



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-330986
Valid upto: 30/06/2027

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED Industry Scale: LARGE

(This document contains 7 pages including annexure & excluding additional conditions)

Combined Consent Order No. AW-330986 **PCB ID:** 10454 **Date:** 21/04/2022

Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act , 1974 and emission under the Air (Prevention and Control of Pollution) Act , 1981

- Ref: 1. Application filed by the applicant/organization on 15/02/2022
2. Inspection of the Industry/organization/by RO, on 17/02/2022
3. Proceedings of the ECM dated 30/03/2022 , held on 28/03/2022

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under and authorized the Occupier to operate /carryout industry/activity & to make discharge of the effluents & emissions confirming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry: Ms. Janki Corp Limited
Address: Sy. No. 97, 100 & 225, Sidiginamola Village, Ballari Taluk & District
Industrial Area: Not In I.A, Sidaginamola,
Taluk: Bellary, District: Bellary

CONDITIONS:

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Agriculture	50.000	0.000	Reused water is used for Green Belt Development purposes.
2	Boiler Feed	100.000	40.000	Water is used in Captive Power Plant. The boiler blowdown is used for wetting of boiler ash, flyash, bottom ash and for dust suppression along haulage roads.
3	Cooling Water	930.000	880.000	Water is used for CPP for cooling purpose and Recycled back into process. Remaining 50 KLD will be used as make up water.
4	Domestic Purpose	60.000	48.000	The domestic sewage generated will be treated in STP of capacity 5 MLD.
5	Others	500.000	475.000	Effluent generated (475 KLD) from Iron Ore Beneficiation Plant shall be recycled for use in process. Remaining 25 KLD will be used for makeup water.
6	Others	600.000	570.000	Water (570 KLD) used in DRI Plant for cooling purpose shall be recycled for use in process. Remaining 30 KLD will be used as make up water.
7	Others	250.000	15.000	Phenolic water generated from CGP (Pellet Plant) shall be used in the ABC of Sponge Iron Plants.
8	Others	120.000	48.000	Effluent from DM water plant shall be treated in ETP of capacity 120 KLD and treated effluent shall be used for gardening within the premises.

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.		



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The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty/Month	Unit
1	captive power plant (whrb & fbc) - 15 mw	15.0000	MWH
2	dolochar(by products) - 40,000 tpa	3333.0000	TON
3	iron ore beneficiation plant - 6,00,000 tpa	50000.0000	TON
4	pelletisation plant - 6,00,000 tpa	50000.0000	TON
5	sponge iron - 1,80,000 tpa (6 x 100 tpd)	15000.0000	TON

This consent is valid for the period from 01/07/2022 **to** 30/06/2027

To,

Ms. Janki Corp Limited
#17/95, Vishal Nagar,
Ananthapur Road, Bellary -
583102.

COPY TO:

The Environmental Officer, KSPCB, Regional Office Bellary for information and necessary action.

2. Master Register.
3. Case file.

Consent Fee paid : Rs. 7300000

SCHEDULE

TERMS AND CONDITIONS

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.
- 2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.
- 2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.
- 3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall confirm to the standards stipulated by the Board in Annexure-I
- 3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.
4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.
5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.
6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:
8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.



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B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C. MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

D. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.

E. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and during operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

- a) In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.
- b) In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.
- c) In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.
- d) In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

- * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- * A “decibel” is a unit in which noise is measured.
- * “A”, in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- * Leq: It is an energy mean of the noise level over a specified period.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundry Movement) Rules 2016.



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G. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.
7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.
10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
11. The applicant shall develop and maintain adequate green belt all around the periphery.
12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
13. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
15. The applicant shall display flow diagram of the pollution control system near the pollution control system/s.

NOTE:

The Conditions A {2a, 3b}, E {b,c,d} mentioned in the schedule are not applicable.

