सत्यमेव जयते

File No: EN/T-II-1/016/2018

Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), [state])

***

Date **25/07/2024**

To,

ORISSA METALIKS PRIVATE LIMITED
GRASTIN PLACE, ORBIT 3RD FLOOR ROOM NO . 3B, KOLKATA
orissametalikspvtltd@gmail.com

Ref: Application made for splitting of EC issued vide no. 3311/EN/T-II-1/016/2018 dated 03.10.2018.

Subject: Grant of EC after splitting of EC issued vide no. 3311/EN/T-II-1/016/2018 dated 03.10.2018 under the provisions of EIA notification 2006 and its amendments.

Sir/Madam,

This is in reference to your application for grant of splitting of Environmental Clearance (EC) under the provision of the EIA Notification 2006 and its amendment dated 21st April 2023- in respect of 'Splitting of Environment Clearance' - 10 x 20 T (0.6 MTPA) Induction Furnace with matching LRF & CCM and Cold Rolling Mill-0.19 MTPA as M/s Orissa Metaliks Private Limited and remaining 05 x 20T (0.3 MTPA) Induction Furnace with matching LRF & CCM, Hot Rolling Mill–0.65 MTPA and 45 MW Coal Dolochar Based Captive Power Plant as M/s Orissa Metallurgical Industry Private Limited at Village-Gokulpur, P.O-Shyamraipur, P.S-Kharagpur (L), Dist. Paschim Medinipur, West Bengal submitted to Ministry vide proposal number SIA/WB/IND1/459037/2024 dated 18/01/2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B1010WB5781833S
(ii) File No.	EN/T-II-1/016/2018
(iii) Clearance Type	Splitting of EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous)
(vii) Name of Project	'Splitting of Environment Clearance' - 10 x 20 T (0.6 MTPA) Induction Furnace with matching LRF & CCM and Cold Rolling Mill-0.19 MTPA as M/s Orissa Metaliks Private Limited and remaining 05 x 20T (0.3 MTPA) Induction Furnace with

	matching LRF & CCM, Hot Rolling Mill–0.65 MTPA and 45 MW Coal Dolochar Based Captive Power Plant as M/s Orissa Metallurgical Industry Private Limited at Village-Gokulpur, P.O-Shyamraipur, P.S-Kharagpur (L), Dist. Paschim Medinipur, West Bengal
(viii) Name of Company/Organization	ORISSA METALIKS PRIVATE LIMITED
(ix) Location of Project (District, State)	Medinipur West,WEST BENGAL
(x) Issuing Authority	SEIAA

3. The above-mentioned proposal has been considered by SEIAA in the meeting held on 27/05/2024. The minutes of the meeting and document's submitted are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above or through the following web link click here.
4. The SEIAA, in its meeting held on 27/05/2024, based on information submitted viz: Form 12 and after detailed deliberations on all technical aspects recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and its amendment dated 21 April 2023
5. Details of components/ facilities before and after Splitting of EC are as under: · Environmental Clearance (EC) was granted by SEIAA, Department of Environment, Govt. of West Bengal to M/s. Rashmi Metaliks Limited (Unit-III) vide EC No. 2707/EN/T-II-1/074/2015 dated 07.02.2016 for installation of Induction Furnace 10 x 20 T, 0.55 MTPA Rolling Mill along with Captive Power Plant 70 MW (25 MW coal based and 45 MW Dolochar-coal mix based) at Mouza-Mathurakismat & Amba, Vill-Gokulpur, P.O-Shyamraipur, P.S-Kharagpur, Dist-Paschim Medinipur. EC was transferred to M/s. Orissa Metaliks Private Limited vide EC No. 689/EN/T-II-1/074/2015 dated 03.04.2017. EC was granted by SEIAA to M/s. Orissa Metaliks Private Limited vide No. 3311/EN/T-II-1/016/2018 dated 3rd October, 2018 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 of M/s Orissa Metaliks Private Limited (OMPL) 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. The salient features of the project mentioned in the EC are given below:

