Accordingly, proposal was listed in the Agenda of present meeting (36th), however PP did not attend the meeting.

EAC observed that proposal was considered in the 28th meeting held during November 2019 and was deferred for want of information required for appraisal of mining project. PP on 27th August 2020, after almost ten months submitted the information to the Ministry, which is an inordinate delay at the PP end and unacceptable. Further, on perusal of the information submitted by the PP on the compliance of 28th EAC meeting, it is observed that PP has not yet complied as far as LoI, total excavation details are concerned. EAC took it seriously and advised PP to submit the required information before the next EAC meeting for consideration of ToR.

EAC deferred the project for grant of ToR. Since it is a violation case, recommended the following:

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 project to be issued till the project is granted EC.

36.4.4. Proposed mineral beneficiation (Manganese Ore) of capacity 12,000 TPA of M/s Paonarkhari Minerals and Chemicals (PMC) Pvt. Ltd., located at Village Paonakhari, District Bhandar, Maharashtra - Further consideration for Terms of Reference

[F. No. J-11015/269/2012-IA.II(M)]

M/s Paonarkhari Minerals and Chemicals Pvt Ltd (PMC) was established in 1995 for processing of Manganese ore and is registered as a small scale unit industry with the District Industries centre, Bhadra. The unit is involved in purchasing raw material (i.e Manganese ore of required grade) from Manganese Ore India Pvt Ltd (MOIL) and Product is supplied to manufacturers of Manganese sulphate. PMSC has proposed to expand its existing unit from capacity 3500 MTPA of output (combined capacity of MnO, MnO₂ and ground minerals) to 12000 MTPA of combined capacity at Paonarkhari, Distt. Bhandara, Maharashtra.

1. Project title, location (plot No./ Village/ Tehsil/ District):M/s. Paonarkhari Minerals and Chemicals Pvt. Ltd., Gut No. 330, Village Paonarkhari, Tumsar, District Bhandara. Maharashtra

2. Salient features of the project

- **Land use pattern/ Total plot area/ built up area** 17600 m²
- **Total water requirement and its source** 20m²/day after expansion
- **Waste water generation, treatment and disposal**
- **Municipal solid waste generated disposal facility**
- **Power requirement and source** 200 KW after expansion
- **Proposed energy saving measures**
- **RWH**
- **car parking**
- **Investment/Cost of the project** Rs. 105 Lac
- **Benefits of the project** Employment generation
- **Employment potential** 30-35

3. Project/ activity covered under item of Schedule to the EIA Notification, 2006 :- 3 (a)

4. Why appraisal/ approval is required at the Central level :- Being a Primary Metallurgical Industry its Category 'A'
5. National Park/ Wild Life Sanctuary in 10 km radius area :- NIL
6. Eco-Sensitive Zone in 10 km radius area :- NIL
7. Details of Forest land involved, if any :- NIL
8. ToR Details :- Letter No. J-11015/269/2012-IA.II (M) dated – 22nd August 2013
9. Details of Public Hearing and main issues raised/response of the PP :- Public Hearing Conducted: 25.07.2014
10. If any court case pending for violation of the environmental laws (supported by an undertaking) :- NIL
11. Ground water withdrawal approval from CGWA :- Obtained. NOC is not valid as on date.
12. For other sources, firm commitment of the water supply agency :- NIL
13. Undertaking to the effect that no activity has since been taken up :- -
14. Appraisal by State Coastal Zone Management Authority (SCZMA) :- -
15. Details of earlier EC, if any and compliance thereof :- -
16. 17. Details of earlier appraisal by EAC/ SEAC; observation and compliance:- Enclosed.

Observations and recommendations of committee of 16th EAC meeting held on 13th -14th December, 2018:

The EAC observed that earlier proposal was considered in the 45th EAC (Ind) meeting held on 11-12th August 2015. The committee observed that plant was established during 1995 and did not attract the provisions of the EIA Notification 1994 as the investment was less than 100 crores. The committee recommended the proposal for grant for EC as per EIA notification, 2006. However, EC was kept held as PP has enhanced the capacity of manufacturing unit from 1137 TPA to 1889 TPA in the year 2009-2010 without prior EC. Proposal was again placed in the meeting of EAC (Industry 1) held during 9th -10th April 2018. The committee reiterated its recommendations made earlier in 45th EAC meeting. 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) deliberated on this case and also discussed in detail with proponent about exact process that they followed, the existing status of what is being processed /manufactured. Facilities which are in place and also in operation. The PP informed that ROM obtained is physically separated into different grades and sell out as Manganese ore without any thermal/chemical procedure involved. The PP also admitted the mistake in writing in application about existing capacity MnO₂ (1750 TPA) & MnO (1750 TPA) which was never manufactured either as MnO & MnO₂.

PP also admitted that they have never manufactured MnO & MnO₂, though they have erected facility for making 1750 TPA MnO & MnO₂.

The committee deliberated on various options that emerges for taking decisions:

- (i) If it is believed that MnO & MnO₂ never manufactured though facility were in place, PP has only produced beneficiated ore, the prior EC condition is not applicable.
- (ii) If without EC after 2006, company has produced any quantity of MnO & MnO₂, project attracts violation for operating without EC.
 - a) Therefore, PP has to submit letter from Maharashtra Pollution Control Board (MPCB) with their comments on status of operations in these plants after 2006, particularly w.r.t operations of crucible (4 nos. installed before 2006) and any construction activity that has been carried out to meet the proposed expansion.
 - b) PP has to submit affidavit clearly specify production capacity at the time of inception of work (1995) and in subsequent years (1996-till close of unit). Affidavit may also be sought that they made no manufacturing process or no modified manganese products were attempted after 2006 at project site.
 - c) Various consents from State Pollution Control Board since inception of work After submission of above information, a decision on establishment of violation will be taken by the EAC.

