



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date: January 27, 2020

To,
M/s MOIL Limited
at Topo sheet No 55 K/15 & 55O/3

Subject: Environment Clearance for Gumgaon Manganese Mine (Underground)

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 172nd meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 185th meetings.


2. It is noted that the proposal is considered by SEAC-I under screening category Category B-1, Project activity -1(a) as per EIA Notification 2006.

Brief Information of the project submitted by you is as below :-

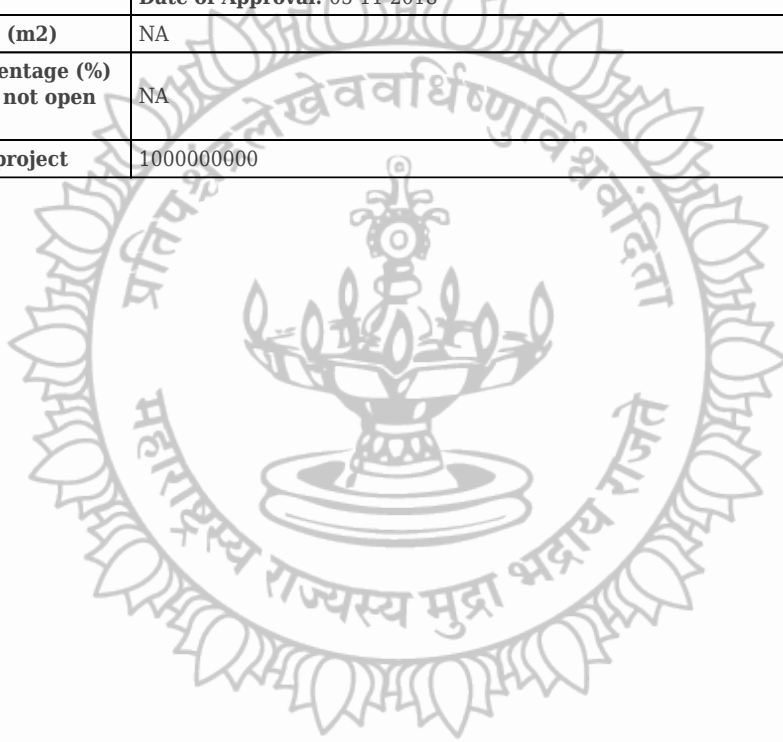
1.Name of Project	Gumgaon Manganese Mine
2.Type of institution	Government
3.Name of Project Proponent	M/s MOIL Limited
4.Name of Consultant	Wolkem India Limited, Udaipur, Rajasthan
5.Type of project	Mining of Manganese mineral
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion project - mining of Manganese mineral with enhancement of production capacity from 90,000 MTPA to 2,03,200 MTPA.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, The Environmental Clearance was granted vide J-11015/77/2003-IA.II (M) dated 6/12/2004.
8.Location of the project	Topo sheet No 55 K/15 & 55O/3
9.Taluka	Saoner
10.Village	Gumgaon, Khapa, Tegai and Rajna
Correspondence Name:	Mr. KISHORE CHANDRAKER
Room Number:	NA
Floor:	NA
Building Name:	MOIL Bhawan
Road/Street Name:	1-A ,Katol Road,
Locality:	Katol Road
City:	Nagpur
11.Whether in Corporation / Municipal / other area	other area
12.IOD/IOA/Concession/Plan Approval Number	Composite scheme of mining & PMCP for all the leases was approved vide letter No. NGP/MN/MPLN-258/NGP. Dated 09/07/2013. IOD/IOA/Concession/Plan Approval Number: Composite scheme of mining & PMCP for all the leases was approved vide letter No. NGP/MN/MPLN-258/NGP. Dated 09/07/2013. Approved Built-up Area:

SEIAA Meeting No: 185 Meeting Date: January 10, 2020 (SEIAA-STATEMENT-000001849)
SEIAA-MINUTES-0000002938
SEIAA-EC-0000002093