PROJECT SUMMERY

Existing Project as per EC	Induction Furnace 10x20 T (0.6 MTPA), Rolling Mill 0.55 MTPA with 70 MW CPP (45 MW Coal Dolochar Mix and 25MW coal based)
Project after proposed expansion and change in product mix & configuration of plant.	Induction Furnace 15x20 (0.9 MTPA) with matching LRF & CCM, Rolling Mill 0.84 MTPA (Hot rolling Mill-0.65 MTPA+ Cold Rolling Mill- 0.19MTPA) with 45 MW Cola Dolochar mix based Captive Power Plant.
Project Location	Mathurakismat (J.L. No.114) & Mouja-Amba(J.L. No.115), Village Gokulpur, P.O-Shyamraipur, P.S- Kharagpur, Dist Paschim Medinipur, West Bengal. Latitude: 22^0 22''36.54'' N, Longitude: 87 ^{0}17' 05.15"E

Main Plant	**Unit**	**Existing**	**Additional**	**Total**
	Induction Furnace with matching LRF and CCM	10 X 20 T	5 X 20 T	15 X 20 T
	Rolling Mill	0.55 MTPA	Hot Rolling Mill-840000 TPA 2,50,000TPA Cold Rolling Mill- 40,000TPA	
	Captive Power Plant	45 MW-(1 x200 TPH--Coal Dolochar based) 25MW–(1x100 TPHcoal Based)	Will not Be installed	45 MW (1x200 TPH-Coal Dolochar Based)

Products	**Product**	**Existing Permission**	**Additional**	**Total**
	MS Billet	600000TPA	300000TPA	900000TPA

	TMT Bars, Wire &0.55 MTPA Wire Rod		TMT Bars, Wire &650000TPA Wire Rod- 250000 Wire/Coil, Flat Sheet190000TPA & Nails-40,000TPA
	Captive Power Plant(CFBC Based)	45 MW(Coal-Dolochar mixed based)	45 MW (Coal Dolochar mixed based)
		25 MW (Coal Based)	Will not be installed
Total raw materials Requirement	Sponge iron: 791000 TPA, Steel Scrap/Pig Iron: 2, 60,000 TPA, Lime Stone/ Dolomite: 52000 TPA, Ferro Alloy: 7300 TPA, Coal 1,12,200 TPA & Dolochar: 2,00,000 TPA		
Land	Existing Plant Area is 30Acres. The expansion/modification will be within the existing plat premises only. Greenery will be developed in 11.22 acres (37%)		
Project Cost Pollution Control 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. No change in project cost because of proposed proposal. Capital Cost**: Rs 20.00Crores** Recurring cost **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 Control Details Pollution Device	Unit Name	Configuration	APC & Stack Details
	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	650000 TPA	------
	Cold Rolling Mill with Annealing Heater	190000TPA	
	45 MW-CFBC based CPP (Dolochar coal mix based)	1 X 200 TPH	ESP stack 1 no., 75m

Solid Waste	Sl No.	Solid Waste	Revised Quantity Generation (TPA)	Solid Waste Management
	1	Slag and Dust from Induction furnace	171125	Slag to be used for road Construction, low land Filling & Paver Bock 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 pellatization mix.
	2	Mill scale and scarps from Rolling Mill & CCM	34800	Used as raw material in SMS Plant
	3	Fly Ash	96150	Used as a raw material for cement manufacturing/ brick manufacturing.
	4	Bottom Ash	55730	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 X600 KVA]

Applicability of EIA Notification 2006 — Category B1 [3(a): Metallurgical Industry (Ferrous & Non-Ferrous) & 1(d) Thermal power Plant]

The project proposal submitted by the PP during presentation :

M/s. Orissa Metaliks Private Limited is proposing to split the existing EC issued vide EC No. 3311/EN/T-II-1/016/2018 dated 03.10.2018 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 to M/s. Orissa Metaliks Private Limited andM/s Orissa Metallurgical Industry Private Limited (subsidiary of M/s. Orissa Metaliks Private Limited). The units in name of M/s. Orissa Metaliks Private Limited after splitting of EC and units to be transferred in name of M/s Orissa Metallurgical Industry Private Limited are given below:

