



File No: IA-J-11011/130/2022-IA-II(IND-I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 23/04/2024



To,

M/s. Rail Wheel Factory
Rail Wheel Factory , BENGALURU URBAN, KARNATAKA, , 560064
Email: rwyf4ec@gmail.com

Subject: **Increasing of production capacity of Axles from 75,000 axles/annum (36,750 Tonnes) to 1,65,000 axles/annum (80,850 Tonnes) & Existing capacity of Wheel shop of 2,00,000 no's/annum (97,000 Tonnes) by M/s Rail Wheel Factory, located at Puttenahalli Village & Yelahanka Village, Doddaballapur Road, Yelahanka Hobli, Bengaluru North Taluk, Bengaluru District, Karnataka –Grant of Environmental Clearance under the provisions EIA Notification, 2006 -regarding.**

Sir/Madam,

This refers to your proposal no **IA/KA/IND1/425156/2023** dated **08.01.2024** along with copy of EIA report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. Further, the PP has uploaded the information on portal on 01.03.2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A1010KA5991417N
(ii) File No.	IA-J-11011/130/2022-IA-II(IND-I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous)
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	Increasing of production capacity of Axles from 75,000 axles/annum (36,750 Tonnes) to 1,65,000 axles/annum (80,850 Tonnes) & Existing capacity of Wheel shop of 2,00,000 no's/annum (97,000 Tonnes)
(viii) Name of Company/Organization	Rail Wheel Factory
(ix) Location of Project (District, State)	BENGALURU URBAN, KARNATAKA

3. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered schedule S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous) and attracts General Condition since, Puttenahalli Lake Birds Conservation Reserve is at a distance of 131.8 m (W) from the project site. Hence considered under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.

4. The proposal is considered in the 53rd meeting of the EAC for Industry-I sector held during 12th –14th February, 2024, wherein the Committee, after detailed deliberations, recommended the proposal. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are given at **Annexure 1**, Unit configuration and capacity are given at **Annexure II**.

6. The EAC, in its meeting held during 12th to 14th February, 2024, inter-alia, deliberated the following:

i. The instant project is for increasing the production capacity of Axles shop from 75,000 no's/annum (36,750 TPA) to 1,65,000 no's/annum (80,850 TPA) & Existing capacity of Wheel Shop of 2,00,000 no's/annum (97,000 TPA).

ii. M/s Rail wheel factory was established in the year 1984 engaged in manufacturing of Rail Wheels – 2,00,000 no's/annum (97,000 Tonnes) and Axles – 75,000 no's/annum (36,750 Tonnes) i.e. before EIA notification 1994 & 2006. Hence, the proponent has not obtained Environmental Clearance for existing facility, the proponent has obtained Consent to Operate from Karnataka State Pollution Control Board. The latest consent has been granted vide letter no. AW-329624 on dated 05/02/2022 and it is valid up to 30.06.2026.

iii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

iv. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

v. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

vi. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.

vii. The total area of the project 77.25 ha [Private land] which is obtained by the Karnataka Housing Board for the establishment of the Rail Wheel Factory. The land is completely acquired and converted for industrial use.

viii. There are sensitive areas exists within the study area of the project site. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact due to the project activities on these sensitive areas.

xi. Puttenahalli Lake Birds Conservation Reserve is at a distance of 131.8 m (W) from the project site. Notified by Government of Karnataka vide No. FEE 389 FWL 2014 dated 29.04.2015. The EAC opined that PP shall implement mitigation measures to prevent any impacts on the Puttenahalli Lake Birds Conservation Reserve.

x. Yalahanka Lake is at a distance of 98 m in East and Puttenahalli Lake at 136 in West along with other water bodies near within the study area. The EAC is of the opinion that the water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be prepared and implemented.

xi. The water requirement for the proposed project is estimated as 75 m³/day and requirement will be met through BWSSB treated water source and open wells. The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority in this regard. PP shall also explore the possibility to shift to alternate source of water for meeting its requirement to reduce the dependency on ground water.

xii. The Committee has found that the baseline data and incremental GLC due to the proposed project and found it satisfactory.

xiii. The PP has submitted that existing green belt has been developed in 28.22 ha area which is about 36.54% of the total project area of 77.25 ha with total sapling of 45,910 Trees (existing) and 29,600 Trees (proposed). Proposed greenbelt will be developed in same greenbelt area. The EAC deliberated on the greenbelt action plan along with budget and is of the opinion that greenbelt shall be completed within a period of 1 year.

xiv. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.

xv. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.

xvi. The EAC deliberated on the written submission of project proponent and found it satisfactory.

xvii. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

xviii. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. 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. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

xix. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

7. The EAC, in its 53rd meeting of Expert Appraisal Committee (Industry-1 Sector) held during 12th–14th February, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements.

8. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee

(Industry-1 Sector) hereby decided to grant **Environment Clearance** for instant proposal of **M/s. Rail Wheel Factory** under the provisions of EIA Notification, 2006 subject to specific conditions and general conditions at **Annexure III**.

9. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

10. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

11. Any appeal against this environmental clearance 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.

12. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

13. This issues with approval of the competent authority.

(Dr. R. B. Lal)
Scientist 'F'/ Director
Tel: 011-20819346
Email-rb.lal@nic.in

Copy To

1. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
2. The Member Secretary, Karnataka State Pollution Control Board, No. 25, 6- 9th Floor, Public Utility Building, M.G. Road, Bangalore – 560 001.
3. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 560034
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
6. The Chief Wildlife Warden, Govt. of Karnataka, Aranya Bhawan, 18th Cross, Malleswaram, Bangalore-560003
7. District Collector, Bengaluru, District, Karnataka.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
9. Guard File/Monitoring File/Website/Record File/Parivesh Portal.

(Dr. R. B. Lal)
Scientist 'F'/ Director

Details of the proposal are as per the EIA/EMP report

S. No.	Particulars	Details		
a.	Terms of Reference for undertaking EIA study	07.06.2022		
b.	Period of baseline data collection	March 2022 to May 2022 (Pre-Monsoon) and February 2023		
c.	Date of Public Consultation	28.11.2022		
d.	Action plan to address the PH issues	The industry is spending Rs. 7 Crores annually As per O.M F.No. 22-65/2017-IA.III dated 30th September 2020 issued by MoEF & CC. Detail of activities proposed attached as Annexure IV .		
e.	Location of the project	Puttenahalli Village & Yelahanka Village, Doddaballapur Road, Yelahanka Hobli, Bengaluru North Taluk, Bengaluru District, Karnataka		
f.	Latitude and Longitude of the project site	Point	Latitude	Longitude
		A	13° 6'42.11"N	77°34'50.12"E
		B	13° 6'44.58"N	77°34'58.11"E
		C	13° 6'47.40"N	77°35'8.72"E
		D	13° 6'47.82"N	77°35'11.34"E
		E	13° 6'46.59"N	77°35'13.62"E
		F	13° 6'38.48"N	77°35'18.71"E
		G	13° 6'37.48"N	77°35'17.67"E
		H	13° 6'22.38"N	77°35'25.18"E
		I	13° 6'22.38"N	77°35'25.96"E
		J	13° 6'16.51"N	77°35'28.35"E
		K	13° 6'17.84"N	77°35'24.34"E
		L	13° 6'14.12"N	77°35'11.48"E
		M	13° 6'13.46"N	77°35'5.80"E
		N	13° 6'12.97"N	77°35'4.65"E
		O	13° 6'16.77"N	77°35'0.99"E
		P	13° 6'17.76"N	77°35'1.01"E
		Q	13° 6'17.63"N	77°35'0.21"E

