



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

To,

The Chief Corporate Officer  
MSP STEEL AND POWER LIMITED  
MSP Steel and Power Ltd. 1, Crooked Lane, Kolkata- 700  
069,,Kolkata,West Bengal-700069

**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/286310/2019 dated 12 Jan 2023. The particulars of the environmental clearance granted to the project are as below.

- |  |  |
|--|--|
| 1. EC Identification No.                   | EC23A008CG130672   |
| 2. File No.                                | J-11011/267/2007-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                         | Expansion of DRI Plant [Sponge Iron] from 375,000 TPA [existing] to 953,000 TPA [Post Expansion], Steel Melting Shop from 384,000 TPA [existing] to 1171,000 TPA [post expansion], Rolling Mill from 480 |
| 7. Name of Company/Organization            | MSP STEEL AND POWER LIMITED  |
| 8. Location of Project                     | Chhattisgarh   |
| 9. TOR Date                                | 25 May 2019  |

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

Date: 16/03/2023

(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.*

*This is a computer generated cover page.*



**F. No. J-11011/267/2007-IA.II(I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(I.A. Division – Industry I sector)**

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**Indira Paryavaran Bhawan**  
**Vayu Wing, 3<sup>rd</sup> Floor,**  
**Jor Bagh Road, Aliganj,**  
**New Delhi – 110003**

**Dated: 16<sup>th</sup> March, 2023**

To,

**M/s MSP Steel and Power Ltd.**  
1, Crooked Lane, Kolkata- 700 069,  
Kolkata, West Bengal-700069  
Email: [pk.dey@mstpsteel.com](mailto:pk.dey@mstpsteel.com)

**Project: Expansion of DRI Plant [Sponge Iron] from 375,000 TPA [existing] to 953,000 TPA [Post Expansion], Steel Melting Shop from 384,000 TPA [existing] to 1171,000 TPA [post expansion], Rolling Mill from 480,000 TPA [existing] to 1020,000 TPA [Post Expansion], Coal washery from 360,000 TPA [existing] to 720,000 TPA [post expansion], Captive power plant from 72.5 MW [existing] to 123.5 MW [post expansion], new Sinter Plant of 720,000 TPA, new Blast Furnace of 450,000 TPA, new oxygen plant [220 TPD] by M/s MSP Steel & Power Ltd., located at Village – Jamgaon, Tehsil Raigarh District – Raigarh, Chhattisgarh – Grant of Environmental Clearance regarding.**

Sir,

This refers to your proposal no. IA/CG/IND/286310/2019 dated 12.01.2023 along with copy of EIA/EMP Report, Form - 2 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 Parivesh portal on 14.02.2023.

2. The proposed project activity is listed at S. No. 3(a) Metallurgical industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

3. The instant Proposal was considered in the 22<sup>nd</sup> EAC Meeting held during 30<sup>th</sup> – 31<sup>st</sup> January, 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 the PP
a.	Terms of Reference for undertaking EIA study	08.09.2020
b.	Period of baseline data collection	1 <sup>st</sup> October 2020 to 31 <sup>st</sup> December 2020