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Shri. Anil Diggikar (Member Secretary SEIAA)

13.Note on the initiated work (If applicable)	It is a existing Mining project
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	The LOI for ML area of 85.896ha. has been issued on 6th April, 2016 through PL route.
15.Total Plot Area (sq. m.)	85.896 Ha
16.Deductions	NA
17.Net Plot area	85.896 Ha
18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): NA
	Non FSI area (sq. m.): NA
	Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 05-11-2018
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	1000000000



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22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Manganese Ore	7500	9433	16933

23. Total Water Requirement

Dry season:	Source of water	Underground Mine and bore well
	Fresh water (CMD):	710
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	710
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	Source of water	Underground Mine and bore well
	Fresh water (CMD):	710
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	710
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Fresh water requirement	200	510	710	20	51	71	NA	NA	NA
Industrial Process	36	50	86	3.6	5.0	8.6	NA	NA	NA
Gardening	200	224	424	20	22	42	0	0	NA
Domestic	100	100	200	10	10	20	NA	NA	NA

25.Rain Water Harvesting (RWH)	Level of the Ground water table:	In the area the groundwater level is ranging between 2 m to 6.0 m bgl in the rainy season and 8 m to 10 m in summer season.
	Size and no of RWH tank(s) and Quantity:	As per CGWA guidelines
	Location of the RWH tank(s):	M.L area
	Quantity of recharge pits:	For "C" Type Quarter - It is estimated that about 132.00 m ³ /yr. of rainwater will be recharged to the groundwater through proposed recharge scheme. For "A" Type Quarters:- It is estimated that about 202.00 m ³ /yr. of rainwater will be recharged to the groundwater through proposed recharge scheme.
	Size of recharge pits :	A recharge pit having the dimension of 2m x2.5m and 1.50m deep has been proposed for the "C" type quarters building. For "A" type quarters, a recharge pit of 2.0mx 2.0m and 1.50m deep has been recommended based on the rainfall data. The Parapet wall of 0.30m with one side over flow pipe above the ground level may be constructed. RCC cover should be provided on top of the recharge pit.
	Budgetary allocation (Capital cost) :	Rs 50000
	Budgetary allocation (O & M cost) :	Rs 20000
Details of UGT tanks if any :	Not Applicable	

26.Storm water drainage	Natural water drainage pattern:	The main water course of the area is Kanhan River which flows about 1.5 kms on the eastern side of the lease. The Korardhari nala flows through south of the lease hold area and join at 2.5 km down south-east to Kanhan River. Also there are number of non-perennial water courses and nalas originating from the above mentioned ridges from higher slopes of the hill to main drainage system of Kanhan River.
	Quantity of storm water:	As per CGWA guidelines
	Size of SWD:	As per CGWA guidelines

27.Sewage and Waste water	Sewage generation in KLD:	500 KLD
	STP technology:	Anerobic
	Capacity of STP (CMD):	No.1 and 500 KLD
	Location & area of the STP:	M.L area
	Budgetary allocation (Capital cost):	Rs 4500000/-
	Budgetary allocation (O & M cost):	Rs 20000/-



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28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	It is proposed to store the quantity with single layer of 5 mts height, 100 mts length & 20mts width with 30° slope. On maturity of dump capacity, it will be stabilized by plantation. 31751 MT Mineral reject as Over burden
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	Dry waste:	Over burden waste - 31751 MT
	Wet waste:	Used Oil 1 KL/Month
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	50 Kg/Day
	Others if any:	Not applicable
Mode of Disposal of waste:	Dry waste:	Over burden will be dumped in the mining lease area
	Wet waste:	CPCB/SPCB Authorized processor and recycler
	Hazardous waste:	CPCB/SPCB Authorized processor and recycler
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	CHWTSDF
	Others if any:	NA
Area requirement:	Location(s):	M.L area
	Area for the storage of waste & other material:	M.L area
	Area for machinery:	STP plant already installed and E.T.P. will be installed as per based on requirement
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs 43 Lakhs
	O & M cost:	Rs 3 Lakhs

