



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834004

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Letter No : EC/SEIAA/2022-23/2675/2022/

Ranchi. Date :

To: Shri Jagdish Prasad Agarwalla (Partner),
M/s Abhiyan Coal and Coke LLP,
Village – Amjhore, P.O. - Baliapur,
District : Dhanbad, Pin Code : 828108 (Jharkhand).

Amendment

Sub: Amendment of Environmental Clearance for the project “Amendment in EC for Change in Configuration of Non-Recovery Coke Ovens from 51 Ovens to 23 Ovens and installation of Stamp charging facility in place of Top charging with existing battery with no change in overall production capacity under the EC i.e. Hard Coke 78000 TPA of M/s Abhiyan Coal and Coke LLP, Village : Amjhore, P.O. : Baliapur, P.S. : Baliapur, Distt. : Dhanbad, Jharkhand”, (Proposal No. SIA/JH/IND/293537/2022) - regarding.

Ref: Your online application dated : 22.11.2022.

Sir,

1. This is in continuation of Environmental Clearance (EC) issued by the State Level Environment Impact Assessment Authority (SEIAA), Jharkhand vide letter no.- **EC/SEIAA/2013-14/121/2013/1551**, Ranchi, Date : **01.09.2015** to **M/s OSD Coke Pvt. Ltd.** and further the State Level Environment Impact Assessment Authority (SEIAA), Jharkhand has transferred the Environmental Clearance of the said project vide office letter no. : **100**, Ranchi, Date : **16.04.2022** in favour of “**M/s Abhiyan Coal and Coke LLP, Village : Amjhore, P.O. : Baliapur, P.S. : Baliapur, Distt. : Dhanbad, Jharkhand.**”

2. Further you have applied online application no. : **SIA/JH/IND/293537/2022** requesting for amendment of EC in terms of change in configuration of Non-Recovery Coke Ovens Battery from 51 Ovens to 23 Ovens and installation of Stamp Charging facility in place of Top Charging facility with the existing battery to the above mentioned project proposal.

3. Your request has been examined by the State Level Expert Appraisal Committee (SEAC), Jharkhand in its 99th meeting held on 07th, 08th, 09th, 10th & 11th December, 2022. based on the information furnished/provided and discussion held, the State Level Expert Appraisal Committee, (SEAC) recommended to issue **amendment of earlier Environmental Clearance** issued vide letter no. : **EC/SEIAA/2013-14/121/2013/1551**, Ranchi, Date : **01.09.2015**, as the following:-

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“This is a existing project which has been taken for appraisal on 09.12.2022.

1. Abhiyan Coal and Coke LLP is an Existing Coke Oven Unit having an EC transferred in its name vide letter No. 100, Ranchi, dated 16.04.2022. from SEIAA, Jharkhand for 78000 TPA Hard coke and Coal Washery Plant 250 TPD located at Amjhore, P.O.: Baliapur, Dist.: Dhanbad, Jharkhand. The total plant area is of 1.78 hectares.
2. Abhiyan Coal and Coke LLP had purchased the existing Hard Coke and Coal Washery Plant from M/s. OSD Coke Pvt. Ltd.in 2021.
3. M/s OSD Coke Private Limited has obtained Environment Clearance from State Level Environment Impact Assessment Authority for expansion of its existing plant for Hard Coke production from 128 TPD (38400 TPA) to 260 TPD (78000 TPA) through Non-Recovery type Beehive Coke Ovens and installation of 250 TPD (75000 TPA) Coal Washery vide letter no. EC/SEIAA/2013-14/121/2013/1551, dated: 01.09.2015. The Environment Clearance was transferred by SEIAA, Jharkhand in the name of M/s Abhiyan Coal and Coke LLP vide letter No. 100, Ranchi, dated 16.04.2022.
4. After obtaining EC in 2015, the company, M/s. OSD Coke Pvt. Ltd. had obtained CTE from Jharkhand State Pollution Control Board (JSPCB) vide Letter no.-PC/NOC/DHN/216/D/2575(N), dated: 29.09.2015 and CTO from time to time. The last CTO issued by JSPCB vide Letter no.-JSPCB/HO/RNC/CTO-9718665/2021/502, dated: 25.03.2021 is valid up to 31.03.2025.
5. The present proposal is for Amendment in the Environment Clearance for Change in Configuration of Non-Recovery Coke Ovens Battery from 51 Ovens to 23 Ovens and installation of Stamp Charging facility in place of Top Charging facility with the existing battery, with no change in overall production capacity under the EC i.e. Hard Coke 78,000 TPA. As per EC 51 Ovens are proposed. 42 ovens at present, will be dismantled and new 23 ovens (capacity of each Oven 22.604 Ton Coke Production) with stamp charging with pusher system and new down draft ovens will be installed in two blocks i.e. 10 Ovens in one block and 13 Ovens in other block. The amendment sought is for change in number of Ovens and for installation of Stamp Charging facility (which is more environment friendly in comparison to Top Charging facility within the capacity of the hard coke production (78,000 TPA) under the Environmental Clearance.
6. No Coal Washery has yet been installed and the 250 TPD coal washery is planned for installation under the EC in future.
7. Abhiyan Coal and Coke LLP has made an online application for EC Amendment vide proposal no. IA/JH/IND/293537/2022 dated 02.11.2022. The proposed project activity is listed at S. No. 4(b)(i), Coke Oven Plants and 2(a) Coal Washeries, under Category ‘B’, as per the EIA Notification, 2006 and is being appraised by State Expert Appraisal Committee, Jharkhand.