S. No	Name of the Unit	Existing		Units under M/s. Orissa Metaliks Private Limited		Units under M/s Orissa Metallurgical Industry Private Limited	
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity
1	Induction Furnace with matching LRF & CCM Product:- Billets	15 x 20 T	9,00,000 TPA	10 x 20 T	6,00,000 TPA	5 x 20 T	3,00,000 TPA
2	Rolling Mill Product:- TMT Bars, Wire & Wire Rod	Hot Rolling Mill Product:- TMT Bars, Wire & Wire Rod	6,50,000 TPA	-	-	Hot Rolling Mill Product:- TMT Bars, Wire & Wire Rod	6,50,000 TPA
		Cold Rolling Mill Products:- Wire/coil, Flat Sheet & Nails	1,90,000 TPA	Cold Rolling Mill Products:- Wire coil	1,90,000 TPA	-	-
3	Captive Power Plant (CFBC Based) Product:- Power	45 MW (Coal Dolochar Mix Based)		-		45 MW (Coal Dolochar Mix Based)	

• Current status of the project as submitted by the PP during presentation:

S. No	Name of the Unit	Existing as per EC		Total Production		Current Status
		Config.	Capacity	Config.	Capacity	
1	Induction Furnace with matching LRF & CCM Product:- Billets	15 x 20 T	9,00,000 TPA	15 x 20 T	9,00,000 TPA	Operational
2	Rolling Mill Product:- TMT Bars, Wire & Wire Rod	Hot Rolling Mill Products:-TMT Bars, Wire & Wire Rod	6,50,000 TPA	8,40,000 TPA		6,50,000 TPA Hot Rolling Mill is under operation
		Cold Rolling Mill Products:-Wire/coil, Flat Sheet & Nails	1,90,000 TPA			1,50,000 TPA Cold Rolling Mill is under operation and balance 40,000 TPA yet to be

S. No	Name of the Unit	Existing as per EC		Total Production		Current Status
		Config.	Capacity	Config.	Capacity	
						implemented
3	Captive Power Plant (CFBC Based) Product:-Power	45 MW (Coal Dolochar Mix Based)		---		NOC is yet to obtained

As submitted by the PP, the total land of the project is 12.14 ha (30 acres) which is under the possession of the company and the entire land is industrial in nature. Now, as per present proposal, 5.06 ha (12.5 acres) of land will remain under M/s. Orissa Metaliks Private Limitedand balance 7.08 ha (17.5 acres) of land will be transferred to M/s Orissa Metallurgical Industry Private Limited. The details of land are given in Table below:

Type	EC sanctioned project	Project for the units to be remained with M/s. Orissa Metaliks Private Limited	Project for the units to be transferred under M/s Orissa Metallurgical Industry Private Limited
Total project Area	12.14 ha (30 acres)	5.06 ha (12.5 acres)	7.08 ha (17.5 acres)
Greenbelt Area	4.54 ha (11.22 acres)	1.89 ha (4.67 acres)	2.65 ha (6.55 acres)
Cost detail			
Project cost	Rs. 290 Crores	Rs. 100 Crores	Rs. 190 Crores
EMP cost	Rs. 20 Crores	Rs. 7 Crores	Rs. 13 Crores
Recurring cost	Rs. 2 Crores	Rs. 0.7 Crores	Rs. 1.9 Crores
Manpower detail			
Manpower	350 persons	75 persons	275 persons

Stack details of the units under M/s. Orissa Metaliks Private Limited

Sl. No.	Unit Name	Detail	Capacity of unit	No of Units	Stack height	Detail of A.P.C Devices
1	SMS-I.F. 1,2,3,4 & 5	(5 x 20 T)	3,00,000 TPA	05	35 m (Common)	Hood, Spark Arrestor, Bag Filters
2	SMS-I.F. 6,7,8,9 & 10	(5 x 20 T)	3,00,000 TPA	05	35 m (Common)	Hood, Spark Arrestor, Bag Filters
3	Cold Rolling Mill	1,90,000 TPA	1,90,000 TPA	01	-	No APC device is required

Stack details of the units under M/s Orissa Metallurgical Industry Private Limited

