STATE POLLUTION CONTROL BOARD, ODISHA

(DEPT., OF FOREST ENVIRONMENT & CLIMATE CHANGE, GOVT. OF ODISHA)
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CONSENT ORDER

No. 3615 /IND-I-CON-4650 Dt. 19-03-2026 /

Speed Post/E-mail

Sub: Consent for Existing / New operation of the plant under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981.

Ref : Your online application ID No 6958296, Dt. 29.11.2025 and submission of online document on 18.12.2025 & 04.03.2026.

The Consent is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed there under to:

Name of the Industry: **M/s. Bhusan Power & Steel Ltd.,**

Name of the Occupier & Designation: **Shri Anil Kumar Singh, President and Whole Time Director**

Address: **At- Thelkoloi, P.O.– Lapanga, Rengali, Dist - Sambalpur–768 232.**

This consent order is valid for the period from **01.04.2026 to 31.03.2028.**

This consent order is valid for the product quantity, specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.

A. Details of Products Manufactured:

Sl. No.	Product/Facility	Quantity
01.	Sponge Iron (DRI Kilns-I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII-12×500 TPD)	2.0 MTPA
02.	Coal Washeries (1.0 MTPA + 1×3.5 MTPA)	4.5 MTPA
03.	Steel Melting Shop (SMS-I) & Casting Unit i) Electric Arc Furnace ii) Ladle Furnace iii) Billet Caster iv) Single continuous thin Slab Caster v) VD / AOD	 4 x 105 T 4 x 105 T 1 × 4 Strand 2 × 1 Strand 2 x 100 T
04.	Steel Melting Shop (SMS-2) & Casting Unit i) Electric Arc Furnace (EAF) ii) Zero Power Furnace (ZPF) iii) Ladle Furnace iv) Billet Caster v) VD / AOD	 1 x 75 T 1 x 75 T 2 x 75 T 1 x 3 Strand + 1 x 4 Strand 2 x 75 T

05.	Captive Power Plants (CPP) (a) 3×130 MW (4x210 TPH Boiler + 1x390 TPH Boiler + 1x340 TPH Boiler) (b) 2×8 MW (WRHB of Coke Oven) 1x75 TPH AFBC Boiler + 150 TPH AFBC Boiler (c) 250 TPH CFBC Boiler (using Coal and MBF Gas)	506 MW
06.	Blast Furnace –I (1×1008 m^3)	0.80 Million Tons / Annum
07.	Blast Furnace-II (1 x 2015m^3)	1.55 million Tons/Annum
08.	Sinter Plant – I & II	1×105 m^2 & 1 x 450 m^2
09.	Coke Oven Plant-1 (Non-Recovery Type)	0.45 MTPA
10.	Coke Oven Plant -2 (Recovery Type)	1.2 MTPA
11.	Oxygen Plants	1× 400 TPD + 1×660 TPD+ 3×200 TPD (VPSA) + 1000 TPD
12.	CSP (HRM)	4.0 MTPA
13.	Lime & Dolo Plant	3 × 300 TPD + 3 x 600 TPD
14.	Wire / Rod Mill Complex (WRM)	0.6 MTPA
	Wire / Rod Mill and Heavy Bar	0.6 MTPA
15.	Pipe & Tube Mill	0.8 MTPA
16.	Iron ore beneficiation plant	1200 TPH
17.	Pellet Plant	4.0 MTPA
18.	Deep Bed Pest Thickener	200 TPH
19.	Slag Processing Unit	300 TPH
20.	Procurement of Low Sulphur Pet coke (Imported) required as raw material in the Recovery type Coke oven (Coke Oven-2) for coke making	@12600T/Month Or @151200 T/Annum
21.	Cold Rolling Mill (CRM)	2.5 MTPA
	a) Galvanizing	0.70 MTPA
	b) Glavolume Unit	0.60 MTPA
	c) Colour Coating Mill	0.70 MTPA

B. Discharge permitted through the following outlet subject to the standard:

Outlet No.	Description of outlet	Point of discharge	Quantity of discharge	Prescribed standard							
				pH	SS (mg/l)	TDS (mg/l)	COD (mg/l)	BOD (mg/l)	O&G (mg/l)	Fe (mg/l)	FC MPN/ 100ml
1	Domestic effluent of the township treated in STP	No discharge. Treated water shall be used for plantation purposes	No discharge	6.5 to 9.0	100	--	--	30	--	---	1000
2.	Domestic wastewater (plant)	Soak pit via septic tank	No discharge	--	--	--	--	--	--	--	--
3	Cooling water	To be completely recycled	No discharge	--	--	--	--	--	--	--	--
4	Washery effluent	To be completely recycled	No discharge	--	--	--	--	--	--	--	--
5.	Effluent from Iron ore beneficiation plant	To be completely recycled	No discharge	--	--	--	--	--	--	--	--
6	Treated storm water drain outlet near plaza gate (Outlet No.1) Outlet of WTP-III	Bheden river after utilizing to the maximum extent (Monsoon period)	Discharge only in monsoon.	6.5 to 9.0	100	2100	250	--	10	1.0	--
7.	Treated surface runoff near Thelkoli High school culvert SH-10 (Outlet No.2) Outlet of WTP-I & II	Local nallah leading to river Bheden after utilizing to the maximum extent (Monsoon period)	Discharge only in monsoon	6.5 to 9.0	100	2100	250	--	10	1.0	--
8.	BOD plant outlet	No discharge to outside. To be reused completely.	--	pH	TSS (mg/l)	Phenol(mg/l)	Cyanide (mg/l)	BOD (mg/l)	COD (mg/l)		
				5.5-9.0	100	1.0	0.2	30	250		
				NH3 N2 (mg/l)	O &G (mg/l)	TDS (mg/l)	Iron (as Fe) (mg/l)	Total Chromium (mg/l)			
				50	10	2100	3.0	2.0			

