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ENVIRONMENTAL
CLEARANCE



Government of India Ministry of Environment, Forest and Climate Change (Impact Assessment Division)

To,

The GM
REAL POWER PRIVATE LIMITED
Vrindavan, Near IDBI Bank, Civil Lines, Raipur -
492001,,Mungeli,Chhattisgarh-495334

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/CG/IND/142231/2017 dated 02 Sep 2020. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23A008CG110697
2. File No.	J-11011/347/2017-IA-II(I)
3. Project Type	Expansion
4. Category	A
5. Project/Activity including Schedule No.	3(a) Metallurgical industries (ferrous & non ferrous)
6. Name of Project	Real Power Private Limited
7. Name of Company/Organization	REAL POWER PRIVATE LIMITED
8. Location of Project	Chhattisgarh
9. TOR Date	20 Jul 2017

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 07/11/2023

(e-signed)
Dr. R B Lal
Scientist F
IA - (Industrial Projects - 1 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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F. No. J-11011/347/2017-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division – Industry I sector)

Indira Paryavaran Bhawan
Vayu Wing, 3rd Floor,
Jor Bagh Road, Aliganj,
New Delhi – 110003

Dated: 7th November, 2023

To,

M/s Real Power Private Limited
Vrindavan, Near IDBI Bank, Civil Lines,
Raipur, Mungeli, Chhattisgarh – 492 001
Email: realpowerraipur@gmail.com

Project: Establishment of 1 x 9 MVA Ferro Alloys plant (Silicon Manganese–14400 TPA or Ferro Manganese–25200 TPA or Ferro Chrome–15000 TPA or Ferro Silicon–7000 TPA or Pig Iron –25200 TPA) in existing 7.5 MW Biomass based Power Plant premises (Forward Integration) in existing plant premises by M/s Real Power Private Limited, located at Khamhardih Village, Pathariya Tehsil, Mungeli District, Chhattisgarh - Grant of Environmental Clearance-regarding.

Sir,

This refers to your proposal no. No. IA/CG/IND/142231/2017, dated 02/09/2020 along with copy of EIA/EMP report and Form 2 seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above.

2. The proposed project activity is listed at S. No. **3(a) Metallurgical industries (ferrous & non-ferrous) under Category “A”** of the schedule of the EIA Notification, 2006 and appraised at Central Level.

3. The instant Proposal was earlier placed before the EAC in its 23rd meeting held during 28-30th September, 2020 wherein the EAC has deferred the proposal. In this context, the PP has uploaded the information on Parivesh portal after two years on 8th September 2022 and consequently the proposal was re-considered by the EAC in its 14th meeting held on 29-30th September, 2022 wherein the EAC has again deferred the proposal as the baseline data was older than 3 months. In this context, PP has uploaded the information on portal on 03.08.2023. Subsequently, **the proposal was further considered in 43rd EAC Meeting held during 4th-5th September, 2023 wherein after detailed deliberations, the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions.** The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>