Sl. No.	Unit Name	Detail	Capacity of unit	No of Units	Stack height	Detail of A.P.C Devices
1	SMS-I.F. 1,2,3,4 & 5	(5 x 20 T)	3,00,000 TPA	05	35 m (Common)	Hood, Spark Arrestor, Bag Filters
2	Hot Rolling Mill with Induction Heater	6,50,000 TPA	6,50,000 TPA	01	-	No APC device is required
3	CFBC based CPP	1 x 45 MW	45 MW	01	75 m	E.S.P. with Pneumatic Ash Conveying System, Silo and Pug Mill

SEAC Observations and Recommendations:

Based on the submission made by the PP, the SEAC **recommended the proposal for splitting of the existing EC** issued vide EC No. 3311/EN/T-II-1/016/2018 dated 03.10.2018 in name to M/s. Orissa Metaliks Private Limited &M/s

Orissa Metallurgical Industry Private Limited in the following manner :

6,00,000 TPA SMS (10 x 20 T I.F with matching LRF & CCM) 1,90,000 TPA Cold Rolling Mill	Orissa Metaliks Private Limited
3,00,000 TPA SMS (5 x 20 T I.F with matching LRF & CCM) 6,50,000 TPA Hot Rolling Mill 45 MW CFBC based CPP (Coal & Dolochar based) CPP).	Orissa Metallurgical Industry Private Limited

6. The State Environment Impact Assessment Authority(SEIAA) has examined the proposal and based on the recommendations of the State Expert Appraisal Committee (SEAC) hereby splits the existing EC issued vide EC No. 3311/EN/T-II-1/016/2018 dated 03.10.2018 in name to M/s. Orissa Metaliks Private Limited & M/s Orissa Metallurgical Industry Private Limited under the provisions of EIA Notification, 2006 and its amendment dated 21 April 2023 subject to compliance of following conditions:
7. The Ministry reserves the right to stipulate additional conditions, if found necessary.
8. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006 and its subsequent amendment. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
9. Details of components/ facilities before and after Splitting of EC are as under: Detail about split of the facilities/utilities /activities/ancillary unit (as per the original EC), brief description of nature of operations, raw material required and final products, pollutants, mitigation measures

Sl. No	**Item**	**Existing EC in favour of M/s Orissa Metaliks Pvt. Ltd.**	**Facilities/utilities after Splitting of EC accorded units of Parent company, M/s Orissa Metaliks Pvt. Ltd to subsidiary Company, M/s Orissa Metallurgical Industry Private Limited.**	
			(Parent Company) M/s Orissa Metaliks Private Limited	**(Subsidiary Company) M/s Orissa Metallurgical Industry Private Limited**
A	**Title of the project**	Expansion and change in product mix & configuration of plant for Induction Furnace 15x20 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.	Expansion of plant by adding Induction Furnace 10x20 T (0.6 MTPA) with matching LRF & CCM and Cold Rolling Mill-0.19 MTPA 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.	Transfer of Induction Furnace 05x20 T (0.3 MTPA) with matching LRF & CCM , Hot Rolling Mill 0.65 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.
B	**Location**	Mathurakismat (J.L.No. 114) & Amba (J.L.No. 115), Village Gokulpur, P.O-Shyamraipur, P.S.-Kharagpur (L), Dist. Paschim Medinipur, West Bengal. **Latitude:** From22°22'30.62"N to 22°22'51.60"N **Longitude:** From 87°16'51.17"E	Mathurakismat (J.L.No. 114) & Amba (J.L.No. 115), Village Gokulpur, P.O-Shyamraipur, P.S.-Kharagpur (L), Dist. Paschim Medinipur, West Bengal. **Latitude:** From 22°22'30.77"N to 22°22'42.04"N **Longitude:**	Mathurakismat (J.L.No. 114) & Amba (J.L.No. 115), Village Gokulpur, P.O-Shyamraipur, P.S.-Kharagpur (L), Dist. Paschim Medinipur, West Bengal. **Latitude:** From 22°22'30.61"N to 22°22'51.62"N **Longitude:**