Observations and recommendations of committee in the 25th meeting held during 29th-30th August 2019:

PP along with the consultant made the detailed presentation before the EAC on the information sought in the 16th meeting. EAC further deliberated on the project and observed following in the records available:

M/s Paonarkhari Minerals and Chemicals Pvt. Ltd. (PMC) was established in 1995 for processing of Manganese ore and is registered as a small-scale industry with the District Industries Centre, Bhandara. The unit is involved in purchasing raw material (i.e. Manganese ore of required grade) from Manganese Ore India Ltd. (MOIL) and Product is supplied to manufactures of Manganese Sulphate, which is used in fertilizers. PMC has proposed to expand its existing unit from capacity 3500 TPA of output (combined capacity of MnO & MnO₂) to 12000 TPA of combined capacity at Paonarkhari, Distt. Bhandara, Maharashtra.

The committee (Industry 1) observed that the plant was established during 1995 and did not attract the provisions of the EIA Notification, 1994 as the investment (i.e. 80 lakhs) was less than 100 crs. Subsequently the State Pollution Control Board directed to obtain the prior environmental clearance under the EIA Notification, 2006 before grant of consent to operate. Accordingly, the PP has made an application for Terms of Reference, granted ToRs and conducted Public Hearing. The EAC has recommended for grant of EC.

The project proponent neither have Consent to operate nor Environmental Clearance for the existing unit and it is observed that the production capacities varies with the enhancement to 1889 TPA in the year 2009-10 wherein violation was found out. It is also mentioned that the ore beneficiation process falls under category 3(a) of the Schedule of EIA Notification, 2006, primary metallurgical industries.

The EAC violation further observed that PP, in compliance of the ADS in the 16th meeting, submitted the letter from MPCB wherein it was mentioned that project site was visited on 04.05.2019 and observed that MnO plant though installed but not operative. Industry has installed 04 crucible furnace having capacity 3500 TPA & plant and machinery found in the dilapidated conditions. Jigging machine and pulverizer plant installed in the premises but not found in operation. MPCB further informed that as per the records available with this office, it appears that industry was commissioned before 2006 and no activity was carried out for expansion thereafter.

PP also submitted the affidavit wherein it was mentioned that in the instant project, process involves ROM obtained from MOIL is physically separated into different grades and sell out as Manganese ore without any thermal/chemical procedure. Further, it was also submitted that the quantity mentioned in 2009-2010 i.e from 1137 TPA to 1889 TPA is of trading and physical separation of ROM without any thermal/ chemical procedure. EAC based on the submission made by the PP on the ADS in the 16th meeting and information as available in the records, is of the view that Ministry may seek report from the concerned Regional Office, MoEF&CC on the following points:

- Report regarding whether industry obtained ROM from Manganese Ore India Ltd. (MOIL) is physically separated into different grades and sell out as Manganese ore without any thermal/chemical procedure.
- Date of installation of MnO plant and four crucibles for the production capacity of 12000 TPA. Also examine whether MnO plant was ever operated for the above production capacity.
- Details of the infrastructure created for the proposed expansion after September, 2006.

EAC opined that PP has to submit the following additional information to the Ministry:

- Affidavit clearly specify production capacity at the time of inception of work (1995) and in subsequent years (1996-till close of unit).

- Revised Form1 & prefeasibility report.

After submission of above information by PP and receiving report from the concerned Regional Office, MoEF&CC, a decision on establishment of violation will be taken by the EAC and therefore project is **deferred** for above clarification.

Observations and recommendations of committee in the 36th meeting (present meeting):

The EAC observed that earlier proposal was considered in the 45th EAC (Ind) meeting held on 11-12th August 2015. The committee observed that plant was established during 1995 and did not attract the provisions of the EIA Notification 1994 as the investment was less than 100 crores. Subsequently the State Pollution Control Board directed to obtain the prior environmental clearance under the EIA Notification, 2006 before grant of consent to operate. Accordingly, the PP has made an application for Terms of Reference, granted ToRs and conducted Public Hearing. The EAC has recommended for grant of EC.

The committee recommended the proposal for grant for EC as per EIA notification, 2006. However, EC was kept held as PP has enhanced the capacity of manufacturing unit from 1137 TPA to 1889 TPA in the year 2009-2010 without prior EC. Proposal was again placed in the meeting of EAC (Industry 1) held during 9th -10th April 2018. The committee reiterated its recommendations made earlier in 45th EAC meeting. The case was referred by the Industry 1 sector to violation committee to consider the proposal under the EIA notification, 14.03.2017.

EAC in previous meeting discussed in detailed with proponent about exact process that they followed, the existing status of what is being processed /manufactured. Facilities which are in place and also in operation. The PP informed that ROM obtained is physically separated into different grades and sell out as Manganese ore without any thermal/chemical procedure involved. The PP also admitted the mistake in writing in application about existing capacity MnO₂ (1750 TPA) & MnO (1750 TPA) which was never manufactured either as MnO & MnO₂.

EAC based on the submission made by the PP in the earlier meetings, sought report from the concerned Regional Office, MoEF&CC on the following points:

- Report regarding whether industry obtained ROM from Manganese Ore India Ltd. (MOIL) is physically separated into different grades and sell out as Manganese ore without any thermal/chemical procedure.
- Date of installation of MnO plant and four crucibles for the production capacity of 12000 TPA. Also examine whether MnO plant was ever operated for the above production capacity.
- Details of the infrastructure created for the proposed expansion after September, 2006.