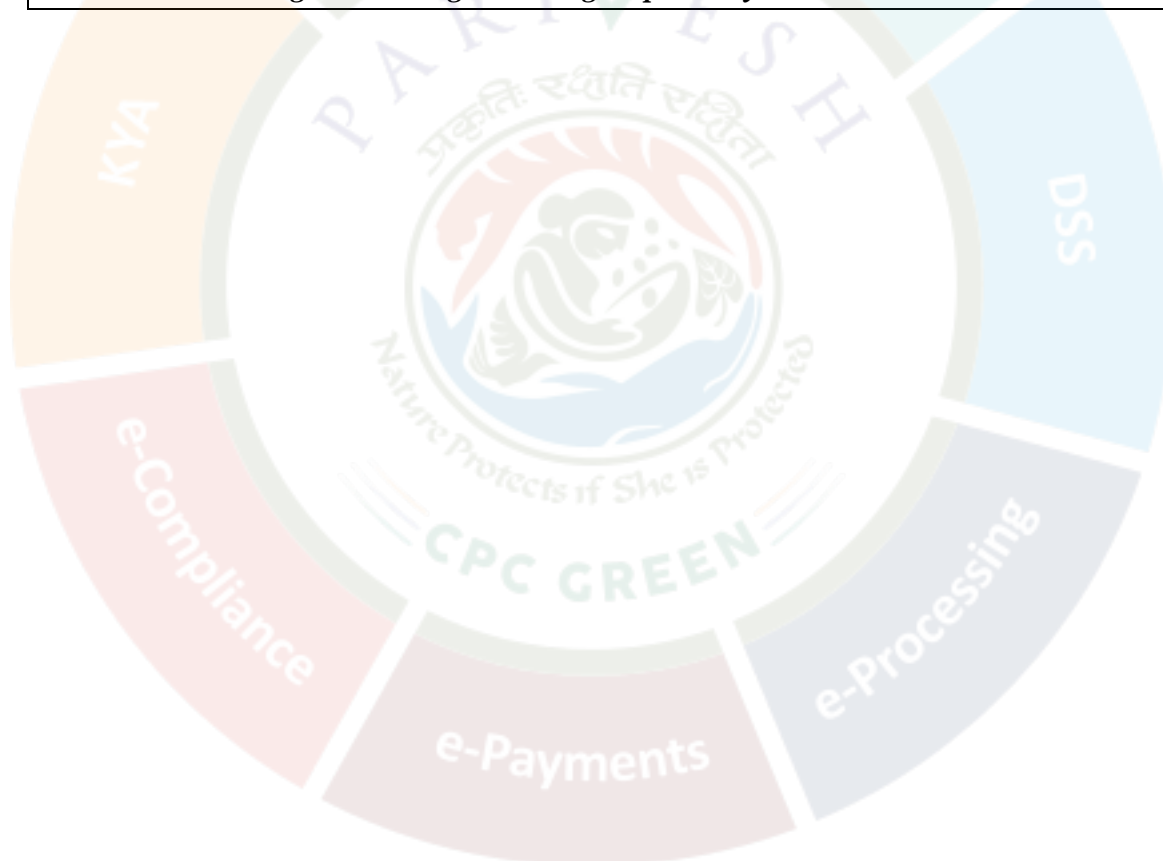
S. No.	Particulars	Details																	
		R	13° 6'18.73"N	77°34'59.18"E															
		S	13° 6'19.85"N	77°35'2.90"E															
		T	13° 6'24.03"N	77°35'3.43"E															
		U	13° 6'24.69"N	77°34'58.67"E															
		V	13° 6'23.59"N	77°34'59.08"E															
		W	13° 6'20.07"N	77°34'59.19"E															
		X	13° 6'19.86"N	77°34'58.68"E															
		Y	13° 6'19.40"N	77°34'59.05"E															
		Z	13° 6'19.19"N	77°34'58.79"E															
		AA	13° 6'24.12"N	77°34'54.22"E															
		AB	13° 6'27.54"N	77°34'51.93"E															
		AC	13° 6'34.25"N	77°34'49.83"E															
		AD	13° 6'34.18"N	77°34'56.51"E															
		AE	13° 6'39.28"N	77°34'57.02"E															
		AF	13° 6'39.13"N	77°34'50.65"E															
g.	Total land	77.25 ha (190.91 Acres) [Private]																	
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	The total area of the project 7,72,586 Sqm which is obtained by the Karnataka Housing Board for the establishment of the Rail Wheel Factory.																	
i.	Existence of habitation & involvement of R&R, if any	There is no habitation on the proposed project area. Land is converted for Industrial use. so, R & R policy is not applicable.																	
j.	Elevation of the project site	947 m																	
k.	Involvement of Forest land if any.	No Forest land is involved.																	
l.	Water body exists within the project site as well as study area	<p>Project Site: There is no nala or water body passing through within the project site.</p> <p>Study Area</p> <table><tr><th>Water Body</th><th>Distance</th><th>Direction</th></tr><tr><td>Yalahanka Lake</td><td>97.9 m</td><td>E</td></tr><tr><td>Puttenehalli Lake</td><td>136 m</td><td>W</td></tr><tr><td>Allalasandra Lake</td><td>1.29 Km</td><td>S</td></tr><tr><td>Attur Lake</td><td>1.5 Km</td><td>W</td></tr></table>			Water Body	Distance	Direction	Yalahanka Lake	97.9 m	E	Puttenehalli Lake	136 m	W	Allalasandra Lake	1.29 Km	S	Attur Lake	1.5 Km	W
Water Body	Distance	Direction																	
Yalahanka Lake	97.9 m	E																	
Puttenehalli Lake	136 m	W																	
Allalasandra Lake	1.29 Km	S																	
Attur Lake	1.5 Km	W																	