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S. No.	Particulars	Details submitted by the PP		
c.	Date of Public Consultation	25/03/2022		
d.	Action plan to address the PH issues	Certain amounts have been earmarked to address the issues raised during public hearing. Detail of activities proposed attached as <b>Annexure 1.</b>		
e.	Location of the project	Village – Jamgaon, Tehsil Raigarh District – Raigarh, Chhattisgarh		
f.	Latitude and Longitude of the project site	<b>Point</b>	<b>Latitude</b>	<b>Longitude</b>
		A	21°52'31.10"N	83°33'18.89"E
		B	21°52'31.97"N	83°33'21.99"E
		C	21°52'44.87"N	83°33'24.15"E
		D	21°52'52.98"N	83°33'23.23"E
		E	21°52'47.67"N	83°33'15.33"E
		F	21°53'00.07"N	83°33'09.42"E
		G	21°53'13.97"N	83°33'12.38"E
		H	21°53'13.56"N	83°33'03.94"E
		I	21°53'16.50"N	83°33'01.98"E
		J	21°53'17.96"N	83°33'00.20"E
		K	21°53'19.67"N	83°32'50.79"E
		L	21°53'19.55"N	83°32'45.80"E
		M	21°53'15.11"N	83°32'43.70"E
		N	21°53'07.49"N	83°32'47.89"E
		O	21°53'01.25"N	83°32'57.32"E
		P	21°52'53.44"N	83°33'04.44"E
		Q	21°52'35.33"N	83°33'11.65"E
		R	21°52'34.93"N	83°33'10.56"E
		S	21°52'42.26"N	83°32'53.67"E
T	21°52'50.18"N	83°32'48.42"E		
U	21°52'41.50"N	83°32'38.28"E		
V	21°52'35.14"N	83°32'36.13"E		
W	21°52'29.71"N	83°32'38.96"E		
X	21°52'30.61"N	83°33'08.98"E		
g.	Total land	98.08 Ha [Private Land]		
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	<ul style="list-style-type: none"> <li>Existing projects: 50.9 Ha (ownership of MSPL)</li> <li>Additional Land available (in possession of MSPL) for expansion units: 24.20 ha</li> <li>Land under acquisition by State Govt: 23 Ha. (case forwarded to District Collector by SIPB)</li> </ul>		
i.	Existence of habitation & involvement of R&R, if any	<p>23 ha additional land will be acquired as per the land acquisition policy of CG government. R&amp;R plan for the project affected families has been prepared. No house or other structures are present on the identified land. The land-owners will be paid financial compensation, as decided by the State Government. One member of the project affected family will be given employment in MSPL. R&amp;R Plan is submitted.</p> <p><b>Nearest Habitations:</b></p>		



S. No.	Particulars	Details submitted by the PP									
		The nearest human settlement from the project site are Jamgaon – (1.6 km, SSW), Manuapali (0.3 km, West), Saraipali (0.8 km, NW) and Kolaibahal (0.5 km, SE).									
j.	Elevation of the project site	250 m above MSL									
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>Water body within project site: One seasonal nalla is passing through the plant area will be kept undisturbed.</p> <p><b>In study area (10 km)</b></p> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Kur Nalla</td> <td>1.2 km</td> <td>North to South</td> </tr> <tr> <td>Sapnai Nadi</td> <td>5 km</td> <td>North-East to South</td> </tr> </tbody> </table>	Water body	Distance	Direction	Kur Nalla	1.2 km	North to South	Sapnai Nadi	5 km	North-East to South
Water body	Distance	Direction									
Kur Nalla	1.2 km	North to South									
Sapnai Nadi	5 km	North-East to South									
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<p>Nil</p> <p>Reserve forest and protected forest of Raigarh division in CG side (22 Nos) forests) and Sundergarh division in Odisha Side (7 Nos) are present in the study area.</p> <p>Elephant, Sloth bear, Pangolin, Monitor Lizard and Peacock are the Schedule 1 species found in study area. Wildlife Conservation Plan approved by PCCF. Wildlife Conservation Plan has been prepared for envisaging budget of Rs.15,30,307. Wild life conservation plan has been approved by PCCF / CWLW vide letter dated 23.09.2022.</p>									
n.	Project cost	The capital cost of the proposed project is Rs 2045 crores									
o.	EMP cost	The capital cost for environmental protection measures is proposed as Rs 210.88 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 13.88 Crores.									
p.	Employment opportunity	The employment generation from the proposed project is 400									
q.	Water and Power requirement	<p>The water requirement for the existing project is 5505 KLD, which is taken from anicut constructed on Kur nala. Fresh water requirement for the expansion project is 3050 KLD, which will be taken from the anicut on Kur nala.</p> <p>The power requirement for the existing project is 65 MW. The power requirement of the expansion project will be 85 MW.</p>									

**Unit configuration and capacity:**

S. No	Name of Unit	Name of Product	Existing Production Capacity		Expansion Production Capacity, TPA		Ultimate Production
			Configuration	Capacity TPA	Configuration	Capacity TPA	Capacity TPA
1	Coal Washery	Clean coal	1 x 50 TPH	3,60,000	1 x 50 TPH	3,60,000	7,20,000 TPA



