



## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date: October 16, 2019

To,  
M/s Grace Industries Limited.  
at A - 30, A - 24

**Subject:** Environment Clearance for Installation of Induction Furnace to manufacture ingots, Billets etc.-18000 MT/month Rolling Mill for hot rolled Long Products TMT 18000 MT/month and Ferro Alloys 6000 MT/month (SAF)

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 164th 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 177th meetings.


2. It is noted that the proposal is considered by SEAC-I under screening category 3(a) as per EIA Notification 2006.

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

1.Name of Project	Installation of Induction Furnace to manufacture ingots, Billets etc.-18000 MT/month Rolling Mill for hot rolled Long Products TMT 18000 MT/month and Ferro Alloys 6000 MT/month (SAF)
2.Type of institution	Private
3.Name of Project Proponent	M/s Grace Industries Limited.
4.Name of Consultant	Pollution & Ecology Control Services
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	A - 30, A - 24
9.Taluka	Chandrapur
10.Village	Tadali
Correspondence Name:	Mr. Ajay Agrawal
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	9, Imambada Road
Locality:	NA
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Tadali Growth Centre MIDC
12.IOD/IOA/Concession/Plan Approval Number	The land has been leased out by MIDC to M/s Grace Industries IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 55638.88
13.Note on the initiated work (If applicable)	Not Applicable, work will be initiated after receipt of Environmental Clearance.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	A 30 - 167207 sq mt, A 24 - 83195 sq mt, Total - 250402 sq mt
16.Deductions	0.00

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SEIAA)

17.Net Plot area	250402 sq mt
18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): Not applicable
	Non FSI area (sq. m.): Not applicable
	Total BUA area (sq. m.): 55638.88
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: 01-01-1900
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	887500000



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## 22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Ingots, Billets	None	18000	18000
2	Long Products and TMT material	None	18000	18000
3	Ferro Alloys	None	6000	6000

## 23. Total Water Requirement

<b>Dry season:</b>	Source of water	MIDC
	Fresh water (CMD):	219
	Recycled water - Flushing (CMD):	3
	Recycled water - Gardening (CMD):	8
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	260
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
<b>Wet season:</b>	Source of water	MIDC
	Fresh water (CMD):	219
	Recycled water - Flushing (CMD):	3
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	252
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
Excess treated water	Not applicable	
<b>Details of Swimming pool (If any)</b>	Not applicable	

## 24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	-	14	14	-	3	3	-	11	11
Industrial Process	-	98	98	-	68	68	-	30	30
Cooling tower & thermopack	-	140	140	-	140	140	-	0	0
Gardening	-	8	8	-	8	8	-	0	0

<b>25.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	Pre monsoon 10-15 m bgl. and post monsoon 5-10 m.
	<b>Size and no of RWH tank(s) and Quantity:</b>	The rain water collected will be used for recharging of ground water level.
	<b>Location of the RWH tank(s):</b>	Not Applicable
	<b>Quantity of recharge pits:</b>	7 nos.
	<b>Size of recharge pits :</b>	2 m X 3 m X 3 m Depth
	<b>Budgetary allocation (Capital cost) :</b>	Rs.1,50,000/-
	<b>Budgetary allocation (O &amp; M cost) :</b>	Rs. 10000/- per annum.
	<b>Details of UGT tanks if any :</b>	Under ground water tank will be provided for fire fighting as per norms

<b>26.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Storm water drain will be constructed around the plant area
	<b>Quantity of storm water:</b>	171127 Cum.
	<b>Size of SWD:</b>	900 mm - 900 mm.

<b>27.Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	11 KLD
	<b>STP technology:</b>	MBBR Technology
	<b>Capacity of STP (CMD):</b>	1 No. and 15 KLD capacity
	<b>Location &amp; area of the STP:</b>	Within the Plot Area
	<b>Budgetary allocation (Capital cost):</b>	Rs. 35 Lacs
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 2.0 Lacs/ Year

## 28.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Construction waste debris
	<b>Disposal of the construction waste debris:</b>	Will be utilized in making of internal road
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Slag , Tail Cuttings and Fly Ash
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	Used Oil
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Yes
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	A slag crusher will be installed to crush slag. Iron particles will be separated by using Magnetic Separator. These iron particles will be reused in Induction Furnace. The slag generated from Induction Furnace will be non-hazardous and non-toxic in nature. Initially this will be used for leveling of Plot. It will be used for hardening of working area & construction of internal roads. In future possibilities will be explored to use slag for construction of internal village roads. Tail Cuttings w
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	Used oil from Transformer and machineries it will be used for secondary purpose and will be disposed through authorised recycler and vendor.
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Used as Manure
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Within the Plant
	<b>Area for the storage of waste &amp; other material:</b>	About 2042 sq. m. will be reserved for storing slag, tail cutting and fly ash.
	<b>Area for machinery:</b>	NA
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs.20.00 Lacs including slag crusher
	<b>O &amp; M cost:</b>	Rs. 3 lacs/annum

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## 29. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	NA	8.0	7.5	6 - 9
2	TSS	mg/l	180	40	100
Amount of effluent generation (CMD):		30 KLD			
Capacity of the ETP:		30 KLD			
Amount of treated effluent recycled :		30 KLD			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Settling tank will be constructed for treatment of waste water			
Disposal of the ETP sludge		Not Applicable			