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8. Environmental site settings:

Sl. No.	Particulars	Details			Remarks
i	Total land	1.78 ha [Private: 1.78 ha: Govt: 0 ha: Agriculture: 0 ha and Grazing land: 0 ha.]			Land use: Industrial No change in land area after Proposed Amendment
ii	Khata no./Plot No.	Khata No.	Plot No.		--
		2	1788.3784		
		40	1789.1655.1803		
		48	1809.1799		
		49	1801		
		53	1800.1814		
		75	1806		
		94	1790.1791.1802		
		134	1795.1805.1807		
		189	1658.1665		
		238	1777		
		275	1787.1788.1984		
		276	1824		
		355	1815.1816		
		383	1985		
		399	1812.1813.1820.1827.1835		
		232	1869.1870.1871		
iii	Existence of habitation & involvement of R&R, if any.	No existence of habitation & involvement of R&R			--
iv	Latitude and Longitude of the project site	Point	Latitude	Longitude	--
		1	23° 43' 44.585" N	86° 30' 4.080" E	
		2	23° 43' 42.294" N	86° 30' 4.345" E	
		3	23° 43' 42.558" N	86° 30' 3.716" E	
		4	23° 43' 41.822" N	86° 30' 4.114" E	
		5	23° 43' 40.477" N	86° 30' 3.872" E	
		6	23° 43' 40.208" N	86° 30' 2.949" E	
		7	23° 43' 40.524" N	86° 29' 59.594" E	
		8	23° 43' 40.426" N	86° 29' 58.478" E	

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Sl. No.	Particulars	Details				Remarks
		9	23° 43' 41.477" N	86° 29' 58.716" E		
		10	23° 43' 44.808" N	86° 29' 58.342" E		
		11	23° 43' 44.769" N	86° 30' 0.380" E		
		12	23° 43' 43.949" N	86° 30' 1.296" E		
		13	23° 43' 43.008" N	86° 30' 2.643" E		
		14	23° 43' 44.764" N	86° 30' 3.193" E		
v	Elevation of the project site	193 meters amsl				AMSL
vi	Involvement of Forest land if any.	No involvement of Forest Land				--
vii	Water body exists within the project site as well as study area	Project site: No water body within the plant site area Study area: Ghi Nadi is at 2.1 km in NE direction. Damodar River is at 9.5 km in South Direction.				Distance and direction are w.r.t the project site
viii	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/tiger reserve/elephant reserve etc. if any within the study area	Study area: No ESZ/ESA/national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve within the plant site area.				Distance and direction are w.r.t the project site

The Production data after Amendment sought is given below:

Sl. No.	Units	Production as per EC dated 01.09.2015	Production as per CTO dated 25.03.2021	Final Production after Amendment	Remarks
1	Non-Recovery Coke Ovens	51 Ovens 78,000 TPA Hard Coke	42 Ovens 42,300 TPA Hard Coke	23 Ovens 78,000 TPA Hard Coke	Stamp charging with pusher System -and new down draft ovens will be installed in the proposed amendment.