Regional visited the site on 05.08.2020 and observed that the PP had installed 4 crucibles, scrubbers, fans and stacks and the same found to be in dilapidated condition. As per the documents provided by PP, it is observed that all the machineries were installed prior to 2006. PP submitted the electricity consumption bills. As per the bills it is observed that PP never operated the installed plant. It is observed that PP is only carrying out the physical process such as screening, separating manually, separation through magnet, grinding the ROM bought from MOIL and trading. No MnO is being manufactured and no thermal/chemical process is being carried out. The operation for reducing MnO₂ to MnO (3500 TPA) is therefore not being carried

out. It is observed that PP is only carrying out the physical process such as screening, separating manually, separation through magnet, grinding the ROM bought from MOIL and trading.

As per the R O report, details of ROM obtained from MOIL is as follows:

Year	Quantity of ROM purchased through MOIL (in Tonnes)
1995	1296
1996	612
1997	29
1998	308
1999	598
2000	725
2001	188
2002	95
2003	296
2004	610
2005	860
2006	661
2007	1202
2008	1145
2009	2081
2010	2571
2011	2014
2012	2136
2013	2489
2014	2624
2015	1556
2016	1782
2017	1649
2018	1895
2019	1846
2020	1717

Report concluded that PP established only 3500 TPA plant prior to 2006 and the unit was never operated. No infrastructure created for the proposed expansion. Presently the ROM (MnO₂) purchased from MOIL is being screened (manual), separated (manual/magnetic) and grinded. The separated ore (MnO₂) is being traded.

EAC in the present meeting (36th) based on the Regional Office, MoEFCC report observed that that installed MnO plant is of very small scale with minimum water consumption. The capital cost is less than Rs. 1 Crore. The industries are mainly dependant on ROM supplied by Manganese Ore India Limited (MOIL). EAC further noted that PP established only 3500 TPA plant prior to 2006 and the unit was never operated. No infrastructure created for the proposed expansion. Presently the ROM (MnO₂) purchased from MOIL is being screened (manual), separated (manual/magnetic) and grinded. The separated ore (MnO₂) is being traded.

EAC in view of the R.O report *recommended that instant proposal in not under violation of EIA Notification 2006* and therefore may be referred to the Industry-I sector for further necessary action at their end.

36.4.5. Sponge Iron Plant (4X100 TPD), Induction furnace (2×12T +1X12T), Rolling Mill (90,000 TPA) and 18 MW power plant [6 MW WHRB, 2 MW Coal char based and 10 MW Coal based] of M/s Jharkhand Ispat Private Limited located at Hesla, P.O. Argada, District Ramgarh, Jharkhand – Further consideration for Terms of Reference. [F. No. J-11011/41/2013-IA.II(I)]

Project proponent alongwith the consultant M/s Vardan Environet made the detailed presentation and submitted the following information:

- i. M/s Jharkhand Ispat Private Limited (JIPL) has established 2x100 TPD Sponge Iron Plant at Village Hesla, P.O. Argada, District Ramgarh, Jharkhand after obtaining CTE from Jharkhand State Pollution Control Board (JSPCB) on 31.07.2003. Environmental clearance for installation of the Plant, as per EIA Notification 1994, was not required as the project cost was less than 100 Crores.
- ii. JIPL installed another 2 x100 TPD Sponge Iron Plant and 240 TPD MS Billet Plant (2x12 Ton Induction Furnace with Billet caster) after obtained CTE from JSPCB on 06.11.2006, which is in violation to EIA Notification issued by the Ministry on 14th September, 2006
- iii. JSPCB issued Consent to Operate (CTO) for operation of all installed Units till 30.09.2012. At the time of renewal of CTO for the period 01.10.2012 to 30.09.2013, JSPCB directed the proponent to give clarification in person to Member Secretary as to why the application for grant of CTO for 2x100 TPD Sponge Iron Plant and 240 TPD MS Billet Plant installed during 2006. Thereafter, JSPCB granted CTO for the period 01.10.2012 to 30.09.2013 only for operation of 2x100 TPD Sponge Iron Plant, installed during the year 2003.
- iv. JIPL submitted application on 11.01.2013 for grant of TOR for obtaining EC vide letter no. JIPL/1124/12-13 on for 2x100 TPD Sponge Iron Plant and 240 TPD MS Billet Plant which are under violation and 1x12 Ton Induction Furnace, 90,000 TPA Rolling Mill & 18 MW Power Plant under expansion.
- v. Proposal was considered in 7th Reconstituted EAC (Ind) Meeting of MoEF&CC on 04.04.2013 and as the proposal is for violation, MoEF&CC vide letter dated 12.06.2013 directed JIPL to submit compliance as per OM dated 12/12/2012. JIPL submitted the Board Resolution and Credible action to MoEF&CC on 04.01.2014.
- vi. The proposal was considered in 31st Reconstituted EAC meeting held on 08.01.2015 and again on 1st EAC Meeting held on 20.11.2015 and TOR for the project was recommended. MoEF&CC vide letter dated 08.01.2016 granted TOR.
- vii. Final EIA was submitted to MoEF&CC on 25.04.2018. Public Hearing for the project was held on 06.05.2017. EDS issued by MoEF&CC on 17.01.2019 mentioned; “The proposal is involved Violation for EIA Notification, 2006. Therefore, you are requested to make application under violation after issue of such notification for dealing of violation proposals”. The proposal is delisted the proposal from Ministry’s website on 07.06.2019.