C. Emission permitted through the following stack subject to the prescribed standard :

Chimney / Stack No.	Description of Stack	Stack height (m)	Quantity of emission (Nm^3/hr)	Prescribed Standard mg/Nm^3	
				PM mg/Nm^3	CO (vol/vol)
1.	**DRI Kilns** Stack attached to				
	(i) De-dusting ESP of Kiln –I & II	45	350000	50	---
	(ii) De-dusting ESP of Kiln –III &IV	45	350000	50	
	(iii) De-dusting ESP of Kiln-V & VI	45	350000	50	
	(iv) De-dusting ESP of Kiln – VII & VIII	45	350000	50	
	(v) De-dusting ESP of Kiln – IX & X	45	350000	50	
	(vi) De-dusting ESP of kiln –XI & XII	45	350000	50	
2.	**Blast Furnace Complex -1** **Stack attached to**				
	(i) GCP of Blast furnace	30	180000	50	
	(ii) Bag filter of cast house	35	220000	50	
	(iii) Bag house of Gas cleaning stack	45	108000	50	
3	**Blast Furnace Complex -2** **Stack attached to**				
	(i) RMHS and Stock House	30	6,10,000	50	
	(ii) Cast House	30	8,50,000	50	
4.	**Sinter Plant - 1** Stack attached to				
	(i) ESP of Charging Stack	60	570000	50	
	(ii) ESP of Discharging Stack	40	450000	50	
	(iii) Bag filter of De-dusting Stack	40	190000	50	
5.	**Sinter Plant - 2**				
	Stack attached to ESP of Sinter Process	120	700000	50	
	Stack attached to ESP of Sinter Plant De-dusting	60	600000	50	
6.	**SMS-1 Area** Stack Attached to				
	(i) Bag filter of EAF -I (FTP-1)	60	13,95,000	50	
	(ii) Bag filter of EAF -II (FTP-2)	50	14,31,000	50	
	(iii) Bag filter of EAF -III (FTP-3)	50	14,31,000	50	
	(iv) Bag filter of EAF -IV (FTP-4)	60	13,95,000	50	
	(v) Bag filter for secondary emission of EAF-I & II (FTP-5)	50	15,00,000	50	
	(vi) Bag filter for secondary emission of EAF-III & IV (FTP-6)	50	15,00,000	50	
7.	**SMS-2 Area** Stack Attached				
	(i) FTP of EAF and LF	50	13,64,000	50	
	(ii) ZPF FTP	60	10,00,000	30	
	(iii) ZPF Raw Material Handling	40	5,50,000	30	

8.	**CSP Plant** Bag filter stack attached to Tunnel Furnace (Line A Process Stack-I) Tunnel Furnace (Line A Process Stack-II) Tunnel Furnace (Line A Process Stack-III) Tunnel Furnace (Line B Process Stack-I) Tunnel Furnace (Line B Process Stack-II) Tunnel Furnace (Line B Process Stack-III)	 60 60 60 60 60 60	 34,800 23,600 9,700 34,800 23,600 9,700	 50 50 50 50 50 50
9.	**Raw Material Preparation Plant** Bag filter stack attached to RMP Stack –I	 30	 50000	 50
10.	**Lime Dolo Plant (3 x 300 TPD)** Bag filter stack attached to Lime Plant –Kiln –I Lime Plant – Kiln –II Dolo Plant	 50 50 50	 50,000 50,000 50,000	 50 50 50
	Lime Dolo Plant (3 x 600 TPD) **Stack attached to lime plant of**			
	Process Bag Filter LCP – 4	49	1,20,000	50
	Dedusting bag filter 1	35	27,800	50
	Dedusting bag filter 2	35	58,400	50
	Dedusting bag filter 3	38	46,400	50
	Dedusting bag filter 4	35	8,000	50
11.	Process Bag Filter LCP - 5	40	1,20,000	30
12.	Process bag filter LCP – 6	49	1,20,000	30
13.	**Coke Oven Plant-1 (non-recovery type)** Stack –I (Emergency Stack) Stack –II (Emergency Stack) Stack –III (Emergency Stack) Stack –IV (Emergency Stack) WHRB-I & II WHRB-III & IV	 70 70 70 70 70 70	 81,535 81,535 81,535 81,535 163070 163070	 50 50 50 50 50 50

14.	**Coke Oven -2 (Recovery type)**			
	i. Process stack	144	1,50,000	50
	ii. Pushing Emission Control System	45	5,04,000	50
	iii. DE system for pre crusher building	30	28,000	30
	iv. DE System for blending bin building	30	40,000	30
	v. DE system for coal crushing building	30	25,000	30
	vi. DE system for coal mixing building	30	3500	30
	vii. DE system for coke treatment building	30	50,000	30
15.	**Cold Rolling Mill**			
	Acid Re-Generation Plant –I	34	20,000	50
	Acid Re-Generation Plant –II	34	20,000	50
	Acid Re-Generation Plant –III	34	20,000	50
	Acid Re-Generation Plant –IV	34	20,000	50
	Acid Re-Generation Plant –V	35	25,000	50
	Pickling Plant –I (Stack –I)	32	15,716	50
	Pickling Plant –I (Stack –II)	32	15,716	50
	Pickling Plant –II (Stack –I)	32	15,716	50
	Pickling Plant –II (stack –II)	32	15,716	50
16.	**Bar & Wire Rod Mill**			
	Stack attached to			
	Wire Rod Mill (Reheating Furnace Stack)	85	10,000	50
	Wire Rod Mill (De-dusting stack)	34	15,000	50
17.	**WRM & Heavy Bar Mill**			
	i. Stack attached to Reheating Furnace	60	40,000	30
	ii. WRM Bar to Bar drawing stack	34	15,000	30
	iii. Bar rod mill reheating furnace	78	40,000	30
18.	**Iron ore pellet plant**			
	Stack attached to			
	(i) ESP of wind box and hood exhaust	85	13,95,000	50
	(ii) ESP of de-dusting unit	50	2,40,000	50