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29.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		NA			
Capacity of the ETP:		NA			
Amount of treated effluent recycled :		NA			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		NA			
Disposal of the ETP sludge		NA			



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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/Spent Oil	5.1	-	1 KLD	2 KLD	3 KLD	CPCB /SPCB authorized processor and recycler
2	Chemical sludge from waste water treatment	34.3	-	50 Kg/D	50 Kg/D	100 Kg/D	CHWTSDF
31.Stacks emission Details							
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases	
1	1500 KVA	HSD and as per requirement	1	30	0.398	Maintaining CPCB Norms	
32.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	HSD	As per requirement	As per requirement	As per requirement			
33.Source of Fuel		Provide by Authorized person					
34.Mode of Transportation of fuel to site		Trucks					
35.Energy							
Power requirement:	Source of power supply :	M.S.E.B.C. 11 KV Line is provided up to village Khapa and near manganese deposit of gumgaon area.					
	During Construction Phase: (Demand Load)	As per requirement					
	DG set as Power back-up during construction phase	As per requirement					
	During Operation phase (Connected load):	As per requirement					
	During Operation phase (Demand load):	As per requirement					
	Transformer:	As per requirement					
	DG set as Power back-up during operation phase:	As per requirement					
	Fuel used:	HSD					
Details of high tension line passing through the plot if any:	As per requirement						
Energy saving by non-conventional method:							
A Grid connected 5MW Solar Power Project at Munsar Mine expected to be commissioned in Nov.18. Electricity generated from this Plant will be used as captive at Gumgaon, Kandri and Chikla.							
36.Detail calculations & % of saving:							

Serial Number	Energy Conservation Measures	Saving %
1	Reduction in running hours of compressor	0.74 Lakh kWh
2	Reduction in consumption by replacing C & S plant BC2 conventional light with 15 W LED	0.07 Lakh kWh
3	Reduction of consumption by introducing transparent roof sheet at substation /compressor ZZ house /generator house building	0.03 Lakh kWh
4	Saving of KWH due to introduction of natural ventilator at roof	0.16 Lakh kWh

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Mining ,Loading and unloading ,transportation of Minerals	Dust suppression and Plantation	All Environmental mitigation measures will be done as per MPCB.

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs 50 lakhs
	O & M cost:	Rs 20 lakhs

38.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	NA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Pollution Control	Garland Drain, Water sprinkler, retaining walls)	25	10
2	Pollution Monitoring	Air, soil, Water, Noise	10	5
3	Occupational Health	Medical check	10	5
4	Green Belt	Plantation	25	10

39.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Own Magazinefor storage of Explosive	Explosive Licence No. E/HQ/MH/22/483/ (E-33527	Within Lease	4500 KG	4500 KG	3000 KG	1. SBL Energy, Nagpur 2. Premiere Exp Ltd., Nagpur	Manual transport from Magazine to mine by explosive container