- viii. JIPL requested MoEF&CC to relist the project and transfer the same to the violation committee as 'Lateral Proposal Entry', as per MoEF&CC OM 09/09/2019.
- ix. Proposal was considered in 33rd meeting of EAC (Violation) held on 18.05.2020. Committee recommended to submit the duly signed hardcopy of the following documents: a) Revised Form-1 and PFR having details of Violation, b) Year-wise production details including total cost of the project, prior to September, 2006.
- x. Duly signed by authorized person of company, hardcopy of Form-1, PFR having details of violation, Year-wise production and project cost details and other documents were submitted to MoEF&CC on 08.09.2020.
- xi. The total land area of the plant is 14.38 Ha (35.54 Acres). The existing land of the plant is 25.54 Acres (10.34 Ha.). Additional 10 Acres (4.04 Ha.) is taken on 30 years lease from M/s Durga Cements Co. Ltd., Ramgarh for installation of the proposed units.
- xii. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. are reported to be located in the core and buffer zone of the project. The area also does not report to form corridor for Schedule-I fauna.
- xiii. Capital cost of proposed project is Rs. 186.63 crores. Cost of the non-violating units is 22.41 Crs and Violating installed Units is Rs. 31.71 Crs. Hence total cost of the project is Rs. 240.75 Cr. Proposed employment generation from the project will be 174 direct employments and approx. 250 indirect employments.
- xiv. The targeted production capacity of the plant will be as follows:

Sl. No.	Units	Existing Units		Units under Violation		Proposed Units		Total Units after Expansion	
		Facility	Prod. (TPA)	Facility	Prod. (TPA)	Facility	Prod. (TPA)	Facility	Prod. (TPA)
1.	Sponge Iron	2x100 TPD DRI Kilns	60000	2x100 TPD DRI Kilns	60000	-	-	4x100 TPD DRI Kilns	120000
2	SMS Induction Furnace	-	-	2x12T	-	1x12T	-	3x12T	-
	Billet Caster	-	-	2x6/11	72000	1x 6/11	36000	3x 6/11	108000
3.	Rolling Mill	-	-	-	-	300 TPD	90000	300 TPD	90000
5.	Captive Power Plant AFBC Boiler WHRB	-	-	-	-	1 No. 4 Nos.	12 MW 6 MW	1 No. 4 Nos.	12 MW 6 MW

- xv. Total power requirement will be 18 MW. Initially power will be sourced from Grid. After commissioning of Captive Power Plant 18 MW power will be available from Power Plant.

xvi. The raw material requirement and fuel requirement after the project expansion are:

S.No.	Item	Requirement in TPA		
		Non-Violating Units	Violating Units	Proposed Units
1.	Iron Ore	102,000	102,000	-
2.	Non-Coking Coal	84,000	84,000	58,750
3.	Dolomite	3,000	3,000	-
5.	Scrap	-	15,540	6,810

The iron ore for the plant will be procured from West Singhbhum, Jharkhand & Barbil, Odisha and non-coking coal from CCL. The transportation of Ore & Coal will be done by rail up to Barkakhana Railway siding then by road. Fuel consumption will be mainly HSD.

xvii. Total water consumption for the project will be 2906 KLD (For Non-Violating units: 170KLD, For Violating units: 406 KLD, For Proposed Units: 2330 KLD) and will be sourced from Damodar River. Domestic waste-water will be treated in Septic Tank with Soak Pit and Industrial waste water generated will be treated in Neutralisation Pit and reused for slag cooling and dust separation etc.

Observations and recommendations of 31st EAC meeting held on 28th Feb, 2020

Project proponent did not attend the meeting.

Observations and recommendations of 33rd EAC meeting held on 18th -19th May 2020

Proposal was not discussed on technical aspect by the EAC as PP has not submitted the violation details in Form 1 which is mandatory and a prerequisite to appraise the project for ToR. Further, details of the projects including kml file were circulated late to the EAC members by the PP. EAC therefore **deferred** the project for submission of following:

1. Revised Form 1 and PFR having details of violation.
2. Year wise production details including total cost of the project, prior to September 2006.
3. Hard copies of all the documents duly signed be submitted to the Ministry.

Observations and recommendations of the EAC in the present meeting (36th)

EAC after detailed presentation by the PP, observed that project proponent has installed 2 x100 TPD Sponge Iron Plant, 2x12 Ton Induction Furnace with Billet caster violating the provisions of the EIA Notification, 2006.

The EAC, after detailed deliberations appraised the instant proposal 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. Public Hearing (PH) has been conducted on dated 06.05.2017 and was valid at the time of earlier EAC meetings and submission of application to the Ministry, committee felt that one time PH as per the order of Hon'ble High Court of Madras has already taken care and hence repeat PH is not required, ***if it is conducted for the capacity for which the application for EC is referred to the violation committee.***
- 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. CTO conditions compliance report from concerned region office of SPCB.
- xii. Detailed Risk Assessment studies with modelling to be submitted in the EIA/EMP report.
- xiii. Water requirement, waste water generation, water balance and waste water treatment.

- xiv. Traffic density study to be carried out and impact prediction modelling to be submitted in the EIA/EMP report.
- xv. Layout plan earmarking space for 33% greenbelt with in Industry, around the compound wall.
- xvi. Details as per Annexure XI as mentioned in the agenda shall be submitted.
- xvii. Greenbelt Development & Ecology Restoration programme with Budgetary provisions (for the 1st two years) to mitigate the Predicted impacts.

36.4.6. Mining of 1003 m³/annum of Black Granite in ML Area 166.920 Ha, located at Survey No. 917(Part) & 921(Part), village Mahimandalam, Katpadi Taluk, District Vellore, Tamil Nadu by M/s Tamil Nadu Minerals Limited - Environmental Clearance

[Proposal No. IA/TN/MIN/112499/2017] [F. No. 23-203/2018-IA.III (V)]

Project proponent alongwith the consultant (Hubert Enviro Care Systems (P) Ltd. Chennai (NABET/EIA/1619/RA 0083 validity 29.09.2020)made the detailed presentation before the EAC and submitted the following information:

Black Granite Quarry of M/s. Tamil Nadu Minerals Limited Located at Survey No. 917 & 921, Mahimandalam Village, Katpadi Taluk, Vellore District, Tamil nadu state.

