

# **PARIVESH**

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**ENVIRONMENTAL  
CLEARANCE**



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

To,

The Director  
SINGHAL ENTERPRISES PRIVATE LIMITED  
HIG 10, Sector 1, Shankarnagar Road, Raipur  
Chhattisgarh, Raipur, Chhattisgarh-492007

**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/252503/2020 dated 21 Jan 2022. The particulars of the environmental clearance granted to the project are as below.

<b>1. EC Identification No.</b>	<b>EC22A008CG174322</b>
<b>2. File No.</b>	J-11011/195/2007-IA.II(I)
<b>3. Project Type</b>	Expansion
<b>4. Category</b>	A
<b>5. Project/Activity including Schedule No.</b>	3(a) Metallurgical industries (ferrous & non ferrous)
<b>6. Name of Project</b>	SINGHAL ENTERPRISES PVT. LTD.
<b>7. Name of Company/Organization</b>	SINGHAL ENTERPRISES PRIVATE LIMITED
<b>8. Location of Project</b>	Chhattisgarh
<b>9. TOR Date</b>	19 Sep 2020

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

Date: 17/02/2022

(e-signed)  
Sundar Ramanathan  
Scientist E  
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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This refers to your proposal no. IA/CG/IND/252503/2020 dated 21/01/2022 submitted through Parivesh Portal seeking grant of **Environment Clearance (EC)** for the project mentioned above.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is listed at schedule no. 3(a) Metallurgical Industries (Ferrous and Non/ferrous) and 1 (d) Thermal Power Plant under Category “A” of the schedule of the EIA Notification, 2006 and appraised at central level.
3. Accordingly, the above-mentioned proposal has been considered by the **Re-constituted EAC (Industry-I)** in its **52<sup>nd</sup> meeting held on 27<sup>th</sup>, 28<sup>th</sup> and 31<sup>st</sup> January, 2022**. 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 report submitted by the proponent. The salient features of the expansion proposal as presented during the above-mentioned meeting of EAC (Industry 1) are as under: -

*R. Jiwat*

S.No.	Particulars	Details		
a.	Terms of Reference for undertaking EIA study	19/09/2020		
b.	Period of baseline data collection	Baseline monitoring data for the period from 1 <sup>st</sup> October 2020 to 31 <sup>th</sup> December 2020.		
c.	Date of Public Consultation	28/07/2021		
d.	Action plan to address the PH issues	In addition to EMP budget, an amount of Rs. 200 lakhs have been earmarked to address the issues raised during public hearing and Rs. 240 Lakhs has been earmarked to address the issues based on Social Impact Assessment (SIA) conducted.		
e.	Location of the project	Taraimal Village, Tamnar Tehsil, Raigarh District, Chhattisgarh.		
f.	Latitude and Longitude of the project site	Point	Latitude	Longitude
		1	22°02'21.96"N	83°21'03.20"E
		2	22°02'17.15"N	83°21'10.51"E
		3	22°02'14.46N	83°21'29.74"E
		4	22°02'10.03"N	83°21'31.47"E
		5	22°02'10.03"N	83°21'40.51"E
		6	22°02'12.54"N	83°21'48.40"E
		7	22°02'10.61"N	83°21'57.44"E
		8	22°02'03.88"N	83°22'06.29"E
		9	22°02'02.15"N	83°21'53.98"E
		10	22°01'30.60"N	83°22'05.91"E
		11	22°01'40.99"N	83°21'32.63"E
		12	22°01'42.33"N	83°21'18.39"E
		13	22°01'48.68"N	83°21'12.04"E
		14	22°01'49.64"N	83°21'06.85"E
g.	Total land	137 Ha. (338.53 Acres) [Private Land: 137 Ha.]		