4. 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 as under: -

S. No.	Particulars	Details submitted by PP
a.	Terms of Reference for undertaking EIA study	20/07/2017

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b.	Period of baseline data collection	1 st October 2017 to 31 st December 2017 & 1 st October 2022 to 31 st December 2022(Revalidation).																																																			
c.	Date of Public Consultation	8 th November 2019																																																			
d.	Action plan to address the PH issues	Amounts of Rs 26 Lakhs have been earmarked to address the issues raised during public hearing. Detail of activities proposed attached as Annexure 1 .																																																			
e.	Location of the project	Khamhardih Village, Pathariya Tehsil, Mungeli District, Chhattisgarh																																																			
f.	Latitude and Longitude of the project site	<table border="1"> <thead> <tr> <th>S.No.</th><th>Point</th><th>Coordinates</th></tr> </thead> <tbody> <tr><td>1.</td><td>Point # 1</td><td>21°56'27.19"N; 81°59'13.16"E</td></tr> <tr><td>2.</td><td>Point # 2</td><td>21°56'29.46"N; 81°59'22.92"E</td></tr> <tr><td>3.</td><td>Point # 3</td><td>21°56'22.91"N; 81°59'23.16"E</td></tr> <tr><td>4.</td><td>Point # 4</td><td>21°56'25.41"N; 81°59'28.16"E</td></tr> <tr><td>5.</td><td>Point # 5</td><td>21°56'22.79"N; 81°59'29.11"E</td></tr> <tr><td>6.</td><td>Point # 6</td><td>21°56'22.79"N; 81°59'31.37"E</td></tr> <tr><td>7.</td><td>Point # 7</td><td>21°56'25.41"N; 81°59'30.42"E</td></tr> <tr><td>8.</td><td>Point # 8</td><td>21°56'24.10"N; 81°59'33.63"E</td></tr> <tr><td>9.</td><td>Point # 9</td><td>21°56'28.62"N; 81°59'35.29"E</td></tr> <tr><td>10.</td><td>Point # 10</td><td>21°56'32.55"N; 81°59'31.49"E</td></tr> <tr><td>11.</td><td>Point # 11</td><td>21°56'34.81"N; 81°59'33.03"E</td></tr> <tr><td>12.</td><td>Point # 12</td><td>21°56'35.29"N; 81°59'30.65"E</td></tr> <tr><td>13.</td><td>Point # 13</td><td>21°56'34.45"N; 81°59'24.82"E</td></tr> <tr><td>14.</td><td>Point # 14</td><td>21°56'31.83"N; 81°59'22.09"E</td></tr> <tr><td>15.</td><td>Point # 15</td><td>21°56'29.10"N; 81°59'18.40"E</td></tr> <tr><td>16.</td><td>Point # 16</td><td>21°56'28.03"N; 81°59'12.93"E</td></tr> </tbody> </table>	S.No.	Point	Coordinates	1.	Point # 1	21°56'27.19"N; 81°59'13.16"E	2.	Point # 2	21°56'29.46"N; 81°59'22.92"E	3.	Point # 3	21°56'22.91"N; 81°59'23.16"E	4.	Point # 4	21°56'25.41"N; 81°59'28.16"E	5.	Point # 5	21°56'22.79"N; 81°59'29.11"E	6.	Point # 6	21°56'22.79"N; 81°59'31.37"E	7.	Point # 7	21°56'25.41"N; 81°59'30.42"E	8.	Point # 8	21°56'24.10"N; 81°59'33.63"E	9.	Point # 9	21°56'28.62"N; 81°59'35.29"E	10.	Point # 10	21°56'32.55"N; 81°59'31.49"E	11.	Point # 11	21°56'34.81"N; 81°59'33.03"E	12.	Point # 12	21°56'35.29"N; 81°59'30.65"E	13.	Point # 13	21°56'34.45"N; 81°59'24.82"E	14.	Point # 14	21°56'31.83"N; 81°59'22.09"E	15.	Point # 15	21°56'29.10"N; 81°59'18.40"E	16.	Point # 16	21°56'28.03"N; 81°59'12.93"E
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g.	Total land	26.82 acres of land (10.85 ha)																																																			
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	The land is in possession of the management.																																																			
i.	Existence of habitation & involvement of R&R, if any	<p>Project site: No habitation exists in the plant site</p> <p>Study Area</p> <table border="1"> <thead> <tr> <th>Habitation</th><th>Distance</th><th>Direction</th></tr> </thead> <tbody> <tr><td>Atarra Village</td><td>0.65 kms.</td><td>E</td></tr> </tbody> </table>	Habitation	Distance	Direction	Atarra Village	0.65 kms.	E																																													
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j.	Elevation of the project site	245 m above mean sea level																																																			
k.	Involvement of Forest land if any.	No Forest Land is involved.																																																			
l.	Water body exists	Project site: No																																																			