S. No	Name of Unit	Name of Product	Existing Production Capacity		Expansion Production Capacity, TPA		Ultimate Production Capacity TPA
			Configuration	Capacity TPA	Configuration	Capacity TPA	
2	Producer gas plant	Coal gas	2 x 6000 + 6 x 2200 + 1 x 8000 Nm <sup>3</sup> /h	116.81 mNm <sup>3</sup> /yr	-	-	116.81 mNm <sup>3</sup> /year
3	Iron ore beneficiation plant	Iron ore Concentrate	9,00,000 TPA	9,00,000	-	-	9,00,000 TPA
4	Pellet Plant	Iron ore Pellets	1 x 0.833 MTPA	8,33,000	-	-	8,33,000
			1 x 0.417 MTPA	4,17,000	-	-	4,17,000
						<b>Total</b>	<b>12,50,000 TPA</b>
5	DRI Plant	Sponge iron	3 x 375 TPD	375,000	-	-	3,75,000
			-	-	2 x 600 TPD 1 x 500 TPD	4,08,000 1,70,000	5,78,000
						<b>Total</b>	<b>9,53,000 TPA</b>
6	Sinter Plant	Sinter	-	-	60 m <sup>2</sup>	7,20,000	7,20,000 TPA
7	Blast Furnace	Hot Metal/ Pig Iron	-	-	380 m <sup>3</sup>	4,50,000	4,50,000 TPA
8	SMS – 1	Billets	1x18 tons IF 3x15 tons IF 5 x 8 tons IF	384,000	3x20 tons IF	1,93,000	5,77,000
	SMS – 2	Billets	-	-	4x30 tons IF 1x60 tons LD Convrt LRF-60T, VDU-60T	5,94,000	5,94,000
						<b>Total</b>	<b>1,171,000 TPA</b>
9	Rolling Mill-1	TMT Bar, LSM, HSM	TMT mill	4,80,000	-	-	4,80,000
	Rolling Mill-2	Strip, Bar, Wire Rod	Hot St rip Mill & Bar & Wire Rod Mill	-	-	5,40,000	5,40,000
						<b>Total</b>	<b>10,20,000 TPA</b>
10	Oxygen Plant	Oxygen, Nitrogen, Argon			1x220 TPD	220 TPD	220 TPD
11	Captive Power Plant	Electricity	WHRB 1x16 MW 1x8 MW	24 MW	WHRB 2x18 MW 1x15 MW	51 MW	75 MW
			CFBC 1x34 MW 1x10 MW	44 MW	-	-	44 MW
			Biomass 1x4.5 MW	4.5 MW	-	-	4.5 MW
						<b>Total</b>	<b>123.5 MW</b>



6. The EAC, in its meeting held during **30th – 31<sup>st</sup> January, 2023**, **inter-alia**, deliberated the following:

- i. The instant proposal is for expansion of DRI Plant [Sponge Iron] from 375,000 TPA [existing] to 953,000 TPA [Post Expansion], Steel Melting Shop from 384,000 TPA [existing] to 1171,000 TPA [post expansion], Rolling Mill from 480,000 TPA [existing] to 1020,000 TPA [Post Expansion], Coal washery from 360,000 TPA [existing] to 720,000 TPA [post expansion], Captive power plant from 72.5 MW [existing] to 123.5 MW [post expansion], new Sinter Plant of 720,000 TPA, new Blast Furnace of 450,000 TPA, new oxygen plant [220 TPD].
- 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. M/s. MSP Steel and Power Limited has obtained environmental Clearance by MoEF&CC vide letter No. J-11011/267/2007-IA II (I) dated 02/04/2009 for capacity expansion of Billet production from 95,000 to 695,000 TPA and Captive Power Plant from 16 MW to 52 MW. Subsequently, amendment to the environmental Clearance was issued on 9/9/2010 for change in the capacity of Pellet plant from 0.6 MTPA to 0.9 MTPA and Captive Power Plant from 20 MW to 44 MW (AFBC Boiler). Thereafter, another amendment to the environmental Clearance was issued on 23/08/2012 for change in configuration of Steel Melting Shop within permitted production capacity of 672,172 TPA Billets and inclusion of 4.5 MW biomass based power plant. The EC was further amended on 26.12.2019 for expansion of Sponge Iron Plant from 3,00,000 TPA to 3,75,000 TPA through process optimization. Further, the amendment in Environmental clearance was accorded by the Ministry vide F. No. J-11011/267/2007-IA II (I), dated 28/11/2022.
- vi. Total project land is 98.08 ha. Existing projects is located within 50.9 Ha which is under the ownership of the company. Additional Land for expansion project is 47 ha out of which 24.20 ha is in possession of company and balance 23 ha land is under acquisition by State Govt. (case forwarded to District Collector by SIPB). MSPL is requesting to permit the expansion units in two



phases; one that could be established on the 24.2 ha land available with MSPL and second on 22.98 ha land under acquisition by the state government.