19.	**Captive Power Plant** Stack Attached to :	**Stack height**	**Quantity of emission (Nm³/hr.)**	**PM**	**SO_2**	**NO_x**	**Hg**	**CO (vol/vol)**
	(i) ESP of AFBC (40 MW)	75	143000	30	600	300	0.03	-
	(ii) ESP of AFBC (60 MW)	95	286000	50	600	300	0.03	-
	(iii) Common stack of ESP of Unit-1 Boiler -I & II (1x130 MW)	120	650000	50	600	300	0.03	-
	(iv) Common stack of ESP of Unit-2 of Boiler -III & IV (1x130 MW)	120	650000	50	600	300	0.03	-
	(v) ESP of Unit-3 Boiler -V (1x130 MW)	120	650000	50	600	300	0.03	-
	(vi) ESP of Unit-3 Boiler -VI (1x130 MW)	120	650000	50	600	300	0.03	-
	(vii) ESP of 250 TPH CFBC Boiler	105	576792	30	100	100	0.03	-
	(viii) ESP of WHRB of Kiln –I	76	210000	50	--	--	--	1%
	(ix) ESP of WHRB of Kiln –II	76	210000	50	--	--	--	1%
	(x) ESP of WHRB of Kiln –III	76	210000	50	--	--	--	1%
	(xi) ESP of WHRB of Kiln –IV	76	210000	50	--	--	--	1%
	(xii) ESP of WHRB of Kiln –V	76	210000	50	--	--	--	1%
	(xiii) ESP of WHRB of Kiln –VI	76	210000	50	--	--	--	1%
	(xiv) ESP of WHRB of Kiln –VII	76	210000	50	--	--	--	1%
	(xv) ESP of WHRB of Kiln –VIII	76	210000	50	--	--	--	1%
	(xvi) ESP of WHRB of Kiln – IX	76	210000	50	--	--	--	1%
	(xvii) ESP of WHRB of Kiln – X	76	210000	50	--	--	--	1%
	(xviii) ESP of WHRB of Kiln – XI & XII	76	210000	50				

D. Disposal of solid waste permitted in the following manner:

Sl. No.	Type of Solid waste	Quantity generated (TPA)	Quantity to be reused on site (TPA)	Quantity to be reused off site (TPA)	Quantity disposed off (TPA)	Description of disposal site.
1.	DRI Hot ESP dust and WTP sludge	237250	237250	--	--	Will be stored in designated area and disposed
2.	Char of the DRI Section	2,53,400	2,53,400	--	---	Used in the AFBC/CFBC Boilers
3.	Kiln Accrétion	18,000	---	---	18,000	To be used in quarry and low land filling.
4.	Slag from SMS	949400	949400	--	--	Metallic part to be reused in sinter plant and remaining to be stored inside the premises and used for road making.
5.	Fly ash and Bottom ash from the AFBC & CFBC Boiler (CPP)	12,04500	---	---	12,04500	Shall be utilized as per Fly ash Notification 31.12.2021 and

						amended thereof and rest shall be disposed of at approved low-lying area.
6.	Granulated slag of blast furnace plant	1127850	-	--	11,27,850	Sold to cement plant
7.	Mill scales, Dust from APC devices of SMS, BF, Sinter Plant and Pellet Plant	182500	182500	-	--	Reused in Sinter plant and Pellet Plant
8.	Sludge from the STP	45	45	----	----	Mix with soil and used in horticulture application

E. GENERAL CONDITIONS FOR ALL UNITS:

1. The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground liable for review/variation/revocation of the consent order under section 27 of the Act of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for the purpose of the Acts.
2. The industry would immediately submit revised application for consent to operate to this Board in the event of any change in the quantity and quality of raw material / and products / manufacturing process or quantity /quality of the effluent rate of emission / air pollution control equipment / system etc.
3. The applicant shall not change or alter either the quality or quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order and at all subsequent times without any negligence on his part. In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law/Act.
5. The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
6. The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State laws or regulation.
7. This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
8. The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
9. An inspection book shall be opened and made available to Board's Officers during their visit to the factory.
10. The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system / air pollution control system / stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water / Air.
11. Meters must be affixed at the entrance of the water supply connection so that such meters are easily accessible for inspection and maintenance and for other purposes of the Act provided that the place where it is affixed shall in no case be at a point before which water has been taped by the consumer for utilization for any purposes whatsoever.
12. Separate meters with necessary pipe-line for assessing the quantity of water used for each of the purposes mentioned below:
    a) Industrial cooling, spraying in mine pits or boiler feed,
    b) Domestic purpose
    c) Process