1. **Name of the project:** - Mahimandalam Black Granite Quarry over an extent of 166.92.0 Ha. Production Capacity 1003 m³/Annum) of Tamil Nadu Minerals Limited
2. **Name of the Company, Address Tele No. & E-mail Head of organization**
 M/s. Tamil Nadu Minerals Limited (A Government of Tamil Nadu Undertaking)
 Tmt. R. Gajalakshmi I.A.S
 Managing Director,
 M/s. Tamil Nadu Minerals Limited,
 31 Kamarajar Salai, Chepauk,
 Chennai – 600005, Tamil Nadu
 E mail: tamin@tamingranites.com
 Telephone : 044 - 28524563, 044 - 28525113
 Fax No. : 044-28524960
 Mobile : 9488855535
3. **If a Joint venture, the names & addresses of the JV partners including their share :-**
 Nil
4. **Latitude and Longitude of the project :-** 13°4'53.86"N to 13° 5'27.78"N, 79°12'0.63"E to 79°13'54.09"E
5. **Whether the project is in the Critically Polluted Area (CPA):-** No
6. **Cost of the project :-** Rs. 100 Lakhs
7. **Whether new or expansion project. If expansion: No**
 - (i) from MT to MT Existing Quarry.
 - (ii) What is the % of expansion

8. If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006. :-

Yes. Applied for seeking environmental clearance

9. Whether new or expansion project. If expansion

Existing Quarry. Not Applicable

10.No. and Date of the ToR /and revised ToR, if any, letter issued by the MoEF (if this is a case for EC)

S. No	Year	Activity	Reference
1	13.04.2015	EC Application (before 14 th March 2017 violation)	IA/TN/MIN/27398/2015
2	01.05.2015	EC Application acceptance by	Acceptance letter
3	15.05.2015	Proposal Considered in 33 rd EAC Meeting	33 rd EAC Agenda
4	05.06.2015	ToR Issued by MoEF&CC	J-11015/131/2015-IA 11(M)
5	Dec-2015 to Feb 2016	Baseline studies	--
6	02.12.2016	Public Hearing	Public Hearing proceedings
7	06.09.2017	EC Application as per 14 th March 2017 violation notification)	IA/TN/MIN/67985/2017
8	01.08.2018	Proposal considered in 11 th EAC meeting proposal involving in Violation	11 th EAC Agenda No 11.4.7
9	12.08.2018	Project is deferred in 11 th EAC meeting & Additional details are sought by MS	Additional details submission in portal
10	10.10.2018	Additional details sought furnished & uploaded at	Acceptance mail received from MS on Nov 16 th
11	29.11.2018	Proposal considered in 15 th EAC meeting proposal involving in Violation	15 th EAC Agenda No. 15.5.5
12	15.01.2019	Terms of Reference under Violation Category with Exemption of Public Hearing & One season baseline studies	No. 23-203/2018-IA.III(V)
13	Dec-2018 to Feb 2019	Base Line Studies(One Season)	--
14	26.07.2019	Final EIA submitted	IA/TN/MIN/112499/2017
15	14.08.2019	File returned to proponent due to EDS	Incorporated all the EDS in EIA and will submit for Appraisal
16	11.09.2020	EDS uploaded	-

11.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

12. If the project was considered in EAC, Pl. give dates of the meeting (s).

1. ToR Presentation Agenda No. 33rd meeting of the reconstituted expert appraisal committee (non-coal mining), scheduled during 15th may, 2015. Agenda No. 2.31.
2. Proposal Considered in 11th EAC meeting proposal involving in Violation category. 11th EAC Agenda No 11.4.7 on 01.08.2018.
3. Proposal considered in 15th EAC meeting proposal involving in Violation. 15th EAC Agenda No. 15.5.5

Terms of Reference under Violation Category with Exemption of Public Hearing & One season baseline studies vide letter No. No. 23-203/2018-IA.III (V) dated 15.01.2019.

13. Type of Mine: (Open cast/Underground/mixed) :- Opencast Semi- Mechanized Method

14. Capacity of the mine applied for:- 1003 m³ per annum

15. ML Area

(i) As per block allotment :- Lease area over an extent of 166.92 Ha.

(ii) As per approved mine plan:- Land Use Pattern of the lease area:

S. No	Particulars	Extent in Ha	End of Mine Life
1	Mine Pit area	8.86	53.0
2	Road	1.46	4.06
3	Afforestation	1.00	21.75
4	Office Building	0.75	-
5	Existing Waste Dump	5.0	2.25
6	Proposed Waste Dump	3.11	72.84
7	Unmined area	146.74	13.02
Total Mine Lease area		166.92	166.92

16. Date of approval of mine plan, mine closure plan, status & date

1. Mining Plan: approved by Director of Geology and Mining Letter RC. No. 14624/MM2/2001 dated 16.11.2001 valid up to 2006.
 2. Scheme of mining-I vide Letter No. 8301/ML3/2007 dated.17.04.2007(deemed to approved)
 3. Scheme of Mining-II Letter No.2366/ML2/2012, dated. 21.02.2012. (deemed to approved)
- Scheme of mining III is submitted vide Letter No 2366/ML3/2016, dated. 13.05.2016 period: 2016-17 to 2020-21 and Approved by Director of Geology and Mining Letter RC. No. 2675/MM4/2020 dated 03.07.2020.