S. No.	Particulars	Details			
		Jakkur Lake	1.9 Km	SE	
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<p><u>Study area</u> Puttenahalli Lake Birds Conservation Reserve</p> <p>Status of Notification: Notified by Government of Karnataka vide No. FEE 389 FWL 2014 dated 29.04.2015.</p> <p>Distance: 131.8 m (W)</p> <p>Authenticated map of ESZ projecting distance of ESZ from project site: Not applicable</p> <p>Status of NBWL approval: Not applicable</p> <p>List of Reserved and protected forests: Not applicable</p>			
n.	Project cost	Proposed – INR Rs 453.13 Crores			
o.	EMP cost	Type	Capital (Rs. in Crores)	Recurring (Rs. in Crores)	
		Proposed	28.45	8.2182	
p.	Employment opportunity	72 persons			
q.	Water and Power requirement	(Total)Water -742 KLD, Power –25 MW			

Unit configuration and capacity

S. No.	Plant Equipment / facility	Existing facilities as per CFO	Proposed Units	Final (Existing + Proposed)
		Capacity		
1	Wheel	2,00,000 Nos/Annum (97000 TPA)	-	2,00,000 Nos/Annum (97000 TPA)
2	Axle	75,000 Nos/Annum (36750 TPA)	90,000 Nos/Annum (44100 TPA)	1,65,000 Nos/Annum (80850 TPA)

Note: Total Quantity in Tonnes of Wheel and Axle is calculated by considering one wheel and axle weight is 485 Kg & 490 Kg respectively.



Specific and General EC conditions**A. Specific Condition:**

- i. 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.
- ii. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- iv. There are sensitive areas exists within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- v. PP shall implement mitigation measures to prevent any impacts on the Puttenahalli Lake Birds Conservation Reserve.
- vi. Yalahanka Lake is at a distance of 98 m in East and Puttenehalli Lake at 136 in West along with other water bodies near within the study area. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- vii. The total water requirement of 75 m³ shall be sourced through BWSSB treated water source and open wells. PP shall obtain necessary permission from the Competent Authority. PP shall also explore the possibility to shift to alternate source of water for meeting its requirement to reduce the dependency on ground water.
- viii. Three tier Green Belt shall be developed in at least 33% of total project area in a period of 1 year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy alongwith windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- ix. All the commitments made towards socio-economic 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 amounting to Rs. 7 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.

- x. The PP shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.

A. General Conditions

I. Statutory compliance:

- i. 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.
- ii. 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.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 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.
- ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x 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.
- iii. 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.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. 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.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

- ix. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
- x. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xi. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiii. 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.
- xiv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- xv. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xvi. 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.
- xvii. 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.

III. Water quality monitoring and preservation

- i. 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.
- ii. 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.
- iii. 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.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.

- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. 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 contamination of any kind of water body.
- vii. 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.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. 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.

IV. Noise monitoring and prevention

- i. 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.
- ii. 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.

V. Energy Conservation measures

- i. 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;
- ii. Provide LED lights in their offices and residential areas.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 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.
- iv. 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.

- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

VII. Green Belt

- i. 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.
- ii. 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.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. 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.
- iii. 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.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. 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.
- ii. 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.