Additional Conditions:

1) This CFO is issued after approval of Chairman & MS, for operation of Sponge Iron Plant - 6 x 100 TPD, Pelletisation Plant - 6,00,000 TPA, Iron Ore Beneficiation Plant - 6,00,000 TPA, Dolochar - 40,000 TPA and Captive Power Plant - 15 MW (WHRB) under Water and Air Acts for the period 01.07.2022 to 30.06.2027 with conditions. 2) Applicant shall comply with additional conditions as per Annexures-I, II, IIB & III attached herewith.



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Chimney No.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	Any Other....	Coal Ground Hopper	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
2	Any Other....	Coal Transfer House	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
3	Any Other....	Iron Ore Screen house	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
4	Any Other....	Electrostatic Tar Precipitator for CGP	0	PM(mg/NM3), SO2 (PPM), NOx(PPM)	50,50,50	PM	N.A	Before commissioning.
5	D.G. Sets	D G Set-750 KVA	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	DIE	AEC	Before commissioning.
6	Any Other....	Coal Beneficiation Circuit	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
7	Any Other....	Transfer Tower	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
8	Any Other....	Coal Screen House	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
9	Any Other....	Coal Injector - 6	15	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
10	Any Other....	Coal Injector - 5	15	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
11	Any Other....	Coal Injector - 4	15	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
12	Any Other....	Coal Injector - 3	15	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
13	Any Other....	Coal Injector - 2	15	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
14	Any Other....	Product Separation Building - 2	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
15	Any Other....	Intermediate Bin - 2	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
16	Kilns	Rotary Kilns - 5 & 6 (Common chimney with 2 No's ESP and WHRB)	60	PM(mg/NM3), SO2 (PPM), NOx(PPM)	100,50,50	PM	ESP	Before commissioning.



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17	Kilns	Rotary Kilns - 3 & 4 (Common chimney with 2 No's ESP and WHRB)	60	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	ESP	Before commissioning.
18	Any Other....	Iron Ore Grinding Mill	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
19	Cooler Exit	Cooler Discharge - 3 & 4	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
20	D.G. Sets	DG Set - 180 KVA	10	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	DIE	AEC	Before commissioning.
21	Cooler Exit	Cooler Discharge - 5 & 6	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
22	Cooler Exit	Cooler Discharge - 1 & 2	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
23	Any Other....	Feed to Drum Scrubber	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
24	Any Other....	Screen house	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
25	D.G. Sets	DG Set-500 KVA X 2 No's	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	DIE	AEC	Before commissioning.
26	D.G. Sets	D.G.Sets - 600-KVA X 3 No's	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	DIE	AEC	Before commissioning.
27	Boiler	Air Fluidized bed combustion Boiler-35 TPH (AFBC)	45	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	COA	ESP	Before commissioning.
28	Kilns	Rotary Kilns - 1 & 2 (Common chimney with 2 No's ESP and WHRB)	60	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	ESP	Before commissioning.
29	Any Other....	Proportion Building	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
30	Any Other....	IOGM Discharge (Bag filters - 2 No's)	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
31	Coal Mill	Coal Mill	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
32	Gas Exits	Flaring Stack for CGP - 4 No's	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	50,50,50	PM	N.A	Before commissioning.
33	Any Other....	Coal Injector - 1	15	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
34	Any Other....	Intermediate Bin - 1	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.



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35	Any Other....	Stack for pellet plant	72	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	ESP	Before commissioning.
36	Any Other....	Product Separation Building - 1	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
37	Any Other....	Junction House	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
38	Cooler Exit	Crusher House	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
39	Any Other....	Mixer House	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.
40	Any Other....	Wet Mill Discharge	30	PM(mg/NM3),SO2 (PPM),NOx(PPM)	100,50,50	PM	FIL	Before commissioning.

Note:

FIL : Bag Filter

N.A : Not Applicable

AEC : Accoustic Enclosures

ESP : E.S.P

FIL : Bag Filter

ESP : E.S.P

FIL : Bag Filter

N.A : Not Applicable

ESP : E.S.P

Note:

1. The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
2. The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection)Rules.
3. There shall be no smell or odour nuisance from the industry.