<table>
<tr><td></td><td></td><td>to 87°17'13.62"E</td><td>From 87°16'58.56"E
To 87°17'6.60"E</td><td>From 87°16'51.18"E
To 87°17'13.69"E</td></tr>
<tr><td>C</td><td>Facilities</td><td colspan="3"></td></tr>
<tr><td>1.</td><td>Induction Furnace with matching LRF and CCM</td><td>9,00,000 TPA (15x20 T with matching LRF and CCM)</td><td>6,00,000 TPA (10x20 T with matching LRF and CCM)</td><td>3,00,000 TPA (05x20 T with matching LRF and CCM)</td></tr>
<tr><td>2.</td><td>Rolling Mill</td><td>8,40,000 TPA (Hot Rolling Mill-6,50,000 TPA & Cold Rolling Mill-1,90,000 TPA)</td><td>Cold Rolling Mill-1,90,000 TPA</td><td>Hot Rolling Mill-6,50,000 TPA</td></tr>
<tr><td>3.</td><td>Captive Power Plant</td><td>45MW (Coal Dolochar Mix based)</td><td>---</td><td>45MW (Coal Dolochar Mix based)</td></tr>
<tr><td>D</td><td>Products</td><td colspan="3"></td></tr>
<tr><td>1.</td><td>MS Billet</td><td>9,00,000 TPA</td><td>6,00,000 TPA</td><td>3,00,000 TPA</td></tr>
<tr><td>2.</td><td>TMT Bars, Wire & Wire Rod</td><td>TMT Bars, Wire & Wire Rod-6,50,000 TPA
Wire/Coil, Flat Sheet & Nails-1,90,000 TPA</td><td>Wire/ Coil, Flat Sheet & Nails-- 1,90,000 TPA</td><td>TMT Bars, Wire & Wire Rod-6,50,000 TPA</td></tr>
<tr><td>3.</td><td>Power from CPP (CFBC based)</td><td>45 MW (Coal Dolochar Mixed Based)</td><td>---</td><td>45 MW (Coal Dolochar Mixed Based)</td></tr>
<tr><td></td><td></td><td>Other facilities/Utilities</td><td></td><td></td></tr>
<tr><td>E</td><td>Raw Materials Requirement</td><td>
<table>
<tr><th>Material Name</th><th>Quantity</th></tr>
<tr><td>Sponge iron</td><td>7,91,000 TPA</td></tr>
<tr><td>Steel Scrap/Pig Iron</td><td>2,60,000 TPA</td></tr>
<tr><td>Lime Stone/Dolomite</td><td>52,000 TPA</td></tr>
<tr><td>Ferro Alloy</td><td>7,300 TPA</td></tr>
<tr><td>Coal</td><td>1,12,200 TPA</td></tr>
<tr><td>Dolochar</td><td>2,00,000 TPA</td></tr>
</table>
</td><td>
<u>For (10x 20 T) SMS with matching LRF & CCM</u>
<table>
<tr><th>Material Name</th><th>Quantity</th></tr>
<tr><td>Sponge iron</td><td>5,27,300 TPA</td></tr>
<tr><td>Steel Scrap/Pig Iron</td><td>1,73,300 TPA</td></tr>
<tr><td>Ferro Alloy</td><td>4,870 TPA</td></tr>
</table>
<u>For Cold Rolling Mill</u>
<table>
<tr><th>Material Name</th><th>Quantity</th></tr>
<tr><td>Wire & Wire Rod (from New company / other companies)</td><td>1,95,000 TPA</td></tr>
</table>
</td><td>
<u>For (5 x 20 T) SMS with matching LRF & CCM</u>
<table>
<tr><th>Material Name</th><th>Quantity</th></tr>
<tr><td>Sponge iron</td><td>2,63,700 TPA</td></tr>
<tr><td>Steel Scrap/Pig Iron</td><td>86,700 TPA</td></tr>
<tr><td>Ferro Alloy</td><td>2,430 TPA</td></tr>
</table>
<u>For Hot Rolling Mill</u>
<table>
<tr><th>Material Name</th><th>Quantity</th></tr>
<tr><td>Billets (from parent company/other companies)</td><td>6,79,000 TPA</td></tr>
</table>
<u>For (45 MW Coal-Dolochar Mix based) CPP</u>
<table>
<tr><th>Material Name</th><th>Quantity</th></tr>
<tr><td>Coal</td><td>1,12,200</td></tr>
<tr><td>Dolochar</td><td>2,00,000 TPA</td></tr>
<tr><td>Lime Stone/Dolomite</td><td>52,000 TPA</td></tr>
</table>
</td></tr>
<tr><td>F</td><td>Land</td><td>12.14 ha (30 Acres)</td><td>5.06 ha (12.5 Acres)</td><td>7.08 ha (17.5 Acres)</td></tr>
<tr><td>G</td><td>Project Cost</td><td>290 Crores</td><td>100 Crores</td><td>190 Crores</td></tr>
<tr><td>H</td><td>Water Requirement</td><td>2712 KLD
Source: Existing Bore well/Rainwater Harvesting Pond</td><td>240 KLD
Source: 238 KLD - Ground water; & 02 KLD R.W.H.</td><td>2472 KLD
Source: 2424 KLD – Surface Water & 48 KLD - R.W.H.</td></tr>
<tr><td>I</td><td>Manpower</td><td>350 persons</td><td>75 persons</td><td>275 persons</td></tr>
</table>

