

Government of Maharashtra

SEAC-2014/CR-159/ TC-2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annex,
Mumbai- 400 032.
Dated: 12th December, 2014

To,
M/s. Kalyani Carpenter Special Steels Ltd.
Admn. Bldg., 2nd Floor,
Mundhwa, Pune-411 036

Subject: Environment clearance for proposed augmentation of production of 54000 TPA at Pune Cantonment s.no. 72-76, Mundhwa Pune by M/s. Kalyani Carpenter Special Steels Ltd

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 90th meeting and decided to 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 77th meeting.

2. It is noted that the proposal is for grant of Environment Clearance for proposed augmentation of production of 54000 TPA at Pune Cantonment s.no. 72-76, Mundhwa Pune. SEAC-I considered the project under screening category 3(a) B1 of EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of project	Kalyani Carpenter Special Steel Ltd. Increase in production from 1,50,000 to 2,04,000 Mt/Annum														
Project Proponent	M/s. Kalyani Carpenter Special Steel Ltd.														
New project/expansion in existing	Expansion with Modernization.														
If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance No. ENV (NOC) 1190 /648/CR-133/D-I. obtained for existing unit.														
Activity schedule in the EIA Notification	3(a) B1														
Area Details	<ul style="list-style-type: none">• Total plot area : 1,01,208 m²• Built up area : 47,526 m²														
Name of the Notified Industrial Area/ MIDC area	Industrial Zone in Pune District, Maharashtra														
Estimated capital cost of the project (Including cost for land, building, plant and machinery separately)	<table border="1" style="width: 100%;"><thead><tr><th>Sr.</th><th>Details</th><th>Cost (in Crore)</th></tr></thead><tbody><tr><td>1.</td><td>CNC Machine</td><td>1.1</td></tr><tr><td>2.</td><td>Rolls</td><td>1.05</td></tr><tr><td>3.</td><td>D.G set</td><td>0.25</td></tr></tbody></table>			Sr.	Details	Cost (in Crore)	1.	CNC Machine	1.1	2.	Rolls	1.05	3.	D.G set	0.25
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	1.	CNC Machine	1.1												
	2.	Rolls	1.05												
3.	D.G set	0.25													

	4.	Compressor	0.25	
	5.	RWH	0.35	
		Total	3	
Location details of the project:				
Latitude		18°31'57.88" N		
Longitude		73°56'31.28" E		
Location		Industrial Zone in Pune District, Maharashtra		
Elevation above Mean Sea Level		560 m		
Raw materials (including process chemicals, catalysts & additives)				
List of raw materials to be used	Physical and chemical nature of raw material	Quantity (MTA) full production capacity	Source of materials	Mean of transportation (source to storage site) with justification
Ferrosilicon lumps	Minerals & metal	1,710	Local market & imports	By truck
Ferromanganese	Minerals & metal	2,438	Domestic market	By truck
Silicomanganese	Minerals & metal	876	Local market & imports	By truck
Albars/ Lumps/ Shots	Minerals & metal	1,001	Local market & imports	By truck
Steel Scrap	Minerals & metal	2,50,543	Local market & imports	By truck
Graphite Electrode	Minerals & metal	938	Local market & imports	By truck
Lime	Minerals & metal	7,565	Local market & imports	By truck
Dolomite	Minerals & metal	11,082	Local market &	By truck

				imports											
	Coke	Minerals & metal	1,562	Local market & imports	By truck										
Production Details	Name of Products, Byproducts and Intermediate Products	Existing (MTA)	Additional activity (New/modernization/expansion)	Total (MTA)											
	A. Main Products: Ingots, blooms, Rolled Products	1,50,000	54,000	2,04,000											
Rain water Harvesting (RWH)	<ul style="list-style-type: none"> Level of the ground water table: 4 m Size, nos. of recharge pits and quantity: 4 m x 4 m x 5 m x 3 no. Budgetary allocation (Capital Cost and Q & M cost): 0.35 Crores 														
Total Water Requirement	<p>Total water requirement:</p> <ul style="list-style-type: none"> Fresh water: 800 m³/day Source: 700 m³/day from Mutha River Canal 100 m³/day from Municipal supply Recycled water: 76 m³/day <p>Use of the water:</p> <ul style="list-style-type: none"> Cooling water: 700 m³/day Domestic water: 100 m³/day Green belt: 76 m³/day 														
Storm water drainage	<ul style="list-style-type: none"> Natural water drainage pattern: East to West by Storm Water Drain Quantity of storm water: 2.8 m³/sec Size of Storm Water Drain: <ol style="list-style-type: none"> 600 mm x 500 mm (South Side - East to West) 450 mm dia boiler Room to Canteen (East -west) 450 mm dia Plant Office to Gate 450 mm dia West side - (South to North) 														
Sewage generation and treatment	<ul style="list-style-type: none"> Amount of sewage generation: 80 m³/day Proposed treatment for the sewage: Not applicable Capacity of the Sewage Treatment Plant: 130 m³/day 														
Effluent Characteristics	<table border="1"> <thead> <tr> <th>Sr.</th> <th>Parameters</th> <th>Inlet effluent characteristic</th> <th>Outlet effluent characteristic</th> <th>Effluent discharge standards</th> </tr> </thead> <tbody> <tr> <td></td> <td>Not applicable</td> <td>Not applicable</td> <td>Not applicable</td> <td>Not applicable</td> </tr> </tbody> </table>					Sr.	Parameters	Inlet effluent characteristic	Outlet effluent characteristic	Effluent discharge standards		Not applicable	Not applicable	Not applicable	Not applicable
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	Not applicable	Not applicable	Not applicable	Not applicable											
Solid Waste Management															