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

2. The diameter of the sampling port should not be less than 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

Signature valid

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Date: 2022.04.27 17:32:26
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ADDITIONAL CONDITIONS STIPULATED FOR CFO ISSUED TO JANKI CORP LIMITED, BELLARI

- I. Applicant shall treat the domestic sewage in the existing 5 MLD STP and treated sewage effluent shall meet the prescribed standards as per **ANNEXURE-I** below:

Sl. No.	Parameter	Parameters Limit
1	pH	6.5 – 9.0
2	BOD, 3 days at 27°C (mg/l, Max)	<= 20
3	Suspended Solids (mg/l)	<= 30
4	Oil and Grease (mg/l)	<= 10

Note : i). The industry shall monitor the quality of treated sewage from sewage treatment plant once in a month and submit monitoring reports to the Board.

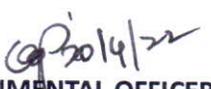
ii). The applicant shall maintain log book for operation and maintenance of STP.

II. The applicant shall comply the standards for sponge iron units as per NOTIFICATION NO.GSR 414(E), DATED 30.5.2008, W.E.F 30.5.2008,as below.

A. Emission Standards*			
(Rotary Kiln)	Particulate Matter	Fuel Type	Limiting value for concentration
		Coal	100 mg/NM ³
		Gas	50 mg/NM ³
	Carbon Monoxide (Vol./Vol.)	Coal/Gas	1%
	Stack Height** (Minimum)	Coal/Gas	30.0 m
	Note:		
	* Emission shall be normalized at 12% CO ₂ in stack emission.		
	** Stack height shall be calculated as $H=14.0Q^{0.3}$ where Q is emission of Sulphur Dioxide (SO ₂) in Kg/Hr i.e.		
	SO ₂ (Kg/Hr)	Height (in metre)	
	Upto 12.68	30	
12.69 - 33.08	40		
33.09 - 69.06	50		
69.07 - 127.80	60		
127.81 - 213.63	70		
De-Dusting Unit		Existing Unit	New Unit
	Particulate Matter (mg/m ³)	100	50
Note: (i) Stack attached to de-dusting unit shall have minimum height of 30.0 metre.			
(ii) If de-dusting unit is connected to After Burner Chamber (ABC), emission shall be emitted through common stack (minimum height 30.0 metre) having separate arrangements for emission monitoring for de-dusting unit.			

B. Fugitive Emission Standards		
Rotary Kiln/ De-dusting Unit	Particulate matter	Existing Unit New Unit
	($\mu\text{g}/\text{m}^3$)	3000 2000
	Note:	
	(i) The existing industry shall comply with a standard of 2000 $\mu\text{g}/\text{m}^3$ after one year from the date of Notification.	
	(ii) Fugitive emission shall be monitored at a distance 10.0 metre from the source of fugitive emission as per following:	
	Area	Monitoring Location
	Raw material handling area	Wagon tippler, Screen area, Transfer points, Stock bin area.
	Crusher area	Crushing plant, vibrating screen, transfer points.
	Raw material feed area	Feeder area, Mixing area, Transfer points.
	Cooler discharge area	Over size discharge area, Transfer points.
Product processing area	Intermediate stock bin area, Screening plant, Magnetic separation unit, Transfer points, Over size discharge area, Product separation area, Bagging area.	
Other areas	As specified by State Pollution Control Board/Pollution Control Committee.	
C. Effluent Standards		
pH	5.5 - 9.0	
Total Suspended Solids	100 mg/l	
Oil & Grease	10 mg/l	
Chemical Oxygen Demand	250 mg/l	
Note:	i) All efforts shall be made to reuse and re-circulate water and maintain " Zero discharge ".	
	ii) Storm water drain shall be provided within the premises of the industry so as to avoid mixing with effluent.	

Applicant shall treat the trade effluent generated from the DM water plant to the standards as above.