17. Date of Board's approval :- Mining Plan approval on 16.11.2001

18. Date of Ground water clearance and surface water approval.:- Not Applicable

19. Existing Ground water level in (M)

The thickness of weathered zone varies from less than a meter to about 15 m in the area depending on the topography. Potential aquifer zones are also developed in these rocks by fractures persisting to depths, particularly along lineaments and their inter sections. The depth of dug wells in crystalline formations varies from 8 – 19.5 m BGL. Fracture zones have been encountered in the well down to a depth of 116 m bgl in the borehole drilled by CGWB. The thickness of alluvium along the course of Palar River ranges from 8 – 12 m.

20. Date of mine closure approval

Scheme of mining III is submitted vide Letter No 2366/ML3/2016, dated. 13.05.2016 period: 2016-17 to 2020-21 and Approved by Director of Geology and Mining Letter RC. No. 2675/MM4/2020 dated 03.07.2020.

21. Any river/Nallah flowing near or adjacent to the proposed mine. If yes, please give details. The nearest river is Ponnai River is about \approx 4.18 km towards E direction

22. Details of mine lease:-

<p>1. Date of entering into Original lease deed. Quarry lease was granted over an extent of 373.36.5 Ha. In SF. No. 917 & 927 of Mahimandalam village, Walajah Taluk, (Now Katpadi Taluk), Vellore District, Tamil Nadu for 10 years vide G.O. Ms. No. 300 Industries Department, Dated 26.06.1991.</p> <p>2. Date of expiry of original lease deed: 22.11.2001</p>	<p>1. Date of 1st lease Renewal: Subsequently TAMIN filed the renewal lease application for the remaining extent of 247.0 ha. (373.36.5 – 126.36.5 = 247.0 ha.) For 20 years vide letter date on 17.11.2000 & 28.03.2001. The Mining Plan was approved by Director of Geology and Mining Letter RC. No. 14624/MM2/2001, Dated 16.11.2001.</p> <p>2. Whether renewal or deemed renewal: Nil</p> <p>3. Date of expiry of 1st lease renewal/deemed Renewal: Nil</p>
<p>1. 2nd Lease approval Further, TAMIN once again requested the government to reduce the lease area by an extent of 80.08.0 ha. from 247.0 ha. (247.0 – 80.08 = 166.92 ha.) and the government have accepted and granted renewal lease for 166.92 ha. Vide G.O. 3D No. 45 Industries (MME 1) Department, Dated 20.11.2002 for 20 years</p>	<p>1. Date of Expiry of 2nd Lease: 22.11.2022</p>

TECHNICAL DETAILS

22. Geological Reserve:

(i) Total geological reserve-	86, 14,000m ³
(ii) Mineable reserve-	84, 19,563 m ³

- (iii) Extractable reserve- 84, 19,563 m³
 (iv) Percent (%) of extraction-97.7 % (Total Geological Vs Mineable Reserves)
 (v) Range of ground water level-

The thickness of weathered zone varies from less than a meter to about 15 m in the area depending on the topography. Potential aquifer zones are also developed in these rocks by fractures persisting to depths, particularly along lineaments and their inter sections.

The depth of dug wells in crystalline formations varies form 8 – 19.5 m BGL. Fracture zones have been encountered in the well down to a depth of 116 m BGL in the borehole drilled by CGWB. The thickness of alluvium along the course of Palar River ranges from 8 – 12 m.

- (vi) Total estimated water requirement – 12.0 KLD

(vii) Details of intersecting ground water level:

Maximum proposed mine depth – 25 m above Ground level. Due to less transmissivity, hydraulic discontinuity, occurrence of saturated water table mostly beyond 116m, no intersection of ground water table is envisaged.

23. Details of Deposits:

- i. Depth of over body -25m AGL
- ii. Grade of ore - Black Granite
- iii. Stripping ratio - 1:1.03

24. Method of mining: - Open Cast Semi-Mechanized Mining Technique.

25. Life of mine: 20 years (Considering the present proved mineable reserves, up to 25m depth above ground level)

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:

Monitoring was carried out during Post Monsoon season (December 2018 to February 2019). All monitored values were found to be well within the prescribed limits.

27. Whether the monitoring report of earlier EC from MoEF Regional Office has been obtained, in case the proposal is for expansion- No

28. Details of O.B

- (i) External OB dumps : Nil
- (ii) No of OB dumps : Single
- (iii) Area of dump area : 75.09 Ha. (Within the lease area)
- (iv) Height of each dump : -- 5m
- (v) Quantity (in MCm) of OB in each dump : --

- (vi) Year of back filling : -- No back filling
- (vii) No. of OB dumps reclaimed : -- Nil
- (viii) If garland drains and settlement facility for runoff created: - Nil
- (ix) Whether runoff water being utilized: -- Yes

29. Details of Internal Dumps:

- (i) Number of internal dumps : Nil
- (ii) Area of each dump : 5.0 Ha
- (iii) Height of each dump : 5m height and the angle of slope of dumps will be at 45° from horizontal.
- (iv) Quantity of wastes generation : 150419 m³ Proposed during SOM-III: 2016-2017 to 2020-2021) No backfilling envisaged now.

30. Utilization potential of wastes :-

- (i) Within the mines : 75.09 Ha.
- (ii) Outside mines : Nil
- (iii) Efforts made by proponent : Nil

The existing dump area is 5.0 Ha. & proposed waste dump area in the beginning of scheme III is 3.11 Ha. and during end of the life of the mine is 75.09 Ha. The unsold blocks are kept within the boundary on the country rock area. The dumps will be maintained not exceeding 5m height and the angle of slope of dumps will be at 45° from horizontal.

31. Details of final Mine Voids

- (i) Area : 166.92 Ha
- (ii) Depth : 25m AGL (from the top of the hill)

32. Details of Quarry:

- (i) Total quarry area : 166.92 Ha
- (ii) Backfilled quarry area of : No back filling
- (iv) Green belt created in ha.- : 21.75Ha.