S.No.	Particulars	Details
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Already Acquired Total land available for the plant is 137 Ha. Out of this 74.836 Ha. is registered in the name of M/s. Singhal Enterprises Pvt. Ltd. and for the remaining land of 62.583 Ha. Long-term lease deed (30 years) has been executed between the Directors of the company (individuals) & Ms/. Singhal Enterprises Pvt. Ltd.
i.	Existence of habitation & involvement of R&R, if any	<b>Project site:</b> No habitation exists in the plant site <b>Study Area:</b> Taraimal Village (1.0 Km)
j.	Elevation of the project site	275 m AMSL
k.	Involvement of Forest land if any.	Nil
l.	Water body exists within the project site as well as study area	<b>Project Site:</b> Nil <b>Study area:</b> Kelo river (3.0 Kms.), Dewanmunda Nallah (1.2 Kms.) & Gerwani Nallah (2.4 Kms.) are flowing within the study area And Few other ponds are present within study area of the plant.
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Nil.  However, movement of Elephants is observed within 10 Kms. radius of the plant, as per the secondary source. Conservation plan is prepared. Conservation plan is approved by PCCF vide letter no. va.pra./Prabandh-433/129 dated 14/09/2021 with budget of Rs. 57 Lakhs to be spent over a period of 5 years. Other details: Taraimal RF (adjacent), Barkachaar RF (6.0 Kms.), Rabo RF (9.0 Kms), Maghat RF (6.5 Kms.), Samaruna RF (7.5 Kms), Paihar PF (5.0 Kms.) & Urdana RF (6.0 Kms.) exists within 10 Km. radius of the plant site.
n.	Project cost	INR 577 Crores
o.	EMP cost	The capital cost for environmental protection measures is proposed as Rs. 86.4 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs.9.63 Crores.
p.	Employment opportunity	750 Nos.
q.	Water and Power requirement	Water – 9703 m <sup>3</sup> /day [Existing - 6735 m <sup>3</sup> /day; Proposed Additional - 2968 m <sup>3</sup> /day] Power – 100.6 MW [Existing – 52.5 MW; Proposed Additional – 48.1 MW]

**Unit configuration and capacity:**

S No	Unit (Products)	Existing Plant (in Operation) As per EC dated 19/02/2008 and its amendments dated 21/12/2010 & 23/03/2011 (A)	EC dated 23/07/2018 &06/03/2019 (B)	Present Expansion Proposal (C)	Production capacities after Proposed Expansion (A+B+C)
1.	Pelletization Plant (Pellets)	---	---	2 x 0.6 MTPA	2 x 0.6 MTPA
2.	DRI Kilns [Sponge Iron]	2,53,500 TPA	30,000 TPA <b>(Under operation)</b>	2,10,000 TPA (2x350TPD)	4,93,500 TPA
3.	Induction furnace with CCM & LRF [Hot Billets / MS Billets]	96,000 TPA	1,20,000 TPA	2,40,000 TPA (4x20 MT)	4,56,000 TPA
4.	Rolling Mills <i>(With Hot charging)</i> [Rolled products]	--	90,000 TPA* (300 TPD) <b>(In operation)</b>	3,30,000 TPA (1,20,000 TPA* + 2,10,000 TPA) (The existing 300 TPD will be upgraded to 1x700 TPD & New 1x700 TPD unit)	4,20,000 TPA
5.	Ferro Alloy [Si-Mn]	10,800 TPA	--	--	10,800 TPA
6.	Sinter Plants [Sinter]	--	2,59,200 TPA (1x50 m <sup>2</sup> ) <b>(Yet to be implemented)</b>	2,59,200 TPA (1 x 50 m <sup>2</sup> )	5,18,400
7.	Blast Furnaces [Pig Iron]	--	87,500 TPA (1x125 M <sup>3</sup> ) <b>(Yet to be implemented)</b>	2,25,000 TPA (1 x 300 M <sup>3</sup> )	3,12,500 TPA
8.	Coal Washery [Washed Coal]	--	1,50,000 TPA <b>(Applied for CTO &amp; awaiting for the same)</b>	--	1,50,000 TPA
9.	Power Plant through WHRB	8 MW	8 MW (in operation) <b>(2 MW Yet to be implemented)</b>	2x8 MW from DRI + 8.0 MW from MBF (from Existing & proposed)	40 MW

S No	Unit (Products)	Existing Plant (in Operation) As per EC dated 19/02/2008 and its amendments dated 21/12/2010 & 23/03/2011  (A)	EC dated 23/07/2018 & 06/03/2019  (B)	Present Expansion Proposal  (C)	Production capacities after Proposed Expansion  (A+B+C)
10.	Power Plant through Boiler FBC	1x8 MW & 1x18 MW	7 MW (in operation) (1x15 MW Yet to be implemented)	--	48 MW
11.	Fly Ash Brick Making Plant	<b>30,000 Bricks/day</b>	---	----	<b>30,000 Bricks/day</b>

**Note:**

\* The CTO of 90,000 TPA\* (300 TPD) Rolling mill has been obtained and in operation. After Obtaining E.C. for present expansion proposal this 300 TPD Rolling mill will be upgraded to 700 TPD (2,10,000 TPA) capacity.

- D. Singh*
5. The Re-constituted EAC (Industry-I) EAC in its 52<sup>nd</sup> meeting held on 27<sup>th</sup>, 28<sup>th</sup> and 31<sup>st</sup> January, 2022, 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 paragraph given below.
  6. 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) hereby decided to grant Environment Clearance for instant proposal of M/s. **Singhal Enterprises Private Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions.