 SENIOR ENVIRONMENTAL OFFICER
 MINES AND METALLURGICAL SECTION


 20/4

III. The applicant shall comply with the conditions laid down in Annexure II at all times. The applicant shall monitor the ambient air quality and the same shall meet the prescribed standards as per ANNEXURE – IIB below:

ANNEXURE – IIB
NATIONAL AMBIENT AIR QUALITY STANDARDS

Pollutant	Time Weighted Average	Concentration in Ambient Air		Method of Measurement
		Industrial, Residential, Rural & other Areas	Ecologically sensitive area (Notified by Central Government)	
Sulphur Dioxide (SO ₂)	Annual* 24 Hours**	50 µg/m ³ 80 µg/m ³	20 µg/m ³ 80 µg/m ³	- Improved West and Gacke method. - Ultraviolet fluorescence.
Nitrogen Dioxide (NO ₂)	Annual* 24 Hours**	40 µg/m ³ 80 µg/m ³	30 µg/m ³ 80 µg/m ³	- Modified Jacob & Hochheiser (Na-Arsenite) Method. - Chemiluminescence.
Particulate Matter (Size less than 10 µm) or PM ₁₀	Annual* 24 Hours**	60 µg/m ³ 100 µg/m ³	60 µg/m ³ 100 µg/m ³	- Gravimetric. - TOEM. - Beta attenuation.
Particulate Matter (Size less than 2.5 µm) or PM _{2.5}	Annual* 24 Hours**	40 µg/m ³ 60 µg/m ³	40 µg/m ³ 60 µg/m ³	- Gravimetric. - TOEM. - Beta attenuation.

* Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval.

** 24 hourly/8 hourly/1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note:

Whenever & wherever monitoring results on two consecutive days of monitoring exceeds the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

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IV. Applicant shall comply with conditions as per Board Office Memo No.1330 dt: 27.05.2019 as detailed below in ANNEXURE- III.

ANNEXURE-III

1. To restrict the storage of raw materials (iron ore, coal, iron ore fines etc) immediately within the height of the compound wall to avoid carryout of fine dust from the material storage and to provide the required tarpaulin cover as a short term measure (or) to erect the barricade on all the three sides of the compound wall. As a long term measure, construct a required storage sheds with three sides cover for coal, iron ore and its fines, products and by-products.
2. To provide belt curtain to restrict the cross flow of air to the coal storage shed and to provide the tarpaulin cover to all open storage of materials.
3. To clear the iron ore fines stored up to the edge of compound wall for taking up plantation around the unit with available local and mix species scientifically and to adopt the drip irrigation to conserve the water and improve the survival rate of the saplings.
4. All the internal roads used for carrying the raw materials, product and by-product shall be asphalted Or to be concreted to control the fugitive dust during the heavy vehicle movement, as well as the approach road from Highway to the unit.
5. To clean all the internal roads manually or by vacuum machine at regular interval to avoid accumulation of material spillage / dust.
6. To store the heavy solid lumps from kiln accretions properly at a designated place and explore the possibility of disposal.
7. The raw material charging point / shed to the crusher conveyors need to be extended further on all three sides with dry fagging system at the material charging point to improve the control of fugitive emission. Also to improve / provide the dry fog system at all fugitive emission sources.
8. To provide and extend the chute to reduce the free fall height (below the level of nearby compound wall) also to provide the permanent shed covering three sides to arrest the carryover of by product dusts.
9. To replace all leaking slip seal (by metallic) segments at kiln inlet / outlet, cooler inlet /outlet and Pre heater inlet / outlet with new seal to arrest the fugitive emission.
10. To provide enclosures to the entire belt conveyor system at the crusher area and also to provide dust collection system (bag filter) at all transfer points.
11. To explore the possibility of hood system with dust collector to control the dust generated at the cooler discharge point or provide the dry fog system for the same.
12. To adopt the closed loop system for handling of ESP fine dust, instead of present unscientific handling system of collection in a pit with water sprinkler control. Also, to connect the DSC water to the re-circulation tank with settling chamber for removal of dust before the recirculation tank.
13. To install online continuous emission monitoring system for source emission and for the ambient in respect of particulate matter.
14. The applicant shall submit half yearly consent compliance reports (April to September in the month of December and October to March in the month of June) to the Board.
15. Environmental monitoring of AAQ, Surface Water, Ground Water, Soil, Noise & Meteorological data to be monitored as per the EIA/EMP submitted to obtain Environmental Clearance.

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