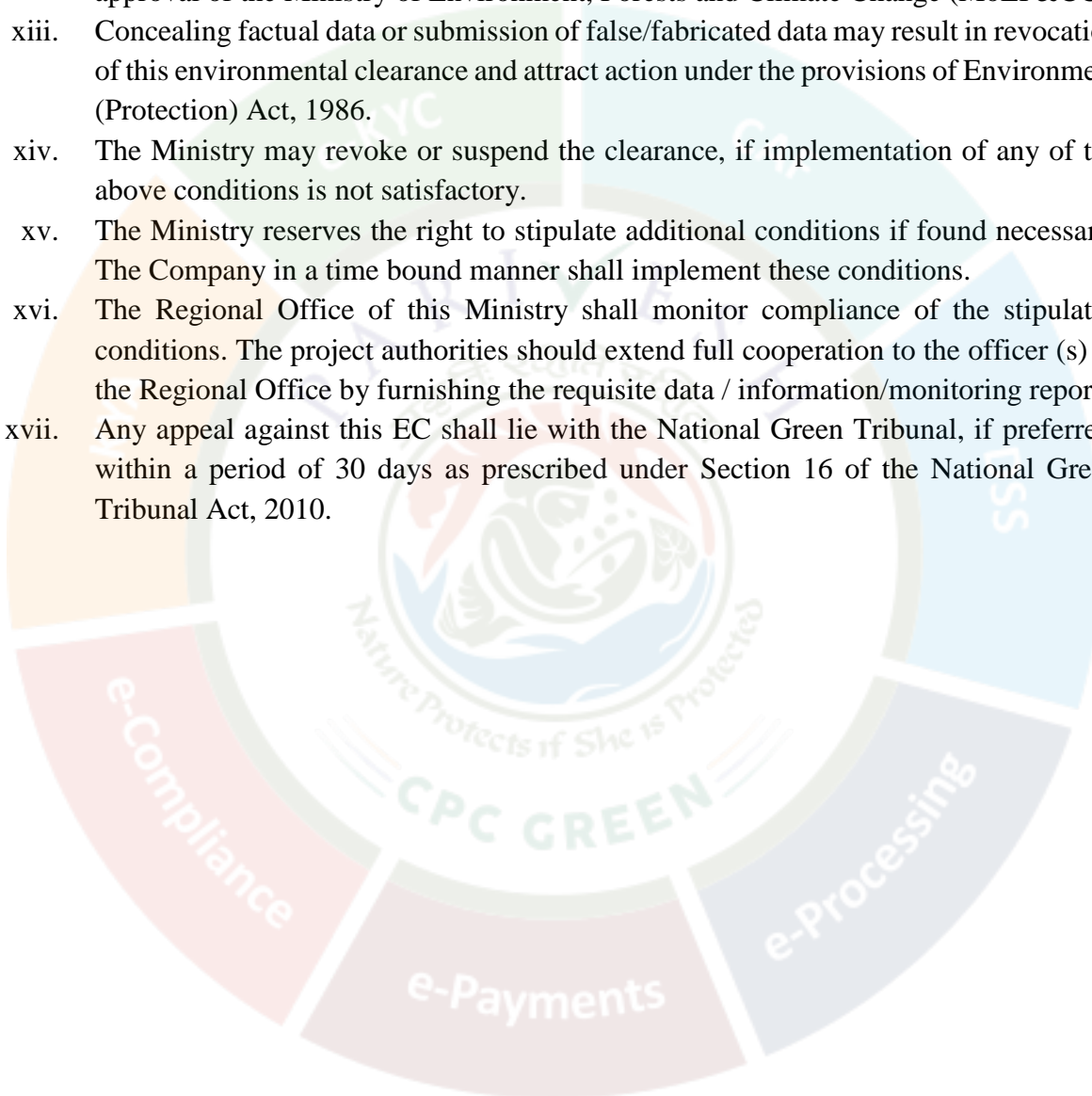
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

X. Miscellaneous

- i. 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.
- ii. 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.
- iii. 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.
- iv. 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.
- v. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. 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.
- vii. 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.
- viii. 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.
- ix. 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.
- x. 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.

- xi. 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.
- xii. 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).
- xiii. 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.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. 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.
- xvii. 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.



Action plan as per MoEF&CC O.M. dated 30/09/2020

- The industry will be contributing towards development of the surrounding environment as a part of socio economic activities. As per O.M F.No. 22-65/2017-IA.III dated 30th September 2020 issued by MoEF & CC, the industry is spending Rs. 7 Crores annually on Kendriya Vidyalaya School located in Railways Colony, Yelahanka, Bengaluru.
- A full-fledged Kendriya Vidyalaya having classes from 1st standard to 12th standard (3 sections each) is being sponsored by Rail Wheel Factory through payment of Salary and Allowances for the Staff and also providing the infrastructure facilities.
- The admission to the classes is governed under the guidelines issued by Government of India which caters to various sections of society by providing 25 % seats to economically weaker sections under RTE Quota. Further, reservation is also provided for applicants belonging to SC/ST communities. The expenditure incurred towards KV/RWF is for community at large.
- At present 1602 students are studying at KV RWF out of which 886 kids are wards of RWF employees and rest 716 kids are from local community.