Sr.	Source	Quantity (MTA))	Form	Compositio n
1.	Raw water treatment plan	Not applicable	Not applicable	Not applicable
2.	ETP	Not applicable	Not applicable	Not applicable
3.	Process:			
	Slag Ball	34,179	Solid	SiO ₂ – 13.28 % CaO – 25.72% FeO – 31.18 % MgO – 6.78 %
	Slag Overflow	4,056	Solid	SiO ₂ – 13.28 % CaO – 25.72% FeO – 31.18 % MgO – 6.78 %
	Debris	420	Solid	
	Bricks	156	Solid	MgO – 76.38 % SiO ₂ - 3.19 % C - 15.06 %
	Metal Waste	9,828	Solid	Not applicable
	Dust Grinding	2,262	Solid	Not applicable
	Miscellaneous packing materials , wood , paper ,cardboard , glass	312	Solid	Not applicable
	Process dust	3,120	Solid	Fe ₂ O ₃ - 65 .88 % Fe (M) 3.25 % CaO – 7.56 % Si O ₂ – 3.21 %

Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO etc.)	Sr.	Pollutant	Source of Emission	Emission rate	
	1.	SPM	Process /Boiler /DG Set/Furnace/ Soaking pit	70 mg/nm ³	
	2.	SO ₂	Process /Boiler /DG Set/Furnace/ Soaking pit	4.2 MT/day	
	3.	NO _x	Process /Boiler /DG Set/Furnace/ Soaking pit r/ D.G. Set	22.46 kg/NM ³	

Stacks emission Details	Plant section & units	Stack no.	Height from ground level (m)	Internal diameter (top)(m)	Emis ion rate	Tem p. of exha ust gases
	Boiler	No.1	30.5	0.9	PM - 71.3 mg/Nm ³	188 ⁰ C
	Boiler	No.2	30.5	0.9	SO ₂ - 39.9 kg/day	188 ⁰ C
	Boiler	No.3	30.5	0.9	PM - 66.1 mg/Nm ³	188 ⁰ C
	Anneali ng furnace	No.1	30	0.6	SO ₂ - 35.2 kg/day	220 ⁰ C
	Anneali ng furnace	No.2	30	0.6	PM - 43.4 mg/Nm ³	220 ⁰ C
	Walking beam furnace	No.3	49	1.05	SO ₂ - 72.4 kg/day	218 ⁰ C
	Soaking pit	No.1	39	1.05	PM - 70.5 mg/NM ³	192 ⁰ C
					SO ₂ - 26 kg/	

					day	
D.G Set	No.1	Height of the roof + 5 m	0.04	—		
D.G Set	No.2	Height of the roof + 5 m	0.04	PM - 39.7 mg/ NM ³ SO ₂ - 4.1 kg/ day	197 ⁰ C	
D.G Set	No.3	Height of the roof + 3.5 m	0.02	—	220 ⁰ C	
D.G Set	No.4	Height of the roof + 3.5 m	0.04	—	220 ⁰ C	
D.G Set	No.5	Height of the roof + 5 m	0.04	—	218 ⁰ C	
Electric Arc Furnace	No.1	Direct & Roof Top Suction is provided to bag house	—	—	—	
Ladle Furnace	No.1	Direct suction Provided & connecte d to Bag house	—	—	—	
Ladle Furnace	No.2	Direct suction Provided & connecte d to Bag house	—	—	—	
Electro Slag Re-melting	No.1	10	0.15	PM - 51.2 mg/ NM ³ SO ₂ - 5.3 Kg/ day	95 ⁰ C	
Shot	No.1	13	0.3			