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Sl. No.	Units	Production as per EC dated 01.09.2015	Production as per CTO dated 25.03.2021	Final Production after Amendment	Remarks
2	Coal Washery	250 TPD (75000 TPA)	---	250 TPD (75000 TPA)	Washery is not yet installed and is planned for future – no change proposed

9. The raw material shall change after the proposed amendment and the details are provided below:

Raw Material	Maximum Quantity as per EC dated 01.09.2015	Maximum Quantity after proposed change in Configuration in TPA	Source	Transportation details	Remark
Low ash Coal (Coke Oven)	102.000	102.000	BCCL, CCL, NEC, ECL & Local Market	30-150 km by road	No change in coal input as per EC
Coal (Coal Washery)	75.000	75.000	BCCL, CCL, NEC, ECL & Local Market	30-150 km by road	No change in coal input as per EC (Washery not yet installed)

10. The Estimated make-up water requirement as per the EC is 73 KLD. Water requirement after the proposed change in configuration will be 73 KLD only, thus no change in water requirement is envisaged.

11. The power required for the plant at present is 250 MVA and the power required after the proposed amendment will be 500 MVA. The Power will be sourced from JBVNL (Jharkhand Bijli Vitran Nigam Limited)

12. The Total cost estimated for the plant in EC dated 01.09.2015 was Rs. 2.59 Crores. and the project cost after proposed amendment is envisaged as Rs. 14.9 Crores.

13. The employment generation after the proposed amendment will remain same as existing i.e.

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14. The proposed change in technology has following beneficial features:

- By decreasing the number of ovens, the overall emissions from the hard coke unit are reduced due to less material handling steps.
- Fugitive emissions like – leaking doors), and will be reduced due to decrease in number of doors and offsets.
- The emissions from the stack will reduce by use of latest technology down-draft system with circulating flue for maximum combustion of VM and reduction in unburnt carbon.
- The fugitive emissions from coal handling and charging will reduced by use of wet cake stamp charging system, as compared to earlier proposed top charging system.
- The new pusher type coke extraction & charging system from the ovens also results in reduced fugitive emissions due to complete extraction in less duration.
- During the carbonization process volatile matters are evolved which is burnt completely inside the well-designed coke oven.
- The quality of product is also improved due to proper carbonization resulting from combustion of all the volatile matters

15. AAQ Model was run to predict the change in impact due to installation of 23 Coke Ovens in place of 51 Coke Ovens and compare the values, under controlled conditions. There is a decrease in GLC at all locations for all pollutants. Thus, the change in configuration of the coke ovens with Down draft ovens with Stamp Charging and Pusher type system – a more eco-friendly technology, will have a positive impact by reducing the air emissions during the operation phase.

16. Pollution Load as compared to previous EC vis-à-vis proposed amendment for the Hard Coke unit -78000 TPA is presented below:

Specification	As per previous EC	After Amendment proposed	Remarks
Requirements/consumption:			
Technology	Non-Recovery type Top charging	Non- Recovery type with Stamp charging Pusher system New down draft recirculating flue tunnel To chimney	Improved technology with: Less Stack emission & Less fugitive emissions
Production capacity	Hard coke – 78000 TPA	Hard coke – 78000 TPA	No Change
Raw material requirement	Coking Coal – 102000 TPA	Coking Coal – 102000 TPA	No Change
Water requirement	Coke Ovens – 46 KLD	Coke Ovens – 46 KLD	No Change
Manpower	50	50	No change
Waste Generation:			