J	**Power**	157 MW Source : WBSEDCL & Captive Power Plant D.G. Set: 4x600 KVA			72 MW Source : WBSEDCL & Captive Power Plant of associate company of the group D.G. Set: 2 x600 KVA			85 MW Source : WBSEDCL & Captive Power Plant D.G. Set: 2 x600 KVA		
K	**Air Pollution Control Device details**	Induction furnace with LRF & CCM (15x20 T)		03 no Bag Filter with 03 no. stack of 35 meter	Induction furnace with LRF & CCM (10x20 T)		02 no Bag Filter with 02 no. stack of 35 meter	Induction furnace with LRF & CCM (05x20 T)		01 no Bag Filter with 01 no. stack of 35 meter
		Hot Rolling Mill with induction heater		---	Cold Rolling Mill with Annealing heater		---	Hot Rolling Mill with induction heater		---
		Cold Rolling Mill with Annealing heater		---						
		45 MW-CFBC based CPP (Dolochar Coal mix based)		ESP Stack. 1 no.,75 m				45 MW-CFBC based CPP (Dolochar Coal mix based)		ESP Stack. 1 no.,75 m
L	**Solid Waste**	Solid waste	Qty. (TPA)	Management	Solid waste	Qty. (TPA)	Management	Solid waste	Qty. (TPA)	Management
		Slag & Dust from I.F	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.	Slag & Dust from I.F	1,14,080	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.	Slag & Dust from I.F	57,045	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.
								Mill Scale and scraps from Rolling Mill	29,200	Used as raw material in SMS plant of parent company/ other companies.

		Mill Scale and scraps from Rolling Mill & CCM	34,800	Used as raw material in SMS plant	Mill Scale and scraps from Rolling Mill & CCM	5,600	Used as raw material in SMS plant	Fly Ash	96,150	Used as a raw material for cement manufacturing/ brick manufacturing.
		Fly Ash	96,150	Used as a raw material for cement manufacturing/brick manufacturing.				Bottom Ash	55,730	Used for land filling/ road construction purpose.
		Bottom Ash	55,730	Used for land filling/road construction purpose.						
M	**Power Requirement**	**157 MW** Source: WBSEDCL & Captive Power Plant D.G. Set: 4x600 KVA			**72 MW** Source: WBSEDCL & Captive Power Plant D.G. Set: 2 x 600 KVA			**85 MW** Source: WBSEDCL & Captive Power Plant D.G. Set: 2 x 600 KVA		

10. This issues with the approval of the Competent Authority.

Annexure 1

Specific EC Conditions for (Metallurgical Industries (ferrous and non ferrous))

1. Additional Condition:-

S. No	EC Conditions
1.1	The PPs should comply with the EC conditions (including rainwater harvesting by storage) separately and independently for both projects.

Standard EC Conditions for (Metallurgical Industries (ferrous and non ferrous))

1 Statutory compliance

S. No	EC Conditions
1.1	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

S. No	EC Conditions
1.2	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

2 Miscellaneous

S. No	EC Conditions
2.1	The validity of EC is 10 years from the date of issue of the original EC issued vide No. 3311/EN/TII-1/016/2018 dated 03.10.2018.
2.2	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2.3	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
2.4	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
2.5	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
2.6	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
2.7	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
2.8	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
2.9	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
2.10	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.

