

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Pranisampad Bhavan, Block 'LB'-2, 5th Floor, Sector – III,

Salt Lake, Kolkata – 700 106

Telefax No. 033 2335 5246

Website : www.environmentwb.gov.in

No. 3311 / EN/T-II-1/016/2018

Date : 03 / 10 /2018

To
M/s. Orissa Metaliks Pvt. Ltd.
1, Grastin Place
Orbit House, 3rd Floor
Room No. 3B, Kolkata – 700 001

SUB. : Environmental Clearance for the proposed expansion and change in product mix & configuration of plant for Induction Furnace 15 x 20 T (0.9 MTPA) with matching LRF & CCM, Rolling Mill 0.84 MTPA (Hot Rolling Mill-0.65 MTPA + Cold Rolling Mill-0.19 MTPA) with 45 MW Coal Dolochar Mix based Captive Power Plant at Mouza - Mathurakismat (J.L. No.114) & Amba (J.L. No.115), Village Gokulpur, P.O.-Shyamraipur, P.S.-Kharagpur, Dist. Paschim Medinipur, West Bengal by M/s. Orissa Metaliks Private Limited

Sir,

This has a reference to your application dated 03/04/2018 and subsequent communications for environmental clearance for the proposed expansion and change in product mix & configuration of plant for Induction Furnace 15 x 20 T (0.9 MTPA) with matching LRF & CCM, Rolling Mill 0.84 MTPA (Hot Rolling Mill-0.65 MTPA + Cold Rolling Mill-0.19 MTPA) with 45 MW Coal Dolochar Mix based Captive Power Plant at Mouja - Mathurakismat (J.L. No.114) & Amba (J.L. No.115), Village Gokulpur, P.O.-Shyamraipur, P.S.-Kharagpur, Dist. Paschim Medinipur, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. It was noted that the project had previously received environmental clearance vide memo no. 2707/EN/T-II-1/074/2015 dated 07/12/2016 for installation of induction furnace 10x20T, 0.55 MTPA rolling mill along with captive power plant 70 MW (25 MW coal based and 45 MW dolochar-coal mix based).The proposed project is an expansion project of the plant which will now consist of - Induction Furnace 15 x 20 T (0.9 MTPA) with matching LRF & CCM, Rolling Mill 0.84 MTPA (Hot Rolling Mill-0.65 MTPA + Cold Rolling Mill-0.19 MTPA) with 45 MW Coal Dolochar Mix based Captive Power Plant.

It is noted that the salient features of the project for which Environmental clearance has been considered are given below:

PROJECT SUMMARY	
Existing Project as per EC	Induction Furnace 10 x 20 T (0.6 MTPA), Rolling Mill 0.55 MTPA with 70 MW CPP (45 MW Coal Dolochar Mix and 25 MW coal based)
Project after proposed expansion and change in product mix & configuration of plant	Induction Furnace 15 x 20 T (0.9 MTPA) with matching LRF & CCM, Rolling Mill 0.84 MTPA (Hot Rolling Mill-0.65 MTPA + Cold Rolling Mill-0.19 MTPA) with 45 MW Coal Dolochar Mix based Captive Power Plant.
Project Location	Mathurakismat (J.L. No.114) & Mouja-Amba (II. No 115), Village Gokulpur, P.O.-Shyamraipur, P.S.-Kharagpur, Dist. Paschim Medinipur, West Bengal. Latitude : 22°22'36.51" N, Longitude : 87°17'05.15" E.

Conditions for Environmental Clearance for the proposed expansion and change in product mix & configuration of plant for Induction Furnace 15 x 20 T (0.9 MTPA) with matching LRF & CCM, Rolling Mill 0.84 MTPA (Hot Rolling Mill-0.65 MTPA + Cold Rolling Mill-0.19 MTPA) with 45 MW Coal Dolochar Mix based Captive Power Plant at Mouza - Mathurakismat (J.L. No.114) & Amba (J.L. No.115), Village Gokulpur, P.O.-Shyamraipur, P.S.-Kharagpur, Dist. Paschim Medinipur, West Bengal by M/s. Orissa Metaliks Private Limited