**A. Specific Conditions**

- i. The project proponent shall abide by all orders and judicial pronouncements, made from time to time by the Hon'ble National Green Tribunal in Original Application No. 55 of 2021 along with I.A. No. 44/2021.
- ii. Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.
- iii. Internal roads shall be designed for 20 Million Standard Axle. Entry gate shall have Bell Mouthed Entry.
- iv. Solid waste utilization
  - PP shall install a fly ash brick making plant.
  - PP shall recycle/reuse 100 % solid waste generated in the plant.
  - Used refractories shall be recycled as far as possible.
- v. Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.
- vi. Blast Furnace shall be equipped with dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.

- vii. Submerged Arc Furnace shall be of closed type with 4th hole extraction system.
- viii. 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or BF gas.
- ix. Dust emission from stacks shall be less than 30 mg/Nm<sup>3</sup>.
- x. 14850 KLD water shall be drawn from Kelo river. No ground water abstraction is permitted.
- xi. Green Belt shall be developed in 33 % of total land with tree density of 2500 trees per ha. (or 1000 trees per acre) all along the periphery of the project site. This shall include development of green belt with a width of 30 m within the project site towards Taraimal reserve forest and Village Taraimal. In addition to this, 600 trees are to be translocated after prior permission from the concerned competent authority. Additional 3000 trees will be planted in the area of translocation covering 1.25 Ha land thus the total green belt shall be 52.25 Ha as committed.
- xii. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
- xiii. The recommendations of the approved Site-Specific Wildlife Conservation Plan 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.

## **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 four Continuous Ambient Air Quality Station (CAAQS) 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. 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.
- iii. 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.
- iv. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- v. 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.

- vi. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.
- vii. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- viii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

### **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 (G.S.R 414 (E) dated 30<sup>th</sup> May 2008; G.S.R 277 (E) dated 31<sup>st</sup> March 2012 (applicable to IF/EAF); S.O. 3305 (E) dated 7<sup>th</sup> December 2015 (Thermal Power Plants) 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 recognised 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 recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31<sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time.
- v. 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. Noise monitoring and prevention**

- i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

### **V. Energy Conservation measures**

- i. Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.

### **VI. Waste management**

- i. Used refractories shall be recycled.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

### **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 including plantation.

### **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 of Factory Act.

- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

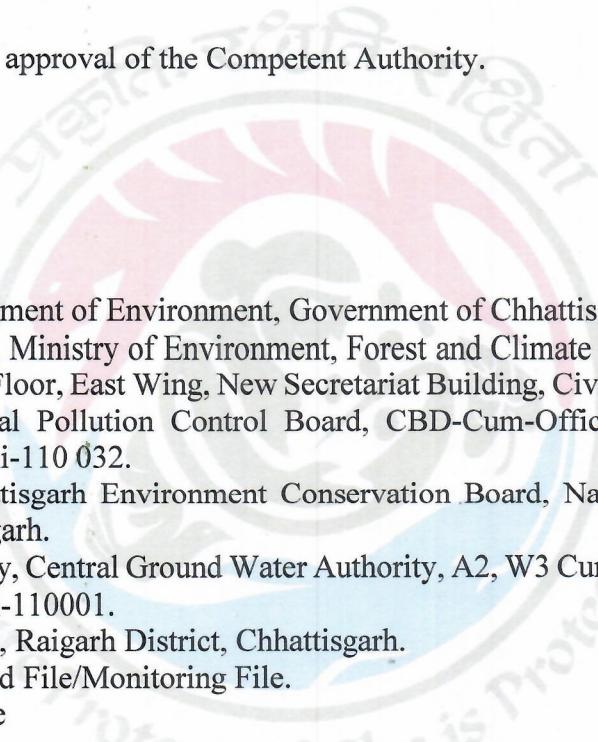
#### **IX. Environment Management**

- 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.
- 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.

#### **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; PM<sub>10</sub>, SO<sub>2</sub>, 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. 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.
- vi. 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.
- vii. 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.
- viii. 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.

- ix. 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).
  - x. 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.
  - xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
  - xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
  - 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.
  - xiv. 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.
7. This issues with the approval of the Competent Authority.



*S. Ranganathan* 12/4/22  
(Sundar Ramanathan)  
Scientist 'E'

**Copy to:-**

1. Secretary, Department of Environment, Government of Chhattisgarh Secretariat Raipur.
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur – 44000.
3. Chairman, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
4. Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
5. Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. District Collector, Raigarh District, Chhattisgarh.
7. Guard File/Record File/Monitoring File.
8. MoEFCC website

*S. Ranganathan* 12/4/22  
(Sundar Ramanathan)  
Scientist 'E'