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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used Oil	5.1	NA	NA	100 liter/m	100 liter/m	Secondary use and sale to recyclers
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	Induction Furnace	Electricity	1	30	1.6	50 degree Centigrade	
2	Ferro Alloys Unit	Electricity	1	30	0.5	100 degree Centigrade	
32.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	Indonesian Coal	--	1000 TPM	1000 TPM			
2	Electricity	--	35 MW	35 MW			
Source of Fuel		Electricity from CPP & MSEDCL and Imported Coal from Indonesia. Ash content is max. 10%.					
Mode of Transportation of fuel to site		Coal by tarpaulin covered trucks from Railway siding					
33.Energy							
<b>Power requirement:</b>	Source of power supply :	CPP & MSEDCL					
	During Construction Phase: (Demand Load)	150 KW					
	DG set as Power back-up during construction phase	NA					
	During Operation phase (Connected load):	40 MW					
	During Operation phase (Demand load):	35 MW					
	Transformer:	Yes					
	DG set as Power back-up during operation phase:	NA					
	Fuel used:	Electricity & Coal, in entire process electricity is main fuel					
	Details of high tension line passing through the plot if any:	NA					
34.Energy saving by non-conventional method:							
All internal street lights will be solar powered							
36.Detail calculations & % of saving:							
Serial Number	Energy Conservation Measures				Saving %		
1	NA				NA		
37.Details of pollution control Systems							
Source	Existing pollution control system			Proposed to be installed			
Induction Furnace and Rolling mill	Not applicable			Bag filters, Venturi Scrubbers			

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	NA					
	<b>O &amp; M cost:</b>	NA					
<b>38.Environmental Management plan Budgetary Allocation</b>							
<b>a) Construction phase (with Break-up):</b>							
<b>Serial Number</b>	<b>Attributes</b>	<b>Parameter</b>	<b>Total Cost per annum (Rs. In Lacs)</b>				
1	Air Pollution Control	Particulate Matter	Rs. 1.00 Lacs				
<b>b) Operation Phase (with Break-up):</b>							
<b>Serial Number</b>	<b>Component</b>	<b>Description</b>	<b>Capital cost Rs. In Lacs</b>	<b>Operational and Maintenance cost (Rs. in Lacs/yr)</b>			
1	Air Pollution Control	Bag filters, Venturi Scrubbers	Rs. 100 Lac	Rs. 10 Lac			
2	Water Pollution Control	STP & ETP	Rs. 35 Lac and Rs. 20 Lac	Rs. 2 lac and Rs. 1 Lac			
3	Solid Waste Management	Handling and Disposing	Rs. 20 lac	Rs. 3 lac			
4	Green Belt	Plantation	Rs. 5 Lac	Rs. 0.5 Lac			
5	Environmental Monitoring	Air quality , Water and wastewater quality; Noise levels; Soil quality	Rs.50 Lacs for CAAQMS and online stack monitoring .	Rs. 5 Lac			
<b>39.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)</b>							
<b>Description</b>	<b>Status</b>	<b>Location</b>	<b>Storage Capacity in MT</b>	<b>Maximum Quantity of Storage at any point of time in MT</b>	<b>Consumption / Month in MT</b>	<b>Source of Supply</b>	<b>Means of transportation</b>
NA	NA	NA	NA	NA	NA	NA	NA
<b>40.Any Other Information</b>							
No Information Available							

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	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Distance from existing boundary of Tadoba Wildlife Sanctuary 23.5 km. Distance from proposed boundary of Tadoba Wildlife Sanctuary as per notification dated 13 July 2018 is 13.5 km.
	<b>Category as per schedule of EIA Notification sheet</b>	3(a)
	<b>Court cases pending if any</b>	No
	<b>Other Relevant Informations</b>	Public Hearing was conducted on 7th December 2018.
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

**3. The proposal has been considered by SEIAA in its 177th 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:**


<b>I</b>	PP to upload details of disposal /reuse of waste slags along with its quantities.
<b>II</b>	PP to install online air monitoring system.
<b>III</b>	PP to upload documents related to the proposed mitigation measures to reduce environmental impacts identified in the life cycle analysis.
<b>IV</b>	PP to prepare and implement CER plan in consultation with the District Authorities. PP to explore possibility to provide sewage treatment plant to the village Tadali or any other village from their CER funds.
<b>V</b>	PP to include water and carbon foot print monitoring in their Environmental Monitoring Program.
<b>VI</b>	PP to submit CER plan to Municipal Commissioner/District Collector and submit the acknowledgement to Member Secretary, SEIAA.
<b>VII</b>	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF & CC dated 9th August, 2018.

**General Conditions:**

<b>I</b>	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
<b>II</b>	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
<b>III</b>	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
<b>IV</b>	Proper Housekeeping programmers shall be implemented.
<b>V</b>	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.
<b>VI</b>	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
<b>VII</b>	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
<b>VIII</b>	Arrangement shall be made that effluent and storm water does not get mixed.
<b>IX</b>	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.
<b>X</b>	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.
<b>XI</b>	The overall noise levels in and around the plant are 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.
<b>XII</b>	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.
<b>XIII</b>	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.
<b>XIV</b>	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

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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 <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>
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 <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral 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. REGIONAL OFFICE MPCB CHANDRAPUR
10. REGIONAL OFFICE MIDC CHANDRAPUR
11. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
12. COLLECTOR OFFICE CHANDRAPUR

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