13. The applicant shall display suitable caution board at the lace where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.
14. Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
15. The applicant shall maintain good house-keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leak-proof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
16. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
17. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed with sides and bottom made impervious.
18. The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
19. The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.
20. If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the industry must adopt alternate satisfactory treatment and disposal measures.
21. The sludge generated from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank of treatment plant.
22. The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
23. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Act or Rules made therein.
24. The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples / stack monitoring / inspection.
25. The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
26. No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.
27. The liquid effluent arising out of the operation of the air pollution control equipment shall be treated in the manner to the meet the prescribed standards by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended).
28. The stack and ambient monitoring system installed by the applicant shall be opened for inspection to this Board at any time.
29. There shall not be any fugitive or episodal discharge from the premises.
30. In case of such episodal discharge/emissions the industry shall take immediate action to bring down the emission within the limits prescribed by the Board in conditions/stop the operation of the plant. Report of such accidental discharge /emission shall be brought to the notice of the Board within 24 hours of occurrence.
31. The applicant shall keep the premises of the industrial plant and air pollution control equipment clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipment, location, inspection chambers, sampling port holes shall be made easily accessible at all times.
32. Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and / or result in violation of the standards mentioned above shall be reported to the Headquarters and Regional Office of the Board by fax / speed post within 24 hours of its occurrence.
33. The industry has to ensure that minimum three varieties of indigenous species of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the industries or industrial premises. This plantation is stipulated over and above the bulk plantation of trees in that area.
34. The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the industrial plants shall be disposed off scientifically to the satisfaction of the Board, so as no to cause fugitive emission, dust problems through leaching etc., of any kind.

35. All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by :
    i) Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
    ii) Controlled incineration, wherever possible in case of combustible organic material.
    iii) Composting, in case of bio-degradable material.

36. Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Letter of authorization shall be obtained for handling and disposal of hazardous wastes.
37. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.
38. The applicant, his/heirs/legal representatives or assignees shall have no claim whatsoever to the condition or renewal of this consent after the expiry period of this consent.
39. The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent.
40 Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Act by the Board.
41. The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 1981.
42. The industry shall comply to all the conditions stipulated under Charter on Corporate Responsibility for Environmental Protection (CREP) guidelines in a time bound manner as envisaged therein. (if applicable)
43. The industry shall comply to the conditions stipulated in CTE order issued by Odisha State Pollution Control Board.
44. The industry shall abide by E(P) Act, 1986 and Rules framed there-under
45. In case the consent fee is revised upward or the fees paid is found to be inadequate for any reason during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the adequate amount within the period stipulated by the Board the consent order will be revoked without prior notice.
46. The Board reserves the right to revoke/refuse consent to operate at any time during period for which consent is granted in case any violation is observed and to modify/ stipulate additional conditions as deemed appropriate.

GENERAL CONDITIONS FOR UNITS WITH INVESTMENT OF MORE THAN Rs 50 CRORES, AND 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES (RED A).

1. The applicant shall analyze the effluent / emissions and Ambient Air Quality every month through approved laboratory for the parameters indicated in TABLE- 'B', 'C' & Part -'B' as mentioned in this order and shall furnish the report thereof to the Board on monthly basis.
2. The following information shall be forwarded to the Member Secretary on or before 10th of every month.
    a) Performance / progress of the treatment plant.
    b) Monthly statement of daily discharge of domestic and/or trade effluent.
3. Non-compliance with effluent limitations

a) If for any reason the applicant does not comply with or is unable to comply with any effluent limitations specified in this consent, the applicant shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the following information in writing within 5 days of such notification.
    i) Causes of non-compliance
    ii) A description of the non-compliance discharge including its impact on the receiving waters.
    iii) Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the duration or period of non-compliance.
    iv) Steps taken by the applicant to reduce and eliminate the non-complying discharge and

v) Steps to be taken by the applicant too prevent the condition of non-compliance.

b) The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

c) Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not such non-compliance is due to factors beyond his control, such as break-down, electric failure, accident or natural disaster.

4. Proper housekeeping shall be maintained inside the factory premises including process areas by a dedicated team.
5. The industry must constitute a team of responsible and technically qualified personnel who will ensure continuous operation of all pollution control devices round the clock (including night hours) and should be in a position to explain the status of operation of the pollution control measures to the inspecting officers of the Board at any point of time. The name of these persons with their contact telephone numbers shall be intimated to the concerned Regional Officer and Head Office of the Board and in case of any change in the team it shall be intimated to the Board immediately.
6. The industry shall engage dedicated qualified manpower to ensure continuous and effective operation of online stack / Ambient Air Quality / Effluent monitoring stations for maintenance of database, real time data transfer to SPCB server, data analysis and co-ordination with concerned personnel of process units for taking corrective measures in case of non-compliances and to respond to the instructions of SPCB in this matter.
7. All employees of the industry including officers, staff, workers, contract workers involved in operation/maintenance/ supervision of process area, pollution control areas, raw material and waste handling areas shall undergo short term training at least twice in a year in the field of pollution control and environment protection to create awareness and develop green skill. The report on the activities along with details and photographs shall be submitted to the Board on annual basis by end of June for previous financial year.
8. ISO auditing reports of the industry in the field of environment shall be submitted to the Board every year on annual basis.
9. The environmental cell shall be established and upgraded effectively to guide, monitor the pollution control and environmental protection activities inside the industries on day-to-day basis to ensure that the conditions stipulated in the consent to establish/operate order of the SPCB and conditions imposed in EC and provisions of various environmental acts and rules are complied with and the report returns, compliances are submitted to the Board in due time.
10. Adequate numbers of scientific / technical persons having qualification in environmental engineering/ environmental science from recognized institution/ university must be engaged or appointed along with other interdisciplinary qualified persons to effectively implement and monitor different areas of environment management and regulatory compliances including air pollution control, water pollution control, online monitoring, real time data transmission, management of solid waste, hazardous waste, E-waste, plastic waste etc. The Head of the environmental cell should be a senior level official, who will directly report to the plant head to ensure that environmental management is performed effectively to ensure compliance to the environmental norms on priority basis.
11. Energy consumption data of different pollution control devices like ESP/ Bag filter/ Scrubber/ Cyclone/ Gas cleaning plant/ Fume treatment plant/ ETP/STP/Flow meters (treated effluent recycling) shall be collected online on real time centralized platform/ dashboard with data storage facility and generate tamperproof monthly / periodic reports, which shall be analyzed by Energy Auditor, certified by Bureau of Energy Efficiency and accordingly the Energy Management / preventive maintenance of Pollution Control equipment shall be adopted. The energy management of process and pollution control devices shall be practiced to record the progressive achievements to minimize energy consumption in order to reduce greenhouse gas emission.