- vii. The project involves R&R as 23 ha additional land will be acquired as per the land acquisition policy of Chhattisgarh government. R&R plan for the project affected families has been prepared. No house or other structures are present on the identified land. The land-owners will be paid financial compensation, as decided by the State Government. One member of the project affected family will be given employment in MSPL. R&R Plan is submitted.
- viii. The nearest human settlement from the project site are Jamgaon – (1.6 km, SSW), Manuapali (0.3 km, West), Saraipali (0.8 km, NW) and Kolaibahal (0.5 km, SE).
- ix. Kur Nalla (1.2 km, North to South) and Sapnai Nadi (5 km, North-East to South) flows within the study area of 10 km from the project 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 implemented.
- x. The water requirement for the existing project is 5505 KLD, which is taken from anicut constructed on Kur nala. Fresh water requirement for the expansion project is 3050 KLD, which will be taken from the anicut on Kur nala. As the PP committed to plant about 66000 trees as a proposed Green belt plantation, it is necessary to keep atleast 500 Cu m water provision in water balance for such GB.
- xi. Existing greenbelt is in 16.8 ha (33% of existing project area of 50.81 ha), as reported 28000 saplings have been planted and balanced 14000 saplings @2500 plants/ha will be planted during 2023-24. Further for the additional land proposed greenbelt will be developed in 15.5 ha land which is 33% of the additional project area (47 ha for expansion). Thus total of 32.3 ha area (33% of total project area) will be developed and retained as greenbelt. A 10 m to 25 meter wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEFCC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total 38750 new saplings will be planted and nurtured in 15.5 hectares in 1-3 years (8 ha land in 1st year – Ph-1; 7.5 ha in 2-3 years- Ph 2). The EAC deliberated on the greenbelt action plan and found it satisfactory.
- xii. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- xiii. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- xiv. 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.
- xv. Elephant, Sloth bear, Pangolin, Monitor Lizard and Peacock are the Schedule 1 species found in study area. Wildlife Conservation Plan approved by PCCF. Wildlife Conservation Plan has been prepared for envisaging budget of Rs.15,30,307. Wild life conservation plan has been approved by PCCF / CWLW vide letter dated 23.09.2022. The EAC deliberated on the Wildlife Conservation Plan and found it satisfactory.
- xvi. The Committee deliberated upon the certified compliance report of IRO and action taken report submitted by PP with respect to the partial/non complied conditions alongwith review report of



IRO and is of the opinion that PP shall strictly comply with the all the conditions as per the submitted action plan.

- xvii. The EAC deliberated on the written submission of project proponent and found it satisfactory.
- xviii. 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.
- xix. 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.

7. The EAC (Industry-1 Sector), in its **22<sup>nd</sup> meeting held on January 30 - 31, 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 MSP Steel & Power Ltd** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