	Unit	Existing	Additional	Total
	Main Plant	Induction Furnace with matching LRF and CCM	10 X 20 T	5 X 20 T
Rolling Mill		0.55 MTPA	Hot Rolling Mill - 2,50,000 TPA	8,40,000 TPA
			Cold Rolling Mill - 40,000 TPA	
Captive Power Plant		45 MW – (1 x 200 TPH-Coal Dolochar Based)	-	45 MW (1 x 200 TPH-Coal Dolochar Based)
	25 MW-(1 x100 TPH Coal Based)	Will not be installed		
Products	Product	Existing Permission	Additional	Total
	MS Billet	6,00,000 TPA	3,00,000 TPA	9,00,000 TPA
	TMT Bars, Wire & Wire Rod	0.55 MTPA	TMT Bars, Wire & Wire Rod - 2,50,000 TPA	6,50,000 TPA
			Wire/Coil , Flat Sheet & Nails - 40,000 TPA	1,90,000 TPA
	Captive Power Plant (CFBC Based)	45 MW (Coal Dolochar Mix Based)	-	45 MW (Coal Dolochar Mix Based)
25 MW (Coal Based)		Will not be installed		
Total Raw Materials Requirement	Sponge Iron: 7, 91,000 TPA, Steel Scrap/Pig Iron: 2, 60,000 TPA, Lime Stone / Dolomite: 52,000 TPA, Ferro Alloy: 7,300 TPA, Coal: 1, 12,200 TPA & Dolochar: 2, 00,000 TPA.			
Land	Existing Plant Area is 30 acres. The expansion/modification will be within the existing plant premises only. Greenery will be developed in 11.22 acres (37%).			
Project Cost	Project cost 290 Crores as per earlier EC. Project Cost remains same as investment for proposed proposal as 25 MW CPP will not be installed and in its place 05 no. I.F. with Rolling Mill is proposed.			
Pollution Control Cost	No change in Project Cost because of proposed proposal. Capital Cost: Rs 20. 00 Crores ; Recurring Cost: Rs. Rs 2. 00 Crores / Annum remain same.			
Make-up Water Consumption	Make up water requirement is 2712 KLD . Source: Existing Borewell / Rainwater Harvesting Pond.			
Manpower	Total : 350 [Existing : 200 ; Additional : 150]			
Air Pollution Control Device Detail	Unit Name	Configuration	APC & Stack Detail	
	Induction Furnace with LRF & CCM	15 X 20 T	03 no Bag Filter with 03 no. stack of 35 meter	
	Hot rolling Mill with induction heater	6,50,000 TPA	-----	
	Cold Rolling Mill with Annealing Heater	1,90,000 TPA		

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	45 MW-CFBC based CPP (Dolochar Coal mix based)	1 X 200 TPH	ESP Stack.1 no., 75 m		
Solid Waste	Sl. No	Solid Waste	Revised Quantity Generation (TPA)	Solid Waste Management	
	1	Slag and Dust from Induction furnace	1,71,125	Slag to be used for Road Construction, Low land Filling & Paver Block Making after recovering metal from slag crushing unit. Solid waste (dust as collected in the De-dusting system) from SMS will be used in the pellet plant as pelletization mix.	
	2	Mill scale and scraps from Rolling Mill & CCM	34,800	Used as raw material in SMS Plant	
	3	Fly Ash	96,150	Used as a raw material for cement manufacturing/ brick manufacturing.	
		3	Bottom Ash	55,730	Used for land filling/ road construction purpose.
Power Requirement	157 MW [Existing: 108.0 MW; Additional: 49.0 MW]. Source : WBSEDCL & Captive Power Plant D.G. Set: 4 X 600 kVA [Existing: 2 X 600 kVA; Additional: 2 X 600 kVA].				
Applicability of EIA Notification 2006	Category B1 [3(a): Metallurgical Industry (Ferrous & Non Ferrous) & 1(d) Thermal Power Plant]				

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 (E) dt. 14th September, 2006 of Ministry of Environment & Forests, GOI, in supersession of earlier EC vide No.2707/EN/T-II-1/074/2015 dated 07.12.2016 subject to strict compliance of terms and conditions as mentioned below :-

A. SPECIFIC CONDITIONS :

- i. The gaseous emissions from various process units should conform to the load / mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.
- ii. Induction furnaces should be provided with fume extraction and dedicated pollution control systems consisting of Swiveling Hood, Spark Arrestor cum Cyclone separator, Bag Filter, ID Fan etc. and stack of height 30m from G.L. as proposed. Secondary fume extraction system with adequate side suction should be provided to prevent fugitive emission during charging. Adequate dust extraction system to be provided with re-heating furnace of rolling mills. Stack emission (PM) should not exceed 50 mg/Nm³. Stack emissions should be monitored at regular intervals and records should be maintained.
- iii. Dust collection from Bag filter should be done through pneumatic control system. Collected dust is to

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be sold for landfilling subject to the condition that it does not fall under the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.