12. The post EIA monitoring schedule should be strictly followed for different parameters around the plant for the units is covered under EIA notification. The industry shall also conduct noise level study in the core zone and buffer zone of the industry and submit 6 monthly report to the Board.

F. SPECIAL CONDITIONS:

AIR POLLUTION CONTROL

1. All the air pollution control devices like ESPs / GCPs / Bag filters/ Ventury scrubbers installed at various process units and their raw material feeding and product handling sections shall be maintained, operated efficiently and continuously so that particulate matter emission from the stack shall meet the prescribed standard of the Board as indicated in 'Table-C'. The industry shall ensure continuous and effective operation of all the APC devices through preventive maintenance.
2. All the potential fugitive dust generating areas of all the process units shall be covered with the adequate suction points. Fume generated from the ladle furnaces, and other process units of Steel Melting Shops (SMS) shall be collected through adequately designed fume extraction system. The collected dust / fumes shall be treated in the GCPs / bag filters/ sscrubbers.
3. The raw material handling yards shall be provided with adequate water sprinkling facilities so as to prevent fugitive dust generation during raw material handling and vehicle movement. All the raw material processing units and their transfer points shall be provided with adequate network of dry fog nozzles. The dust suppression system shall be operated continuously and effectively to avoid dust nuisance in the area.
4. There shall be no leakage of flue gas through the emergency caps, slip rings or any other process areas of DRI kilns except during exigencies.
5. There shall not be any leakages from flanges and pipes and gas conveyance system of the Blast furnaces and such leakages if any shall be immediately attended.
6. Appropriate air pollution control devices shall be installed to collect and treat the secondary emissions from tapping area and casting areas of Blast furnaces.
7. All the online continuous stack emission monitoring systems (CEMS) for measurement of particulate matter and gaseous pollutants shall be operated effectively & uninterruptedly and real time monitoring data so generated shall be transmitted directly to RT-DAS server of the Board without passing through any local PC or server.
8. The industry shall strictly follow the guidelines of CPCB dated July, 2018 for Online Continuous Effluent Monitoring Systems (OCEMS) and Guidelines for continuous Emission Monitoring Systems of August, 2018 for PM and other gaseous pollutants.
9. The industry shall ensure tampered proof real time transmission of online monitoring data to the server of CPCB and SPCB and maintain the health of the analyzers and data connectivity through valid AMC.
10. Online monitoring system for PM, SO_2, NO_x, Hg for thermal power plants as per CPCB guideline for CEMS, July 2017 and Standards prescribed for these parameters by MoEF & CC Dt 7.12.2015 shall be complied.

11. All the online continuous ambient air quality monitoring stations (CAAQMS) shall be operated effectively & uninterruptedly and the online monitoring data so generated shall be transmitted directly to RT-DAS server of the Board without passing through any local PC or server.
12. Steps shall be taken for regular monitoring of Mercury (Hg) in the stack of AFBC & CFBC boiler and submit data to the Board.
13. The unit shall provide low NOx burners to reduce NOx emission to keep the level within the prescribed standard by MoEF & CC vide Notification dtd. 07.12.2015.
14. Steps shall be taken for installation of Flue Gas Desulpurisation (FGD) system in future if required to keep the SO2 level within 600mg/Nm3 to confirm the MoEF & CC Notification dtd. 07.12.2015. This shall also include management and disposal of effluent / solid waste to be generated from FGD system.
15. The Pneumatic Dust Handling system installed at the hoppers of all the ESPs and bag filters shall be operated continuously and effectively so that no fugitive dust nuisance is created.
16. The unit shall get the performance evaluation study of all major air pollution control devices especially in Blast Furnace, Steel Melting/Making Shop, Pellet Plant, Sinter Plant, Coke Ovens, DRI section preferably by M/s MECON, a public sector enterprise or nationally reputed engineering consulting agencies who has technical expertise in steel sector and submit report to the Board.
17. The digital display board installed at the main gate shall be of minimum size of 6ft x 4ft as stipulated by CPCB with provision of display of real time data online analysers (CEMS, CAAQMS & CEQMS), so that the public can visualize the actual emission and the values of parameters displayed at the gate. Outdoor LED video screens should be preferred for digital display of environmental parameters, CTO and authorization conditions and awareness clippings on environment at the main gate, colony area and process area.
18. Online CO / Ammonia/ Chlorine and such other gas monitoring system shall be installed in every process area where such toxic gas are expected to be generated and in the plant premises along with alarm system to avoid accidental hazards due to gas leakage.
19. Green belt shall be properly designed and developed with plantation of suitable local species and species prescribed by CPCB.
20. Telescopic chute shall be installed at the bottom of hoppers/silo wherever applicable to prevent emission of fugitive dust during material transfer/unloading.
21. Adequate no. of Carbon Monoxide (CO) detectors shall be installed near Gas Cleaning Plant area of the blast furnaces and those shall be in operation all the time. Appropriate and adequate alarm provision shall also be made.
22. Adequate measures shall be taken to control acid fumes in the shop floor of pickling lines.