**A. Specific conditions:**

- (i) The PP 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.
- (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 human settlement from the project site are Jamgaon – (1.6 km, SSW), Manuapali (0.3 km, West), Saraipali (0.8 km, NW) and Kolaibahal (0.5 km, SE). Project Proponent shall prepare and implement an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include some of these locations in its environmental monitoring programme.
- (v) Kur Nalla (1.2 km, North to South) and Sapnai Nadi (5 km, North-East to South) flows within the study area of 10 km from the project 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 for the existing project of 5505 KLD, fresh water requirement for the expansion project of 3050 KLD, shall be taken from the anicut on Kur nala after obtaining necessary permission from the Competent Authority.
- (vii) As committed, M/s. MSP Steel and Power Limited shall adopt 10 villages namely 1) Jamgaon 2) Manuapali 3) Kolaibahal 4) Jundaih 5) Kukurda 6) Mahapalli 7) Bhuyanpali 8) Behrapali 9) Chhuhipali 10) Koilanga. PP shall formulate robust village Adoption program consisting of need-based community development activities, to develop them into model villages.
- (viii) All the observations stated in the certified compliance report of IRO dated 21.09.2022 and 09.11.2022 shall be complied with as committed. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- (ix) Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.
- (x) 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.
- (xi) Three tier Green Belt shall be developed in a atleast 33% of total project area in a time frame of one 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 Jamgaon, Manuapali, Saraipali and Kolaibahal villages. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- (xii) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- (xiii) Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.
- (xiv) Solid waste utilization
  - PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
  - PP shall recycle/reuse solid waste generated in the plant as far as possible.
  - Used refractories shall be recycled as far as possible.
- (xv) Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.
- (xvi) Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
- (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) Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450 m<sup>3</sup>), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.
- (xix) Secondary fume extraction system shall be installed on converters of Steel Melting Shop.
- (xx) Electric Arc Furnace shall be closed type with 4<sup>th</sup> hole extraction system.
- (xxi) 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.
- (xxii) Dust emission from all the stacks shall be less than 30 mg/Nm<sup>3</sup>.
- (xxiii) Air Cooled condensers shall be used in the captive power plant.
- (xxiv) During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
- (xxv) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
- (xxvi) Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- (xxvii) 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. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
- (xxviii) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- (xxix) As a drainage Nallah passes through the project area, the PP shall implement the Drainage conservation and Soil Erosion control Plans. Grading within the project site shall be planned and implemented such that there shall be negligible impacts on the existing natural drainage system/pattern. Suitable measures should be taken to prevent the washing away of construction materials into the drainage system.
- (xxx) The PP shall implement the best practices of Housekeeping of the project and adjacent areas.
- (xxxi) Adequate number of Mobile Fog / Mist Sprinklers shall be commissioned at conveyors, on bulk raw material storage area/ transfer points like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. This Fog/Mist sprinkling should also be facilitated to the surrounding villages on a periodic basis.
- (xxxii) All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- (xxxiii) 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.

- (xxxiv) 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.
- (xxxv) The recommendations of the approved Site-Specific Wildlife Management 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 04 Nos. 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 recognized 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. Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
- iv. 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.
- v. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.



- vi. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- vii. 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.
- viii. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).
- x. Land-based APC system shall be installed to control coke pushing emissions.
- xi. Monitor CO, HC and O<sub>2</sub> in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
- xii. Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.
- xiii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xiv. 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 vide G.S.R 277 (E) dated 31<sup>st</sup> March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30<sup>th</sup> May 2008 (Sponge Iron) as amended from time to time; 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 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. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. 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.
- v. Tyre washing facilities shall be provided at the entrance of the plant gates.
- vi. Water meters shall be provided at the inlet to all unit processes in the steel plants.

### **IV. Noise monitoring and prevention**

- i. Noise pollution 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. Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
- ii. Restrict Gas flaring to < 1%.
- iii. 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;
- iv. Provide LED lights in their offices and residential areas.
- v. Ensure installation of regenerative/recuperative type burners on all reheating furnaces.

## **VI. Waste management**

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

## **VII. Green Belt**

- i. Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.
- iii. 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 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 monitorable with defined time frames.

## **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. 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 approved 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; 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. 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. 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.

- xi. 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  
Tel: 011-20819346  
Email-rb.lal@nic.in

**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 (C.G.)-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 (C.G.) 492002.
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001



9. The District Collector, Raigarh, Chhattisgarh.
10. The Monitoring Cell, IA Division, Ministry of Environment, Forest and Climate Change, New Delhi.
11. Guard File/Record File/Monitoring File/MoEFCC website/Parivesh Portal



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



Table: Action plan as per MoEF&amp;CC O.M. dated 30/09/2020

S.N	Activity	Action plan	Target and Budget INR (Lakhs)	Yearwise Budget, Rs. Lakhs						
				1	2	3	4	5	6	7
1	Providing Employment to local people in the project	Skill Development of Local Youth and then offering them employment in the project 400 skilled and 400 semi-skilled jobs exist in the expansion project. Willing and employable youths will be identified in consultation with gram panchayat of 10 adopted villages- (Mixed Oriya and Chhattisgarhi speaking people) They will be trained in Raigarh ITI for various trades like electrician, fitter, turner, welder, rigger, Tool and Die maker, Lathe operator, pump operator, Motor driver cum mechanic, painter, and masons, etc. Fees and stipend will be paid by PP. After successful completion of training, the youths will be offered employment in the project	Target 800 youths Stipend: 12000/- annual (96,00000/-) ITI Fee: 30000/- pp for 1 year (240,00000/-) Capex 336 Lakhs	48	48	48	48	48	48	48
2	Compensate The Loss of Livelihood of land losers and landless labourers	Livelihood Support for Poor People Self Help Groups for women SHG will be formed in the 10 adopted villages (2 groups in each village). The members will be training for cooking, gardening & plantation, making clothes & uniforms, sanitary napkins, pickles, papads, dumplings (badi), paper plates, cups and napkins, organic wastes composting. Few of them will be trained in accounts, typing and computers. Each SHG will be provided seed money MSPL will purchase their services and products inside the plant (like running the staff canteen, uniform of staff, gardening & plantation) and in its township.	Target Financial support to 20 Self Help Groups Seed money to each SHG 500000/- CAPEX 100 Lakhs	20	20	20	20	20	-	-
3	Development of Roads	Making paved roads inside villages	Target 3 m wide, 2 km roads inside 10 villages @1500 psqm. Capex: 900 Lakhs CAPEX 900 Lakhs	150	150	150	150	150	150	-