S. No.	Particulars	Details submitted by PP
	within the project site as well as study area	<p>Study area : Maniyari River – 0.05 Kms., Agar River – 5.5 Kms., Shivnath river – 8.0 Kms. exists within 10 Km. radius of the plant site.</p> <p>Copy of the letter issued by Executive Engineer, Maniyari Water Resources Division, Mungeli district, Chhattisgarh vide dated 20th June 2022 is submitted. The letter confirms the following:</p> <ul style="list-style-type: none"> • Plant site of M/s. Real Power Pvt. Ltd. is not falling within the flood plain of Maniyari River (In accordance with O.M. issued by MoEF&CC vide dated 14th February 2022). • Map showing spread of 5 years, 10 years, 15 years, 20 years duly depicting the highest flood along with scale. • HFL of Maniyari river near to the plant based on last 20 years data is 242.00 M. • Elevation of the plant site is 245 M. Hence there will be no flood water entering into the plant site of Real Power Pvt.Ltd. <p>Mitigation measures:</p> <ul style="list-style-type: none"> • Compound wall of 1.5 m already exists on the Maniyari river side. Photograph showing the same is submitted. • Ferro Alloy plant is situated at a distance of 340 m from the Maniyari river. <p>Greenbelt of 30 m width will be developed towards Maniyari river side (Eastern direction).</p>
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Nil
n.	Project cost	The capital cost of the expansion project is Rs. 13.0 Crores
o.	EMP cost	The capital cost for environmental protection measures is proposed as Rs. 2.0 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 0.316 Crores
p.	Employment opportunity	The employment generation from the proposed expansion project is 40 direct & 135 Indirect.
q.	Water and Power requirement	<p>Water required in the existing plant is 490 KLD and is being sourced from Khamhardih anicut of Maniyari river. Water required for the proposed expansion project will be 30 KLD and same will also be sourced from Khamhardih anicut of Maniyari river. Total water requirement after expansion will be 520 KLD.</p> <p>Total power required for the existing unit & for the proposed expansion units will be 11.75 MW which will be partly met from the existing 7.5 MW biomass-based power (net 6.75 MW will be available from power plant after deducting Aux. consumption) Balance power of 5 MW will be sourced from</p>



S. No.	Particulars	Details submitted by PP
		Chhattisgarh State Power Generation Company Limited (CSPGCL).

Unit configuration and capacity:

S. No.	Unit	Existing	Proposed expansion	After expansion
1	Biomass based Power Plant	7.5 MW	-	7.5 MW
2	Ferro Alloys Plant (1 x 9 mVA)	---	Silicon Manganese (SiMn) – 14400 TPA or Ferro Manganese (FeMn) – 25200 TPA or Ferro Chrome (FeCr) – 15000 TPA or Ferro Silicon (FeSi) – 7000 TPA or Pig Iron – 25200 TPA	Silicon Manganese (SiMn) – 14400 TPA or Ferro Manganese (FeMn) – 25200 TPA or Ferro Chrome (FeCr) – 15000 TPA or Ferro Silicon (FeSi) – 7000 TPA or Pig Iron – 25200 TPA

Note: 100 Kg/Hr. Capacity Briquetting plant will be established for effective dust management.

6. The EAC, in its meeting held during **4th–5th September 2023**, inter-alia, deliberated the following:

- i. The instant proposal is proposed to establish 1 x 9 MVA Ferro Alloys plant (Silicon Manganese – 14400 TPA or Ferro Manganese – 25200 TPA or Ferro Chrome – 15000 TPA or Ferro Silicon – 7000 TPA or Pig Iron – 25200 TPA) in existing 7.5 MW Biomass based Power Plant premises (Forward Integration) in existing plant premises.
- ii. 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.
- iii. 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.
- iv. 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.

- v. The total project area is 10.85 ha. This land is under the possession of the company and is industrial in nature.
- vi. The nearest habitation to plant is Atarra Village which is at distance of 0.65 km in East direction. The EAC is of the opinion that PP shall strictly implement the environmental safeguard measures proposed to minimise the impact on the habitation of the locals.
- vii. Maniyari River is very close to the project site at distance of 50 m. Also, Agar River – 5.5 km and Shivnath river – 8.0 km also exists within 10 km radius of the plant site. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be strictly implemented.
- viii. Total water requirement after expansion will be 520 KLD. This includes Make-up water for Power Plant, Ferro Alloys plant and Domestic water. Existing plant has already obtained Water drawl permission to draw 0.182 MCM (551 KLD) of water from Khamhardih anicut of Maniyari River from Water Resource Department, Raipur, Chhattisgarh. The EAC deliberated on the water requirement and found is satisfactory.
- ix. The Committee has deliberated on the baseline data along with revalidated data and incremental GLC due to the proposed project and found it satisfactory.
- x. The PP has submitted that existing greenbelt is in 3.83 ha (9.46 acres) which is about 33% of the total area and is being maintained in existing plant premises. Till date total no. of plants planted are 9350 no. and with survival rate of 90%. 8490 nos. of plant exist in the plant premises. 2500 nos. of plant/hectare will be maintained in the existing plant premises, hence additionally 1500 nos. of plant will be planted within 1 year from the date of accord of EC. The EAC deliberated on the revised greenbelt layout plan along with action plan and the budget earmarked and is of the opinion that PP shall complete the proposed greenbelt development in a period of 1 year.
- xi. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- xii. 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.
- xiii. The EAC also deliberated on the ADS reply of the project proponent and found it satisfactory.
- xiv. 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.
- xv. 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.