33. Details of Land usage

S. No.	LandUse	WithinMLArea(Ha)	Outside ML Area(Ha)	Total (Ha)
1.	Agricultureland	Nil	Nil	Nil
2.	Forestland	Nil	Nil	Nil
3.	Wasteland	Nil	Nil	Nil
4.	GrazingLand	Nil	Nil	Nil
5.	Surface water bodies	Nil	Nil	Nil
6.	Settlements	Nil	Nil	Nil

7.	Other(Government Poramboke land)	166.92	Nil	166.92
	TOTAL	166.92	Nil	

(i) **Pre-mining** :Government Poramboke

(ii) **Post- Mining** : It is proposed not to close the mine & backfill at the expiry of 20 years. Hence, the life of the mine may extend further and as such, mine closure is not planned now.

(iii) **Core area** : Present area 8.86 Ha and 53.0 Ha by end of Quarry life

34. **Details of Forest issues:** Nil

35. **Costs of the project:**

- i. **Total capital Cost** : Rs. 100 lakhs
- ii. **Cost of Production** : Dispatched directly to the beneficiation plant.
- iii. **Sale Price** : Not considered
- iv. **CER cost** : Rs. 2.0 Lakhs (Since it is a violation project 2% of the project cost is considered for CER.
- v. **R&R Cost** : Nil (Government Poramboke&Patta lands owned by TAMIN)
- vi. **No of PAFs** : Nil
- vii. **Cost for implementing EMP:**20.45 Lakhs (18.0 Lakhs Capital and 2.45 Lakhs for Recurring cost)

36. **Details of villages/habitation in mine lease area-**

(i) Inside the lease: Nil

(ii) Surrender by lease:

S. No.	Name of the Villages	Approximate distance & direction from project site	Population (Census 2011)
1	Bodinattam village (in m)	56 (S)	200
2	Ammavaripalli(in Km)	1.35 (SE)	1000
3	Perumalkuppam (in Km)	1.89 (NE)	1300

4	Vallimalai (in Km)	3.7 (NE)	1000
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(iii) Extent of cropland acquired/ being acquired in ha: *Nil*

37. Details of transportation of mineral

- (i) In pit: By Tippers
- (ii) Surface to siding: Not Applicable
- (iii) Siding to loading: Not Applicable
- (iv) Quantity being transported by Road/Rail/conveyer /ropeway – 100% by road
- (v) Proposed change in transportation means if any, give details - Not Applicable

38. Details of reclamation:

- a. Afforestation shall be done covering an area of **21.75 Ha** at the end of mining.
- (i) Reclaimed external OB dump (in ha): **Nil**
- (ii) Internal dump (in ha) : **Nil**
- (iii) Green belt (in ha) : **21.75 Ha.**
- (iv) Density of tree plantation (in no of plants): **32625**
- (v) Void (in ha) at a depth of (inm) which is proposed to be converted into waterBody: **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): **Nil**
- (vii) Agriculture and horticulture: **Nil**
- (viii) Fisheries: **Nil**
- (ix) ECO Tourist/recreation spot: **Nil**

III. LEGAL ISSUES - : Not applicable

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

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

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

Not applicable

41. 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	Excess production beyond the EC (MTPA) sanctioned capacity
	Quarry is in operations without EC from 1995-96 to 2016-17, Now the proposal is applied for getting Environmental Clearance and year wise production since year 1995 is given below		

Year wise production details since year 1995 for Black granite are shown below in tones:

Year	Proposed	Actual
	ROM	ROM
1995-1996	0	643
1996-1997	0	0
1997-1998	0	5183
1998-1999	0	13078
1999-2000	0	17266
2000-2001	0	12993
2001-2002	37590	15977
2002-2003	36432	25985
2003-2004	37944	18128
2004-2005	37080	13489
2005-2006	37944	15301
2006-2007	26880	16733
2007-2008	26640	15333
2008-2009	26640	8200
2009-2010	26880	23433
2010-2011	26880	39933
2011-2012	33435	24267
2012-2013	33301	29133
2013-2014	33419	25,167
2014-2015	33321	11333
2015-2016	33409	14933
2016-2017	33,386	30267
2017-2018	31,373	0
2018-2019	33,432	0
2019-2020	33,415	0
2020-2021	33,430	0

IV. PUBLIC HEARING ISSUES:

42. Date and Place of public hearing:

The public hearing for this project was conducted on 02.12.2016 (11.00 A.M) at Sri Srinivasan Marriage Hall, 264, Thavapedam Road, Vallimalai Post, Katpadi Taluk, Vellore District

43. The designation of officer presided over the PH

Thiru.K. Manivannan District Revenue Officer, Vellore District.
Thiru.M. Pannirselvam District Environmental Engineer
Thiru. E. Ganesan Deputy Manager, M/s. TamilNadu Minerals Ltd.,
Thiru. K. Sakthivel Manager, M/s. TamilNadu Minerals Ltd.,
And Public

44. Number of representation received in writing from the district and outside of district: Out of 70 public participants, 7 participants were raised questions and their views and reply by proponent were recorded as minutes of the public hearing.