23. Iron ore and coal used in the plant shall be stored under covered shed. Material storage area of the plant, approach roads shall be covered with adequate sprinkling facility. The water sprinkling system shall be kept operational all the time to avoid any fugitive dust nuisance.
24. The industry shall strictly follow the conditions stipulated in the Amended Notification of FE&CC Dept., Govt. of Odisha pertaining to Fuel Policy of Odisha vide No. FE-ENV3-Env-0014-2017/3082/FE&CC,Dt. 04.02.2025 and amendments made thereafter.
25. The industry shall submit monthly return on stock statement of the pet coke to the Board.
26. The industry shall ensure transmission of uninterrupted real time online continuous emission monitoring data attached to Coke Oven Plant w.r.t. the parameter SO_2 to RT-DAS server of the Board.
27. The raw pet coke procured by the unit shall not be used for trading purpose.
28. The industry shall install all the requisite Air Pollution Control measures at Coke Oven-2 so as to achieve the emission standards for particulate matter (PM) and SO2 concentration and provide minimum stack height as prescribed in E (P) Act, 1986 and rules framed there under as amended from time to time.
29. This permission will be withdrawn, if ban is imposed on use of imported pet coke or above conditions are not complied.
30. Use of low Sulphur Pet Coke is permitted in the Integrated Steel Plants for blending with the coking coal in recovery-type coke ovens equipped with the desulphurization plant.
31. Use of pet coke shall be limited to 10% of its feedstock to the coke oven with pet coke Sulphur content not exceeding 3%.
32. Continuous analyzers for measurement of Sulphur dioxide shall be installed in the stacks of processes where waste/process gases (coke oven gas and blast furnace gas) are used.
33. Regulation and monitoring of such imports will be as per the guidelines of the MoEF&CC vide its O.M. No. Q-18011/54/2008-CPA, dated 10.09.2018.
34. Import of Low Sulphur Pet Coke shall be used for the declared manufacturing process and not for any other purpose including use as fuel or for trade.
35. The availability of domestic Low Sulphur Pet Coke with Sulphur content not exceeding 3% may be assessed by the Ministry of Commerce and Industry in consultation with the MoEF&CC from time to time for taking necessary decisions to priorities domestically available low Sulphur pet coke, if any.
36. The unit shall submit fly ash utilization status to the Board annually and shall comply to the provisions of revised fly ash Notification No. SO.5481(E),dt. 31.12.2021 of MoEF & CC, Govt. of India.
37. Dust suppression facilities by provision of adequate water sprinkling shall be made at the active dumping area and roads to prevent dust nuisance in the area.

38. The industry shall comply with all the stipulations contained in the Gazette Notification of Govt. of India vide No. 155, dtd. 31.03.2012. For emission standard, the details of 'Table-C' of this order is applicable.
39. Accumulation of dust and other solid waste in the work zone and non-dumping areas inside the factory premises shall be avoided. The work zone shall be properly cleaned either manually or mechanically every day and the dust so collected shall be disposed off in the designated dump site.
40. The approach roads and all the internal roads shall be fully concreted / blacktopped. All the roads shall be cleaned periodically to avoid accumulation of dust. Adequate sprinkling facility, preferably by fixed water sprinklers shall be provided alongside all the internal roads to prevent generation of fugitive dust during vehicular movement.
41. D.G. sets should be acoustically enclosed with anti-vibration measures and equipped with A.M.F. (Auto Mains Failure Device) for auto changeover of power supply from grid to D.G. in the event of power failure. The AMF Panel should preferably be PLC (Programmable Logic Control) based. Dedicated D.G. sets of adequate capacity shall be installed to ensure adequate standby power supply to run all pollution control devices of the plant in the event of power failure.
42. The installed HD IP camera shall be operated continuously so that video streaming shows in server of the Board on interruptedly.
43. The industry shall put up sign Boards at appropriate places with nomenclature of the stacks in consultation with Regional Officer of the Board. It shall install electronic display Board in front of main gate to display the monitoring data, prescribed standard for public information.
44. The ambient air quality shall confirm to the National Ambient Air Quality standard as per the notification of MoEF dated 16 Nov 2009 (Annexed).

WATER POLLUTION CONTROL

1. Specific water consumption in the power plant shall be limited within 3.5m3/MWh by 6th Dec, 2017 as per MoEF & CC vide Notification dtd. 07.12.2015.
2. Under no circumstances there shall be discharge of any effluent to outside the factory premises. Water used for cooling purposes shall be fully recycled. Water used in various processes shall be suitably treated at source and recycled in those processes.
3. The wastewater generated from the Coke Oven-II and their respective coal chemical departments shall be adequately treated in the BOD plant and the treated effluent after confirming to the prescribed standard shall be utilized in coke quenching in coke oven, slag granulation in blast furnaces and dust suppression. Under no circumstances, there shall be any diversion of effluent from coke oven and byproduct plant into any other drains or discharge system.
4. Wastewater generated from the pickling lines Cold Rolling Mill shall be treated in the modified ETP and the treated water shall be reused. Care shall be taken to avoid spillage of the pickling acids.