40.Any Other Information

No Information Available

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category B-1, Project activity -1(a)
	Court cases pending if any	No
	Other Relevant Informations	<p>I. The proposal of Expansion of Gumgaon Manganese mining project belonging to the MOIL Limited is for mining of Manganese mineral with enhancement of production capacity from 90,000 MTPA to 2,03,200 MTPA in the mining lease area of 85.896 ha.</p> <p>II. The project was earlier presented to MoEF for grant of Environmental Clearance at project involves both expansions in ML area and production capacity of existing Gumgaon Underground Mine. The Environmental Clearance was granted vide J-11015/77/2003-IA.II (M) dated 6/12/2004.</p> <p>III. The Gumgaon Mine comprises of three leases- Lease I- 48.5960 Ha, Lease II- 1.33 Ha and Lease III- 35.97 Ha. in Saoner Tehsil, Nagpur District, Maharashtra. Lease was granted in favor of MOIL for 20 Year and hence expiry of lease is 30/06/2022 for Lease-I, 23/02/2014 for Lease-II and 29/06/2020 for Lease-III.</p> <p>IV. Composite scheme of mining & PMCP for all the leases was approved vide letter No. NGP/MN/MPLN-258/NGP. Dated 09/07/2013.</p> <p>V. The Consent is granted for a period upto 30/06/2020 - consent order no. BO/JD(APC)EIC No.:12710/13474-15/R/CC-4324 on dated 29/03/2016.</p> <p>VI. The proposed Manganese mining area of 85.896 Hectare (ha) in Gumgaon, Khapa, Rajna and Tegai Village, Saoner Tehsil, Nagpur District, Maharashtra the Lease deed for Mining Lease has been issued to MOIL over an area of 85.896 ha. in village Gumgaon, khapa, Rajna and Tegai, Tah.: Saoner of Dist: Nagpur of Maharashtra State, by Government of Maharashtra vide letter number MMN-1005/C.R.777/Ind-9, dated 11.05.2007 Corrigendum dated 15/04/2008 (For Lease I - 48.596 Ha), MLV-N-984/2015/3023 dated 21/10/2015 (For Lease II- 1.33 Ha), MMN 2280/127045(2785)IND.9 dated 20/06/1986 corrigendum dated 23/01/1987 & extended up to 29/06/2050 vide letter no. MLV-N/256/2017/1171 dated 15/05/2017 (For Lease III: 35.97 Ha).</p> <p>VII. Scheme of Mining over an area of 85.896 ha of ML in favor of MOIL in Village Gumgaon, Khapa, Rajna and Tegai Tah: Saoner, Distt. Nagpur, Maharashtra State. Approved of Scheme in respect of Manganese ore deposit of Moil Ltd. is vide letter no. NGP/MN/MPLN-258/NGP-2017 on dated 20.06.2017 Lease-I, NGP/MN/MPLN-361/NGP-2017 on dated 07.06.2017 Lease-II & NGP/MN6/MPLN-4013/NGP-2017 on dated 12.07.2017 Lease-III, over an area of 85.896 ha. situated in village- Gumgaon, Khapa, Rajna & Tegai, Tehsil Saoner, District Nagpur of Maharashtra State.</p>
	Have you previously submitted Application online on MOEF Website.	Yes

	Date of online submission	16-01-2018
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3. The proposal has been considered by SEIAA in its 185th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

Specific Conditions:

I	PP to carry out drilling and blasting as per prevailing rules and after obtaining requisite permissions from the competent Authority.
II	PP to ensure wet drilling or drilling with dust extractor.
III	PP to provide all necessary personal protective equipments to the employees so as to reduce incidents/accident.
IV	PP to monitor the levels of the Manganese in the mine water /run off water and OB dump run off and ensure proper treatment before discharge to meet prescribed standards.
V	PP to provide maximum employment to the local people.
VI	PP to explore possibility to use crush sand, bottom ash, manufactured sand for back filling instead of the river sand.
VII	PP to implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
VIII	PP to ensure additional air quality monitoring station around the periphery of village.
IX	Blasting, crushing and transportation of crushed material should be carried out under covered conditions to avoid any kind of dust pollution.
X	PP shall employ dust suppression measures by use of water sprinklers, foggers etc.
XI	The PP shall undertake 2 rows of tree plantation along the lease boundary. Dust absorbing trees shall be planted.

General Conditions:

I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
IV	Proper Housekeeping programmers shall be implemented.
V	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.
IX	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
XI	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in
XXI	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
XXII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectorai parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
XXV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

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4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


Shri. Anil Diggikar (Member Secretary SEIAA)

Copy to:

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER NAGPUR
10. REGIONAL OFFICE MPCB NAGPUR
11. REGIONAL OFFICE MIDC NAGPUR
12. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
13. COLLECTOR OFFICE BHANDARA
14. COLLECTOR OFFICE NAGPUR
15. COLLECTOR OFFICE WARDHA
16. COLLECTOR OFFICE GADCHIROLI