- iv. High efficiency ESPs should be installed in CPP to ensure that particulate emission does not exceed 50 mg/Nm³. Adequate dust extraction system and water spray system in dust prone areas such as coal handling plant & ash handling plant/ points, transfer areas and other vulnerable areas shall be provided. Space for FGD is to be provided as submitted.
- v. Regular monitoring of the air quality shall be carried out in and around the plant and records shall be maintained.
- vi. Adequate measures to be adopted for control of fugitive emission. Regular water sprinkling should be done to control the fugitive emission. Bag filter of adequate capacity to be provided to the raw material handling section.
- vii. Water meter to be installed at every inlet point of fresh water uptake and also at circulation points and regular records to be maintained.
- viii. Groundwater should not be abstracted without obtaining permission from the competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005. Water requirement for the proposed expansion project should be met from DVC as per permission obtained.
- ix. Sponge iron and Pig iron should be used as major raw material in Induction Furnace (at least 70% of the total input). Use of galvanised iron scrap as raw material is not permitted.
- x. Covered storage yard for raw materials to be provided. Loading and unloading operations should not be carried out in open areas.
- xi. As proposed, the unit must develop storage facilities to harvest rain water of capacity 900 KL so as to use the stored water for plantation, firefighting, washing & cleaning etc. Recharging of ground water is not permitted.
- xii. Process effluent discharge is not permitted. Cooling water should be recycled.
- xiii. Solid wastes are generated in the form of scrap and slag. Scrap should be recycled in the proposed plant as proposed. Slag may be used for road construction and land filling. However, indiscriminate dumping is not permitted under any circumstances.
- xiv. Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) Leq (daytime) and 70 dB(A) Leq (nighttime) and its subsequent amendments.
- xv. At least 5000 nos. of recommended species to be planted in the green belt area of 10.22 acres. Indicative list of species is given at Annexure-I. Green belt comprising of three rows of trees with thick canopy should be developed all along the periphery of the plant.
- xvi. All internal roads should be concreted / pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper house keeping shall be maintained within the premises. Solar lighting should be used as far as practicable.
- xvii. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xviii. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
- xix. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.

2

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- xx. Trucks carrying coal and other raw material shall be covered with tarpaulin to prevent spreading of dust during transportation.
- xxi. Haulage road shall be sprinkled with water at regular intervals for which water tankers with sprinkler arrangement are deployed. Regular sweeping of roads shall be practiced with vacuum sweeping machine or water flushing to minimize dust.
- xxii. At least 5 MW of solar power to be generated and utilized to reduce coal consumption.
- xxiii. Rain water harvesting pond of area 1.389 acres to be created as proposed for surface storage of rain water
- xxiv. Rain water to be harvested at least to the extent of 20000 cum/annum and should be utilized in all plant requirement and limit ground water abstraction below 0.6 MGD.
- xxv. CSR schemes identified based on public hearing issues and need based assessment shall be implemented in consultation with District Administration starting from the development of project itself.

B. GENERAL CONDITIONS :

- i. The environmental clearance accorded shall be valid for a period of 7 years for the proposed project.
- ii. Prior Consent-to-Establish (NOC) for the proposed expansion project must be obtained from WBPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
- iii. The project proponent shall comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- iv. All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.
- v. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Environmental sanitation should be ensured for the workers.
- vi. The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA, West Bengal along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
- vii. No further expansion or modifications in the plant should be carried out without prior approval of the State Level Environment Impact Assessment Authority, West Bengal. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, West Bengal.
- viii. The West Bengal Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to the WBPCB regularly. A complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority, West Bengal and also to Regional Office of MoEF&CC, Bhubaneswar.
- ix. The State Level Environment Impact Assessment Authority, West Bengal reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.

2

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- x. The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the West Bengal Pollution Control Board and may also be seen at Website of the SEIAA, West Bengal (<http://environmentwb.gov.in>). This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.
- xi. The Project Authorities should inform the West Bengal Pollution Control Board as well as the SEIAA, West Bengal, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/project implementation.
- xii. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2009, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.
- xiii. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Mr. Bijayen Srivastava, Manager – Environment & Pollution
Address	1, Grastin Place, 3 rd Floor, Kolkata – 700 001
Telephone Number, Fax Number	033 22438518 Fax no. 033 2243 8517 7044070948 (M)
E mail	orissametalikspvtltd@gmail.com
Name of the Environmental Consultant	Kalyani Laboratories Private Limited

Yours faithfully,

(Niraj Singhal, IFS)
Chief Environment Officer &
Member Secretary, SEIAA

No. 3311 / EN/T-II-1/016/2018/1(4)

Date : 03 / 10 /2018

Copy forwarded to :-

1. Secretary, SEAC & M.S. WBPCB
2. Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
3. Chief Inspector of Factories, Factories Directorate, 1, K.S. Roy Road, Kolkata – 700 001.
4. The Member Convener, Monitoring Committee for Environmental Clearance.
5. Guard file / Record file.

Sd/-
Chief Environment Officer &
Member Secretary, SEIAA

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Annexure – I

LIST OF TREES PROPOSED FOR PLANTATION

Sl. No.	BOTANICAL NAME	COMMON NAME	QUANTITY
1.	<i>Peltophorum pterocarpum</i>	Radhachura	250
2.	<i>Butea monosperma</i>	Palash	250
3.	<i>Delonix regia</i>	Gulmohor	250
4.	<i>Cassia fistula</i>	Amaltas	500
5.	<i>Dalbergia sissoo</i>	Sissoo	250
6.	<i>Acacia nilotica</i>	Babla	500
7.	<i>Terminalia arjuna</i>	Arjun	150
8.	<i>Bauhinia variegata</i>	Raktakanchan	100
9.	<i>Acacia auriculiformis</i>	Sonajhuri	1000
10.	<i>Alstonia scholaris</i>	Chhatim	700
11.	<i>Polyalthia longifolia</i>	Devdaru	1000
12.	<i>Ficus religiosa</i>	Ashwatha	50
		Total	5000

2