5. Waste water generated from raw water treatment system and back wash of filtration plant shall be properly treated and taken to guard pond and reused.
6. Water used for cooling purposes in sinter plant shall be fully recycled in a closed loop. The periodical cooling blow down shall be treated in existing RO plant and reuse.
7. Blow down from WHRB boiler / AFBC / CFBC boilers and all the cooling towers shall meet the following standards before it is discharged to the common monitoring basin and shall be used for dust suppression;
   a. For boiler blow down: SS-100mg/l,O&G-20mg/l, Cu(Total)-1.0mg/l, Fe(Total)-1.0mg/l
8. For cooling tower blow down: Free available chlorine-0.5mg/l, Zn-1.0mg/l, Cr (Total)-2.0mg/l, Phosphate-2.0mg/l.
9. The unit shall recover moisture from the tailings generated from iron ore beneficiation plant through deep bed paste thickener as a water conservation measures.
10. The unit shall convey the tailings from iron ore beneficiation plant to the deep paste thickener through closed pipe line.
11. The water recovered from the tailings through thickener shall be return back to iron ore beneficiation plant for use in beneficiation through a closed loop.
12. The tailings after recovery of moisture shall be taken through closed pipe line to tailing pond located at Sripura mouza.
13. The unit shall maintain Zero Liquid discharge from the deep bed paste thickener and there shall not be any discharged to outside plant premises.
14. Domestic solid waste generated from colony, canteen, office complex etc. shall be operated through mechanically operated waste convertors with facility for recovery of useful products like oil/ gas/ carbon/ metal/ compost etc. The products to be used by the industry or sold and the inorganic residues is to be used for captive consumption/ sold/ disposed in sanitary landfill developed inside the premises.
15. The industry shall operate mechanized wheel washing system along with effluent treatment and recycling facilities for the raw material / product /solid waste transport vehicles at the exit point of the industry.
16. The domestic effluent generated from colony shall be treated in STP and shall meet the standards prescribed by MoEF & CC vide notification G.S.R 1265(E) dtd.13th October 2017 as follows; pH - 6.5-9.0, BOD - less than 30mg/l TSS - less than 100mg/l and Fecal Coliform (FC) MPN/100ml<1000.
17. Online and continuous effluent monitoring system (CEQMS) shall be operated effectively & uninterruptedly and the online monitoring data so generated shall be transmitted directly to RT-DAS server of the Board without passing through any local PC or server.
18. The runoff water from the whole factory premises including solid waste dumping area shall be collected through dedicated garland drains and shall be adequately treated in the wastewater treatment plant (WTP-I, WTP-II and WTP-III). The treated

effluent from the WTP-II & WTP-III shall be treated in RO plant and treated wastewater shall be reused in power plant. The treated effluent from WTP-I, III & III shall be meet prescribed standard for discharge into inland surface water and shall be reused to maximum extent and excess if any shall be discharged to outside in rainy season only.

19. The Effluent Treatment Plant (ETP) and the Sewage Treatment Plant (STP) shall be operated effectively and continuously through a dedicated experienced team, so as to confirm to the prescribed norms.
20. Flow meter and level sensors with telemetry system should be installed in the bore wells as stipulated by Central Ground Water Authority/ Water Resources Department.
21. The industry shall conduct surface run off management study and develop rain water harvesting structures and surface runoff treatment systems inside the premises.
22. Dumping of solid waste shall be made at designated locations in a systematic manner with proper engineering applications by providing proper slope, angle, berms, height, toe wall, retaining wall and road network. The active dumping area shall be kept at minimum. The exhausted dump area shall be technically reclaimed by spreading a layer of soil with proper compaction and consolidation. Biological reclamation of the same shall be made by planting saplings of appropriate species. Adequate provision for watering of plants and protection of trees shall be made.
23. The industry shall have adequate space at point of time for waste disposal at least for a period of next year. Before using any new patch of land / site for solid waste dumping, the industry shall obtain prior consent to establish of the Board.
45. Ash generated from Power plant shall be disposed off as per fly ash Notification No. SO.5481(E), Dt. 31.12.2021 of MoEF & CC, Govt. of India.
24. ESP dust from DRI Kilns and other non hazardous solid waste generated from factory shall be disposed in designated areas at abandoned stone quarry and low land filling with permission from the Board in environmentally sound manner without causing any environmental impact in that area.
25. Iron ore tailing generated from the iron ore beneficiation plant shall be disposed at earmarked tailing disposal site at Siripura village in an environmentally sound manner without causing any environmental impact in that area.
26. Consent to operate is subject to availability of all other statutory clearances required under relevant Acts / Rules and fulfillment of required procedural formalities.

G. ADDITIONAL CONDITIONS:

1. The unit shall revamp the Hybrid ESP attached 250 TPH Boiler within 03 months .
2. The unit shall maintain the existing FTPs at SMS-I to control PM emission from secondary sources.
3. The unit shall repair the telescopic chute of the ash silos for effective unloading of ash from the silo into the trucks in order to control fugitive emission.
4. Ambient air quality with respect to noise level shall be maintained within the prescribed standard near the VPSA oxygen unit within 01 month.

5. The drains of the ash silo area and the internal work zone shall be cleaned.
6. The unit shall strictly abide by the designated discharge points for discharge of treated effluent during the monsoon period only as stipulated in CTO order and stop discharge of treated effluent to outside during non-monsoon periods.
7. The unit shall expedite completion of ZLD system to avoid discharge of treated effluent discharged to outside during non-monsoon periods.
8. The unit shall comply the recommendations made by Standing committee during the industrial visit in Sambalpur district communicated vide Board's letter dated 09.03.2026.

The occupier must comply with the conditions stipulated in section A, B, C, D E, F & G to keep this consent order valid.

To,

The President and Whole Time Director,
M/s. Bhushan Power & Steel Ltd.,
At- Thelkoloi, PO – Lapanga,
Rengali, Dist - Sambalpur – 768 232

Encl : As above

MEMBER SECRETARY
STATE POLLUTION CONTROL BOARD, ODISHA

Memo No. 3616 /Dt. 19-03-2026

Copy forwarded to the:

i) Regional Officer, State Pollution Control Board, Sambalpur
ii) District Collector, Sambalpur
iii) D.F.O, Sambalpur
iv) Director of Mines, Odisha, Bhubaneswar
v) Director Factories & Boiler, Bhubaneswar
vi) Consent/HWM Register.