S.N	Activity	Action plan	Target and Budget INR (Lakhs)	Yearwise Budget, Rs. Lakhs						
				1	2	3	4	5	6	7
4	Health Infrastructure Development	Develop Infrastructure and provide Ambulance, and Medical equipment to Government Hospital / Health Centre at Kolaibahal	Targets Building renovation – 10 L Ambulance (2) – 40 L Beds (100) – 10 L O <sub>2</sub> Cylinder (100) – 5 L AC (6) – 30 L Compound wall – 5 L CAPEX: 100 Lakhs	-	-	20	20	20	20	20
5	Improvement of crop yield	Training to Farmers of 10 adopted villages on modern agriculture practices by engaging experts from Raipur Agriculture University. (on improved farming techniques, use of hybrid seeds, use of organic fertilizers and pesticides, modern irrigation techniques, etc to improve their crop yield.	Target 560 poor farmers will be chosen in consultation with village panchayat 50,000/- per farmers CAPEX 280 L	40	40	40	40	40	40	40
6	Education Infrastructure Development	Infrastructure development of Schools in 10 adopted villages.	Targets School Kitchens (10) – 20 L Tables/ Chairs (1000) – 5 L Computers (10) – 5 L Colour printer (10) – 5 L Smart Boards (10) – 10 L Auditorium (10) – 100 L Classroom refurbishment (50) – 25 L Separate toilets for boys & girls (20) – 20 L Develop playgrounds for sports (10) – 20 L LED Lights & Solar Panels – 20 L Rainwater Harvesting (10) – 50 L CAPEX 280 Lakhs	40	40	40	40	40	40	40
7	Community Infrastructure Development	Sewerage & Drainage, MSW Landfill Sites, Toilets with piping and water tanks connected to Tubewell, Charagaha land at 10 adopted villages	Target STP with sewerage – 100 L MSW landfill site (2) – 40 L Toilets (40 Nos) – 60 L Charagaha land – 10 L CAPEX 210 L	30	30	30	30	30	30	30
8	Development of Agriculture Facilities	Water conservation in ponds of the 10 adopted villages (approx. 70 acres), protection of banks, desilting, making facility for bathing, providing pumping arrangement & promoting pisciculture in these ponds for livelihood support of the fisherman community	Target 70 acres x 12 lakhs CAPEX 840 Lakhs	120	120	120	120	120	120	120
9	Plantation in villages	35000 fruit bearing trees in 10 adopted villages and 3800 trees along the PWD road Fencing Organic fertilizers Watering for 3 years	Target CAPEX 38500 x 400/- CAPEX 154 Lakhs	22	22	22	22	22	22	22



**M/s. MSP Steel and Power Limited will adopt the following 10 villages & develop them into Model village. 1) Jamgaon 2) Manuapali 3) Kolaibahal 4) Jundaih 5) Kukurda 6) Mahapalli 7) Bhuyanpali 8) Behrapali 9) Chhuhipali 10) Koilanga.**

S. No	Activity	AMOUNT (Crores Rs)
1	Skill Development for providing employment	3.36
2	Support livelihood of poor people by forming SHG	1.0
3	Development of Roads	9.0
4	Development of Health Infrastructure	1.0
5	Improvement of crop yield	2.8
6	Development of Education Infrastructure	2.8
7	Development of Community Infrastructure	2.1
8	Development of Agriculture Facilities	8.4
9	Plantation in villages and PWD road (No. of Trees 60,000)	1.54
	<b>Total</b>	<b>32 Crores</b>