Summary of Remediation Plan, Natural Resource Augmentation Plan & Community Augmentation Plan for Damage Assessment,

S. No	Name of the area	Budget (Rs)
1	Land Environment	1,90,000
2	Air Environment	9,70,000
3	Water Environment	1,15,000
4	Noise & Vibration Environment	1,10,000
5	Ecological Environment	50,000
6	Socio-Economic Environment	1,50,000
7	Occupational Health & Safety	1,40,000
Total Budget allocated for remediation measures		17,25,000

Total Budget proposed

S. No	Name of the area	Budget(Rs)
1	Estimation cost for remediation plan based on the Damage Assessment due to violation	17,25,000
2	Natural Resource Augmentation Plan	3,60,000
3	Community Resource Augmentation Plan	1,00,000
Grand total		21,85,000

Observation and recommendations of the EAC in the present meeting (36th)

EAC deliberated on the information as presented and submitted by the PP. EAC further deliberated on the damage cost and remediation, NRAP and CRAP plan cost assessed by the PP. EAC also deliberated on the activities proposed under the plans. EAC after detailed deliberation **deferred** the proposal for want of the following information:

1. Revised AAQ impact with and without control measures.
2. Revised damage assessment plan and accordingly the remediation and NRAP and CRAP considering specifically Air, Water, and Land use and also it should consider economic benefits accrual and savings on EMP during the violation period.
3. Proposed mitigation and management measures for the old dumps numbering 12.
4. Status of credible action.
5. Details of green belt/compensatory afforestation in the mining lease area based on impact prediction/mitigation measures, to be submitted.

36.5.0 Discussion on any other item with permission of the Chair.

36.5.1: Cluster of Godavarikhani No. 1&3 Inclines, Godavarikhani No. 2&2A Inclines and Godavarikhani No.5 Incline, Telangana by M/s Singareni Collieries Ltd.- for Environmental Clearance- Reconsideration for Environmental Clearance [IA/TG/CMIN/131588/2017] [F.No.23-78/2018-IAIII(V)]

Above proposal was considered in the 32nd meeting held on 22-23rd April 2020. EAC in the said meeting recommended the proposal for grant of Environmental Clearance subject to the compliance of certain specific conditions in addition to all standard conditions applicable for such projects. EAC recommended for an amount of Rs 277.1 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan, to be spent within a span of three years. EAC re-considered the project in the 34th meeting wherein activities recommended under remediation as well as natural and community resource augmentation plan were revisited for stipulation of limited number of activities but focussed towards mitigation measures with a budgetary provision as recommended. Accordingly, PP made the presentation on the limited number of activities under remediation as well as natural and community resource augmentation plan but focussed towards mitigation and same was recommended by the EAC.

EAC observed that file has been referred to the violation sector by the coal mining sector as some of the activities proposed under remediation plan are related to monitoring and dust suppression and therefore may not effect have a physical impact on ground. Accordingly, PP was asked to revised the activities. Project proponent in the 36th EAC meeting, presented the following R.P, CRA and NRA with budgetary provision of Rs **277.10 lakhs:**

1. **Remediation Plan** alongwith budgetary provisions

S.No .	Component Remediation	Remediation Proposed	Description	Locations	Unit Rate in Rs.	Total Qty.	Total Cost (Lakhs)	Year -I (Lakhs .)	Year II (Lakhs .)	Year III (Lakhs)
1	Air Environment	Roads	Laying of 10' CC road	Mustyala 2. Jangaon	50,00,000	1000m	50.00	20.00	15.00	15.00

2	Noise Environment and Ecology	Plantation	Plantation of total 2060 No.s native plants at Rs.1000 per sapling, including maintenance for 3 years in nearby 2 villages and peripheral area immediately outside mine boundary	Sundilla 2. Jangaon 3. Periphery area immediately outside mine boundary area	1,000	2060	20.60	10.60	5.00	5.00
3	Water Environment	Construction and annual maintenance of 10 Nos. Rain Water Harvesting structures in nearby villages	Construction of RWH-10 Nos @ 2,50,000/per RWH (including raw material, labour, construction and maintenance for one year	1. Sundilla 2. Gunjapadugu 3. Mustyala 4. Nagaram 5. Ranapur	2,50,000	10	25.00	10.00	10.00	5.00
Total (Rs.)							95.60	40.60	30.00	25.00

2. **Natural Resource Augmentation Plan alongwith budgetary provisions:**

S.no	Component	Activity Proposed	Description	Locations	Rate	Total Qty.	Total Cost (Lakhs)	Year -I (Lakhs.)	Year II (Lakhs.)	Year III (Lakhs)
1	Natural Resource Augmentation Plan	Energy Conservation by adapting Green Energy technology.	Providing 1 kw Solar Street Lighting (including panels, inverters, wiring, structure, connectors, junction boxes, etc.) in nearby 5 villages as per the requirement of village	1. Jangaon 2. Sundilla 3. Mustyala 4. Peddampeta 5. Godavarikhani	50,000	225	112.50	37.50	37.50	37.50

			Panchayats @ Rs.50,000 per unit.							
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3. **Community Resource Augmentation Plan alongwith the budgetary provisions:**

S.no	Component	Activity Proposed	Description	Locations	Rate	Total Qty.	Total Cost (Lakhs)	Year -I (Lakhs.)	Year II (Lakhs.)	Year III (Lakhs)
1	Community Resource Augmentation Plan	Development of Infrastructure	Construction of Toilets and renovation of school building in nearby villages.	1. Sundilla 2. Bestapalli 3. Siripuram 4. Chandanapuram 5. Malkapur 6. Chillapalli 7. Dubbapalli 8. Jangaon	LS	LS	69.00	23.00	23.00	23.00
Grand Total(1+2+3)							277.10	92.50	92.30	92.30

Summary

Sl. No.	Description	Estimated cost (Rs. in Lakhs)
1	Remediation Plan	95.60
2	Natural Resources Augmentation Plan	112.50
3	Community Resources Augmentation Plan	69.00
Total		277.10

EAC deliberated on the above revised activities proposed by the PP. EAC after detailed deliberation once again reiterated its recommendations made in the 32nd meeting and recommended the revised activities as tabulated above (total budgetary provision of Rs 277.10 lakhs; RP: Rs 95.60lakhs and NRA: Rs 112.50 lakhs & CRA: Rs 69.00 lakhs), against the activities recommended in earlier EAC meetings.