S. No	EC Conditions
2.11	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
2.12	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
2.13	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
2.14	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
2.15	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
2.16	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
2.17	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
2.18	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

3 Air Quality Monitoring and Preservation

S. No	EC Conditions
3.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04/06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous and their no’s.)
3.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.

S. No	EC Conditions
3.3	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
3.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
3.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
3.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
3.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
3.8	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
3.9	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
3.10	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
3.11	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
3.12	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
3.13	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
3.14	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
3.15	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
3.16	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
3.17	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and

S. No	EC Conditions
	other strategic locations to control fugitive emissions from the plant.
3.18	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
3.19	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.

4 Air Quality Monitoring and Preservation in case of Ferro Alloy Plants

S. No	EC Conditions
4.1	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
4.2	The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
4.3	The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
4.4	Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m3 for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants. (in case of Silico Manganese and Ferro Silicon alloy steel)
4.5	No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.

5 Air Quality Monitoring and Preservation in case of Aluminium Smelter / Aluminium Refinery

S. No	EC Conditions
5.1	Adopt measures to recover fluoride gas from electrolytic cells and recycle the same in the process.
5.2	Practice use of low-sulphur tars for baking anodes
5.3	Adopt dry scrubbing combined with incineration in order to control emissions of tar and volatile organic compounds (VOCs). The waste heat shall be recovered from the flue gases of incinerator.
5.4	Make efforts to increase the life of pot lining through better construction and operating techniques.
5.5	Recycle alumina dust collected in ESPs installed in calciner.

S. No	EC Conditions
5.6	Design the pot roofs with louvers and roof ventilators

6 Air Quality Monitoring and Preservation in case of DI Pipe

S. No	EC Conditions
6.1	Ductile Iron (DI) plant shall have the following provisions: a. Bag filter for Zn coating and Mg converter area. b. Wet scrubbers in paint and bitumen coating area. c. Bag Filter in Cement lining area. d. PTFE dipped bags shall be used in the plant. e. PM emissions from BF in Zinc coating area shall be 5 mg/Nm3. f. ETP with recycling facility shall be included.

7 Air Quality Monitoring and Preservation in case of BOF

S. No	EC Conditions
7.1	Basic Oxygen Furnace (BOF) gas shall be cleaned dry

8 Water Quality Monitoring and Preservation

S. No	EC Conditions
8.1	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
8.2	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
8.3	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
8.4	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
8.5	Tyre washing facilities shall be provided at the entrance of the plant gates.
8.6	Water meters shall be provided at the inlet to all unit processes in the steel plants.
8.7	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
8.8	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no

S. No	EC Conditions
	contamination of any kind of water body.
8.9	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
8.10	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

9 Water Quality Monitoring and Preservation in case of Rolling Mills

S. No	EC Conditions
9.1	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time. (in case of rolling mills)
9.2	Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. (in case of cold rolling mills)

10 Water Quality Monitoring and Preservation in case of Alluminium Shelter

S. No	EC Conditions
10.1	Reduce water consumption in bauxite beneficiation and alumina refinery by concentrating the solids in the tailings.

11 Noise Monitoring and Prevention

S. No	EC Conditions
11.1	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
11.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

12 Energy Conservation Measures

S. No	EC Conditions
12.1	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
12.2	Restrict Gas flaring to < 1%.

S. No	EC Conditions
12.3	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
12.4	Provide LED lights in their offices and residential areas.

13 Energy Conservation Measures in case of Reheating Furnace

S. No	EC Conditions
13.1	Ensure installation of regenerative/recuperative type burners on all reheating furnaces.
13.2	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
13.3	Practice hot charging of slabs and billets/blooms as far as possible.
13.4	Ensure installation of regenerative type burners on all reheating furnaces

14 Energy Conservation Measures in case of Blast Furnace

S. No	EC Conditions
14.1	Blast Furnaces shall be equipped with Top Recovery Turbine, dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.