19/3/2026

ADDL. CHIEF ENV. ENGINEER
STATE POLLUTION CONTROL BOARD, ODISHA

OIC

General Standards for discharge of environment pollutants
PART-A: EFFLUENTS

Sl.No.	Parameters	Standards			
		Inland surface	Public sewers	Land for irrigation	Marine Costal Areas
		(a)	(b)	(c)	(d)
1.	Colour & odour	Colourless/Odourless as far as practible	------	See 6 of Annex-1	See 6 of Annex-1
2.	Suspended Solids (mg/l)	100	600	200	For process wastewater – 100 b. For cooling water effluent 10% above total suspended matter of influent.
3.	Particular size of SS	Shall pass 850	-----	------	
5.	pH value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6.	Temperature	Shall not exceed 5^0C above the receiving water temperature	-------	--------	Shall not exceed 5^0C above the receiving water temperature
7.	Oil & Grease mg/l max.	10	20	10	20
8.	Total residual chlorine	1.0	----	------	1.0
9.	Ammonical nitrogen (as N) mg/l max.	50	50	------	50
10.	Total Kajeldahl nitrogen (as NH_3) mg/1 max.	100	----	------	100
11.	Free ammonia (as NH_3) mg/1 max.	5.0	----	------	5.0
12.	Biochemical Oxygen Demand (5 days at (20^0C) mg/1 max.	30	350	100	100
13.	Chemical Oxygen Demand, mg/1 max.	250	----	------	250
14.	Arsenic (as As) mg/1 max.	0.2	0.2	0.2	0.2
15.	Mercury (as Hg) mg/1 max.	0.01	0.01	------	0.001
16.	Lead (as pb) mg/1 max.	01.	1.0	------	2.0
17.	Cardmium (as Cd) mg/1 max.	2.0	1.0	------	2.0

18.	Hexavalent Chromium (as Cr + 6) mg/l max.	0.1	2.0	--------	1.0
19.	Total Chromium (as Cr) mg/l max.	2.0	2.0	---------	2.0
20.	Copper (as Cu) mg/l max.	3.0	3.0	---------	3.0
21.	Zinc (as Zn) mg/l max.	5.0	15	---------	15
22.	Selenium (as Sc) mg/l max.	0.05	0.05	---------	0.05
23.	Nickel (as Nil) mg/l max.	3.0	3.0	---------	5.0
24.	Cyanide (as CN) mg/l max.	0.2	2.0	0.2	0.02
25.	Fluoride (as F) mg/l max.	2.0	15	---------	15
26.	Dissolved Phosphates (as P) mg/l max.	5.0	-------	---------	--------
27.	Sulphide (as S) mg/l max.	2.0	--------	---------	5.0
28.	Phennolic compounds as (C_6H_5OH) mg/l max.	1.0	5.0	---------	5.0
29.	Radioactive materials a. Alpha emitter micro curle/ml. b. Beta emitter micro curle/ml.	 10^7 10^6	 10^7 10^6	 10^8 10^7	 10^7 10^6
30.	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
31	Manganese (as Mn)	2 mg/l	2 mg/l	---------	2 mg/l
32.	Iron (Fe)	3 mg/l	3 mg/l	---------	3 mg/l
33.	Vanadium (as V)	0.2 mg/l	0.2 mg/l	---------	0.2 mg/l
34.	Nitrate Nitrogen	10 mg/l	--------	---------	20 mg/l

PART –B : NATIONAL AMBIENT AIR QUALITY STANDARDS

Sl. No.	Pollutants	Time Weighed Average	Concentrate of Ambient Air		
			Industrial Residential, Rural and other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1.	Sulphur Dioxide (SO_2), $\mu g/m^3$	Annual *	50	20	-Improved west and Gaeke
		24 Hours **	80	80	- Ultraviolet fluorescence
2.	Nitrogen Dioxide (NO_2), $\mu g/m^3$	Annual *	40	30	- Modified Jacob & Hochheiser (Na-Arsenite)
		24 Hours **	80	80	- Chemiluminescence
3.	Particulate Matter (size less than 10µm) or $PM_{10}\mu g/m^3$	Annual *	60	60	-Gravimetric - TOEM
		24 Hours **	100	100	- Beta Attenuation
4.	Particulate Matter (size less than 2.5µm) or $PM_{2.5}$ $\mu g/m^3$	Annual *	40	40	-Gravimetric - TOEM
		24 Hours **	60	60	- Beta Attenuation
5.	Ozone (O_3) $\mu g/m^3$	8 Hours **	100	100	- UV Photometric - Chemiluminescence
		1 Hours **	180	180	- Chemical Method
6.	Lead (Pb) $\mu g/m^3$	Annual *	0.50	0.50	-AAS/ICP method after sampling on EMP 2000 or equivalent filter paper. - ED-XRF using Teflon filter
		24 Hours **	1.0	1.0	
7.	Carbon Monoxide (CO) mg/m^3	8 Hours **	02	02	- Non Dispersive Infra Red (NDIR) Spectroscopy
		1 Hours **	04	04	
8.	Ammonia (NH_3) $\mu g/m^3$	Annual*	100	100	-Chemiluminescence - Indophenol Blue Method
		24 Hours**	400	400	
9.	Benzene (C_6H_6) $\mu g/m^3$	Annul *	05	05	-Gas Chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10.	Benzo (a) Pyrene (BaP)-Particulate phase only, ng/m^3	Annual*	01	01	-Solvent extraction followed by HPLC/GC analysis
11.	Arsenic (As), ng/m^3	Annual*	06	06	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12.	Nickel (Ni),ng/m^3	Annual*	20	20	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

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

** 24 hourly or 08 hourly or 01 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.

Signature Not Verified

Digitally Signed by :SASMITA SAHOO

Date: 2026.03.19 12:23:09 IST