	Blasting M/c.																																																									
	Shot Blasting M/c.	No.2	18	0.3	—	—																																																				
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	Benzo (a) pyrene	<1.0	UDL	Within CPCB Limits		
*Under detectable limit						
Details of Fuel to be used:						
Sr	Fuel	Daily consumption (TPD)		Calorific value (kcal/kg)	% Ash	% Sulphur
		Existing	Additional			
1.	Furnace oil	40	-20	9598	0.3% Max	2.9 %
2.	HSD	1	0	10,000	0.1 %	Nil
3.	Bio diesel	0	0	9,500	0.1 %	Nil
4.	CBFS	2	0	-	-	-
5.	LPG	2	0	10950	-	
6.	Producer gas	0	7000 nm ³ /Hr	1300 to 1500	25%	0.5 max
Energy						
Power Supply :						
Sr.	Source	Category	Quantity	Capacity		
1.	MSEDC L	Existing	As per connected load list	54.248 MW		
			Sanctioned demand	36.8 MVA		
		Additional	As per connected load list	0		
			Sanctioned demand	0		
		Total	As per connected load list	54.248 MW		
			Sanctioned demand	36.8 MVA		
2.	DG	Existing	4	1,055 kVA		
		Additional	1	180 kVA		
		Total	5	1,235 kVA		
3.	Boiler	Existing	3	22 MT/hr		
		Additional	0	0		
		Total	3	22 T/hr		
DG sets: Number and capacity DG sets to be used: 5 no. of 1,235 kVA total capacity						

	<p>Details of the non-conventional renewable energy proposed to be used:</p> <ul style="list-style-type: none"> ➤ Use of energy efficient, BEE labeled electrical fixtures, solar powered lighting in external common area. Use of T5 tubes having 2.5 to 3 times life over conventional tubes and hence rate of disposal of tubes will be reduced drastically. ➤ Energy efficient fluorescent tube lights & Light Emitting Diode (LED) lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. of fixtures. <p>Solar Electrical Power + LED lighting is complimentary in Residential as in day time, it is used effectively in night time in Common areas like staircase, area lighting</p>			
Green Belt Development	<ul style="list-style-type: none"> • Green belt area: 18000 m² 			
Details of pollution control Systems:	Sr. No.	Existing pollution control system	Additional (to be installed)	
	1	Air Dust Collection system for Electric Arc Furnace / Laddle Furnace	Nil	
	2	Water STP provided	Nil	
	3	Noise Acoustic enclosures provided to D G Sets	Nil	
	4	Solid Waste Sent to Approved Reprocessor & MEPL	Nil	
Environmental Management plan Budgetary Allocation	Sr.	Details	Recurring Cost in Lakh per annum	Capital Cost in Lakh
	1.	Air Pollution Control	393.1	Nil
	2.	Water Pollution Control	9.79	Nil
	3.	Noise Pollution Control	1.85	Nil
	4.	Environment Monitoring and Management	4.94	Nil
	5.	Reclamation borrow/mined area (If applicable)	0	0
	6.	Occupational Health	29.85	Nil
	7.	Green Belt	4.2	Nil
	8.	Solid waste	99.18	Nil

		management		
	9.	Others	0	0
	10	Total	542.91	Nil
EIA submitted (<i>If yes then submit the salient features</i>)	<ul style="list-style-type: none"> • Period of data collected: 3 months (March 2014 to May 2014) <p>Details of the primary data collection :</p> <ul style="list-style-type: none"> • Meteorology • Ambient air quality • Noise level • Water quality • Soil quality • Details of secondary data collection: <p>Average wind speed</p> <ul style="list-style-type: none"> • Predominant wind directions • Temperature • Relative Humidity • Rainfall • Ecology • Socio-economic and Demography • Land use pattern 			

Storage of Chemicals (Inflammable/ Explosive/hazardous/Toxic substances)

Sr.	Name	Capacity (MTA)	Consumption (in MTA)	Mode of disposal
1.	Used/spent oil	35	35	Sold to authorized re-processor

3. The proposal has been considered by SEIAA in its 77th 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 :


- (i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (iii) Regular monitoring of the air quality, including SPM & SO₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (iv) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
- (v) Proper Housekeeping programmes shall be implemented.
- (vi) 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.
- (vii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)

- (viii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (ix) Arrangement shall be made that effluent and storm water does not get mixed.
- (x) 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.
- (xi) Leq of 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.
- (xii) 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 confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (xiii) 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.
- (xiv) 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.
- (xv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xvii) 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.
- (xviii) The company shall undertake following Waste Minimization Measures :
 - Metering of quantities of active ingredients to minimize waste.
 - Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
 - Maximizing Recoveries.
 - Use of automated material transfer system to minimize spillage.
- (xix) 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.
- (xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxi) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xxii) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxiii) 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
- (xxiv) 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>

- (xxv) 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.
 - (xxvi) 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.
 - (xxvii) 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, SO₂, NO_x (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.
 - (xxviii) 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.
 - (xxix) 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.
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. The Environment department reserves the right 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.
 6. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
 7. 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.
 8. 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.

9. Any appeal against this environmental 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.
10. This Environment Clearance is issued for proposed augmentation of production of 54000 TPA at Pune Cantonment s.no. 72-76, Mundhwa Pune by M/s. Kalyani Carpenter Special Steels Ltd.


(Medha Gadgil)
Additional Chief Secretary,
Environment department &
MS, SEIAA

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014. .
3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Pune.
7. Collector, Pune
8. Commissioner, Municipal Corporation, Pune
9. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
10. Select file (TC-3)

(EC uploaded on 16/12/19)