xvi. 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 (Industry-1 Sector), in its **43rd meeting held on 4th – 5th September, 2023**, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance subject to stipulation of specific and general conditions as detailed in the point below.

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 Real Power Private Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general 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. The nearest habitation to plant is Atarra Village which is at distance of 0.65 km in East direction. 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 this location in its environmental monitoring programme.
- v. Maniyari River is very close to the project site at distance of 50 m. Also, Agar River – 5.5 km and Shivnath river – 8.0 km also exists within 10 km radius of the plant site. 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.
- vi. The water requirement of 520 KLD shall be obtained from Khamhardih anicut of Maniyari River only after obtaining necessary permission from the Competent Authority.
- vii. Three tier Green Belt shall be developed in at least 33% of the project area in a period of 1 year all along 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 also 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 along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Atarra Village. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

- viii. 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. 0.26 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- ix. As committed, PP shall adopt Khamhardih Village & Rambod and prepare and implement the action plan to develop them into a model village.
- x. As committed, Pet coke shall not be used in Submerged Electric Arc Furnace to produce Ferro Alloys.

B. 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. 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 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 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.
- xviii. Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
- xix. The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
- xx. The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
- xxi. 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.

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.

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. The industry should draw up and implement and action plan for achieving carbon neutrality consistent with India's commitment to achieving carbon neutrality. The action plan should contain milestones with targets to be achieved in suitable periods.
- iv. 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. 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.

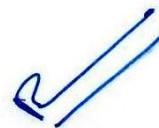
9. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above 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
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Encl. as above at Annexure –I

Copy to: -

- 1. The Principal Secretary Forest, Mahanadi Bhawan, Nawa Raipur, Atal Nagar Chhattisgarh, India.
- 2. Additional Chief Secretary Forest, Mahanadi Bhawan, Nawa Raipur, Atal Nagar, Chhattisgarh.
- 3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.



4. The Principal Chief Conservator of Forests (HoFF) Chhattisgarh Forest Department, Jai Road Aranya Bhavan Raipur, Chhattisgarh- 492007
5. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19 Naya Raipur, Atal Nagar, Chhattisgarh - 492002.
6. The Chairman, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
7. The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhavan, North Block Sector-19 Naya Raipur, Chhattisgarh -492002
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi -110001
9. The Monitoring Cell, IA Division, Ministry of Environment, Forest and Climate Change, New Delhi.
10. The District Collector, Mungeli, Chhattisgarh.
11. Guard File/Record File/Monitoring File/MoEFCC website/Parivesh Portal.



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

S.NO.	MAJOR ACTIVITY HEADS	YEAR OF IMPLEMENTATION			TOTAL EXPENDITURE (Rs. in Lakhs)
		1st Year (Rs. in Lakhs)	2nd Year (Rs. in Lakhs)	3rd Year (Rs. in Lakhs)	
	Based on Public Hearing issues				
1					
	i) Construction of entrance gate and renovation of Mahamaya Temple	Physical No. & village	1 no. in Rambod	---	---
		Budget in Lakhs	13.0	---	--
	ii) Mineral water plants	Physical Nos. & village	2 nos. in Rambod (v)	1 no. Khamhardih (v)	---
		Budget in Lakhs	6.0	3.0	---
	iii) Support for sports activities	Physical Nos. & village	---	Rambod (v)	---
		Budget in Lakhs	---	2.0	---
	iv) Avenue plantation along both sides of approach road from Rambod village and Plant site	Physical Nos. & village	---	Rambod (v)	---
		Budget in Lakhs	---	2.0	---
					Total
					26.0

Signature Not Verified

Digitally signed by: Dr. R B Lal
 Designation: Scientist F
 Date and Time: 11/7/2023 5:02:28 PM