15 Energy Conservation Measures in case of DRI Kilns (Sponge Iron)

S. No	EC Conditions
15.1	The project proponent shall provide waste heat recovery system on the DRI Kilns.
15.2	The dolochar generated shall be used for power generation.
15.3	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
15.4	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

16 Waste Management

S. No	EC Conditions
16.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
16.2	Kitchen waste shall be composted or converted to biogas for further use.

S. No	EC Conditions
16.3	Used refractories shall be recycled as far as possible.
16.4	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
16.5	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
16.6	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
16.7	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.

17 Waste Management in case of Sinter Plant

S. No	EC Conditions
17.1	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.
17.2	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
17.3	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.

18 Waste Management in case of Aluminium Smelter/ Aluminium Refinery

S. No	EC Conditions
18.1	A plan for 100 % utilisation of red mud generated shall be implemented. Under the Plan, MOU with shall be signed with potential buyers including cement companies for supply of red mud.
18.2	The red mud generated from the project shall be stored in the red mud pond lined with impervious clay prior to use to prevent leakage, designed as per the CPCB guidelines with proper leachate

S. No	EC Conditions
	collection system. Ground water shall be monitored regularly all around the red mud disposal area and report submitted to the Regional Office of the Ministry. Proper care shall be taken to ensure no run off or seepage from the red mud disposal site to natural drainage.

19 Green Belt

S. No	EC Conditions
19.1	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
19.2	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
19.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

20 Public Hearing and Human Health Issues

S. No	EC Conditions
20.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
20.2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
20.3	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
20.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
20.5	All the commitments made towards socio-econmic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC. PP shall adopt nearby villages and prepare and implement a robust plan to develop them into model villages in next 10 years.

21 Environment Management

S. No	EC Conditions
21.1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
21.2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
21.3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
21.4	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

Additional EC Conditions

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 30 m 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 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. Regular monitoring of the air quality shall be carried out in and around the plant and records shall be maintained.

v. 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.

vi. Water meter to be installed at every inlet point of Fresh water uptake and also at circulation points and regular records to be maintained.

vii. Groundwater should not be abstracted without obtaining permission front 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.

viii. 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.

ix. Covered storage yard for raw materials to be provided. Loading and unloading operations should not be carried out in open areas.

x. As proposed, the unit must develop storage facilities to harvest rain water of capacity 300 KL so as to use the stored water for plantation, firefighting, washing & cleaning etc. Recharging or ground water is not permitted.

xi. Process effluent discharge is not permitted. Cooling water should be recycled.

xii. 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.

xiii. 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 (night-time) and its subsequent amendments.

xiv. At least 2100 nos. of trees to be planted in the green belt area of 4.67 acres. Green belt comprising of three rows of trees with thick canopy should be developed all along the periphery of the plant.

xv. 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 housekeeping shall be maintained within the premises. Solar lighting should be used as far as practicable.

xvi. 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.

xvii. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.

xviii. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.

xix. Trucks carrying coal and other raw material shall be covered with tarpaulin to prevent spreading of dust during transportation.

xx. 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.

xxi. At least 2 MW of solar power to be generated and utilized to reduce coal consumption.

xxii. Rain water harvesting pond of area 0.389 acres to create as proposed for surface storage of rain water.

xxiii. Rain water to be harvested at least to the extent of 8000 cum/annum and should be utilized in all plant requirement and limit ground water abstraction below 0.07 MGD.

xxiv. Need based activities for local people 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 validity of EC is 10 years from the date of issue of the original EC issued vide No. 3311/EN/T-II-1/016/2018 dated 03.10.2018.

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 safeguards measures Subsequently, if found necessary, and to take action including revoking of the environmental 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.

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 at Website of the MoEF&CC (http://parivesh.nic.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	Pulak Chakraborty-Director
Address	1,Grastin Place, 3rd Floor, Kolkata-700001
Telephone Number, Fax Number	033 22438518 Fax no. 033 2243 8517
E mail	orissametalikspvtltd@gmail.com
Name of the Environmental Consultant	Kalyani Laboratories Limited

Signature Not Verified

Digitally Signed by : Shri Dharmdeo Rai IFS
Member Secretary, SEIAA

Date: 25/07/2024