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Solid Waste	Coke dust slurry from quenching pit (settling) – 1200 TPA	Coke dust slurry from quenching pit (settling) – 1200 TPA	No Change
Hazardous Waste	Used oil - 100 lit/yr	Used oil - 100 lit/yr	No change
Wastewater	No discharge. Industrial water kept in closed circuit. Blowdown will be used for dust suppression / horticulture. Domestic wastewater routed to septic-tank & soak pit.	No discharge. Industrial water kept in closed circuit. Blowdown will be used for dust suppression / horticulture. Domestic wastewater routed to septic-tank & soak pit.	No change
Emissions:			
Stack Height	45.0 m	45.0 m	No change.
Emission Rate (from Stack)	PM – 4.1503 g/s SOx – 1.780 g/s NOx – 0.0505 g/s	PM – 1.4728 g/s SOx – 0.9611 g/s NOx – 0.0342 g/s	But decrease in emission due to Down-draft Tunnel system, moisture in the stamp charged coal and complete combustion of VM.
There is no change in proposal of the Coal washery (250 TPD) as granted in the previous EC.			

17. There is no Court case/show cause/direction or violation under EIA, 2006 related to the project under consideration.

STATUTORY CLEARANCES:

1	CO	:	The CO, Baliapur (Dhanbad) vide letter no. 770, dated 06.10.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatyan & Register II.
2	DFO Wild Life	:	DFO, Wildlife Division, Hazaribag vide letter no. 2121, dated 02.12.2021 certified that the said project is outside of Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
3	DFO Forest Distance	:	DFO, Dhanbad Forest Division vide letter no. 2204, dated 02.12.2021 certified that the distance of reserved / protected forest is 800 m from proposed project site.
4	Previous EC	:	Previous EC issued by SEIAA vide letter no. : EC/SEIAA/2013-14/121/2013/1542 dated 01.09.2015.
5	Transfer of EC	:	Transfer of EC from the project "M/s OSD Coke Pvt. Ltd. (Amjhore Unit) to M/s Abhiyan Coal & Coke LLP, Dhanbad" vide letter no. : 100, dated 16.04.2022

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6	Consent to Operate (CTO)	: i. CTO granted by JSPCB vide Ref. no. : B-2126, dated 20.03.2013. ii. CTO granted by JSPCB vide Memo no. : D-873 (C), dated 30.04.2015. iii. CTO granted by JSPCB vide Ref. no. : JSPCB/HO/RNC/CTO-7516755/2020/1093, dated 08.07.2020. iv. CTO granted by JSPCB vide Ref. no. : JSPCB/HO/RNC/CTO-9718665/2021/502, dated 25.03.2021. v. CTO granted by JSPCB vide Ref. no. : JSPCB/HO/RNC/CTO-11382306/2022/657, dated 21.05.2022.
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Based on the facts mentioned above the committee recommends that earlier issued Environmental Clearance should be amended to the following extent alongwith rest other terms & conditions mentioned in previous Environmental Clearance letter no. EC/SEIAA/2013-14/121/2013/1551, Ranchi, Date : 01.09.2015 shall remain the same.”

4. The recommendation of SEAC, Jharkhand in this regard has been examined by the State Level Environment Impact Assessment Authority, Jharkhand in its 100th meeting held on 21st and 22nd December, 2022 and decided **amendment of Environmental Clearance** to the said project proposal as recommended by SEAC alongwith all other terms and conditions of earlier EC letter no. **EC/SEIAA/2013-14/121/2013/1551**, Ranchi, Date : **01.09.2015** shall remain the same.

5. This issued with the approval of SEIAA, Jharkhand..

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No : **EC/SEIAA/2022-23/2675/2022/3544**

Ranchi, Date : *29/12/2022*

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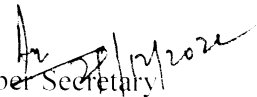
1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, Dhanbad, District- Dhanbad, Jharkhand.
3. Divisional Forest Officer, Dhanbad Forest Division, Dhanbad, Jharkhand.
4. Divisional Forest Officer, Hazaribagh Wildlife Division, Hazaribagh, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.

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6. Integrated Regional Office, Ranchi, Ministry of Environment, Forest and Climate Change, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand