Α.	ENVIRONMENTAL PARAMETER	SPECIFIC CONDITION	IS							
i.	AIR QUALITY MONITORING AND PRESERVATION	Proper and ful plant using heat re flue gas shall be discha	covery steam gene		gases in power all be ensured and no					
	Com	 The coking coal is fed after crushing into Heat Recovery type coke over consisting of chambers made of refractory. The Carbonization of coal take 1100 to 1250° C and the heat for carbonization is supplied by combustion matters evolved from the coal charged by admitting air into the chamber flue gas free from volatile matters is used to generate electric power by steam in waste heat recovery boiler. Presently the plant is operating at rated capacity of 1.53 MTPA coke procession project of additional capacity has been taken up From April 2021 to September 2021 total coke production was 748464 Metric Ton) and Power generated is 396.092 MU. 								
		Month	Coke Production (Tonnes) Dry	POWER GENERATI ON (In MU)	WHRB Availability (%)					
		Apr-21	130392.00	76.09	99.9%					
		May-21	128373.00	70.94	97.2%					
		Jun-21	124052.00	65.21	92.9%					
		Jul-21	121674.00	61.33	86.3%					
		Aug-21	123134.00	60.60	89.4%					
		Sep-21	120839.00	61.93	90%					
		TOTAL	748464.00	396.09						
		equally divided is having 8 nos no. of WHRB 8 stack of 70 m Total 8 nos of s designed for st The gas flow r that used for p	into 4 rows. 11 numb of block. 2 nos. of block subsequently 2 nos height. So each row stacks and 16 nos of b ack emission <50 mg/ neters installation at ower generation and	ers of ovens are form ocks of 11 ovens eac . of WHRBs connecte has 4 numbers of W poilers are present in t /Nm3 of particulate ma each boiler inlet for r	neasuring the gas volume hir, are under progress. As					
ii	STATUTORY COMPLIANCE	The prescribed notified vide notifica complied with.	emission standa tion no. GSR 46		oven plants as ebruary, 2006 shall be					

	Com	 This is the unit established after the notification of 2006 published, and as per notification no. GSR 46(E) the Non recovery / waste heat recovery technology has been adopted for coke making which is environment friendly method. The emission standard specified in the Environmental Clearance, under Specific condition (iii) for stack emission has been followed. To reduce the SPM, non recovery type technology is being used. WHRB used as PCU. The coal is being charged inside the oven under negative pressure for 70 hours (avg. in a temp of 950 – 1100 °C as a result the volatiles evolved during coal carbonization is being combusted completely in presence of controlled quantity of air so emission of any particulate matter is very low. The stack height is 70Mt from GL. The emission from all stack are much less than 50mg/Nm3 of SPM. Online continuous stack monitoring system is also installed in all 8 chimney. Regular stack monitoring is done by registered third party also. Reports enclosed as enclosed as ANNEXURE - 2
111.	AIR QUALITY MONITORING AND PRESERVATION	Continuous stack monitoring facilities for all the major stacks and adequate air pollution control systems shall be provided to control air emissions within 100 mg/Nm3 and reports submitted to the Ministry's Regional Office at the Bhubaneswar, WBPCB & CPCB.
	Com	 On-line stack monitoring, the Opacity meter has been commissioned in all Chimney. The opacity meter reading to be connected to WBPCB server will be done by FY22. Request letter being sent to WBPCB for getting the server details. Regular stack monitoring is done by registered third party. The Stack emission (avg) report for last six month (April'21 – Sept'21) enclosed as <u>ANNEXURE - 2</u>.
iv.	AIR QUALITY MONITORING AND PRESERVATION	Fugitive emissions from coal handling plant shall be controlled by sprinkling water. Dry fogging system shall be installed at all the transfer points. In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources including material handling areas and material transfer points.
	Com	• Besides the continuous water sprinkling at coal handling plant and all transfer point; the Dust Suppression System with Dry Fogging (DF) has been commissioned. In Wagon Tippler, Coal crusher unit and all the coal transfer points the DF and dust suppression system is operational.
		 Dry fog system for coal and coke handling to restrict particulate emission to within 10 mg per cu m have been installed. The system has been installed at Wagon tippler unit, coal crusher unit, Coal / coke transfer points like Junction House # 5 (Cl#7 belt discharge pt., CL#8 belt receiving pt.); Junction House # A (WCK#1, 2 belt discharge pt. WCK#3 belt receiving pt.); Junction House # B (WCK#3 belt discharge pt. RCK#1, CK#1 belt receiving pt.); Junction House # C (WCK#5, 6 belt discharge pt. CK#7 belt receiving pt.); Junction House # D (WCK#7, RCK#3 belt discharge pt. CK#1 belt receiving pt.); Screen House. In last six month 5 numbers of DF points have been constructed in coal handling area at Junction House # 1, 2 & 2A. Regular maintenance is being done for making this system effective

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2008 vide letter# F. No. J-11011//284/07- IA II (I)

Period – April 2021 – September 2021



v.	AIR QUALITY MONITORING AND PRESERVATION	Secondary fugitive emissions shall be controlled within the prescribed limits, regularly monitored and records maintained. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.
	Com	 The ovens work under the negative pressure so secondary fugitive emissions are negligible in this non recovery coke making technology All workers are being provided with PPEs for protection HMC is following the CPCB guidelines so far the non recovery coke oven plant operation is being concerned. Proper sealing arrangements has been provided in the oven doors and flue gas pipes/valves so that fugitive emission from batter can be restricted. Gaseous emissions are monitored regularly; corrective action taken whenever the results found crossing the limit.
vi.	WATER QUALITY MONITORING AND PRESERVATION	Total requirement of the water from Haldia Development Authority for coke oven and WHRB shall not exceed 5,300 m3/day and 13,750 m3/day respectively. The effluent shall be treated in the effluent treatment plant and all the treated wastewater shall be recycled and reused either in the process or for dust suppression or green belt development. No wastewater shall be discharged outside the factory premises and 'Zero' discharge shall be adopted. Domestic effluent shall be treated in sewage treatment plant (STP) and disposed off as per norms laid down by Haldia Municipal Corporation.
	Com	 The average water taken from HDA as make-up water during April '21 to Sept '21 was 1035 m3/day approximately for coke oven (Tata Steel, Hooghly Met coke) and 6570 m3/day approximately for WHRB (Tata Power) which is within the permissible limit granted by the MOEF. The detail water consumption report is enclosed <u>as :</u> <u>ANNEXURE 3</u>
		 The processed water is being tested and recycled and used for coke quenching and for green belt development within the plant. Initiatives taken for achieving Zero Discharge are: A Storm water pond has been developed. The capacity of the pond is 4000 Cu mt (approx). Pipe line has been laid in all 4 rows for use the same water for coke Quenching purpose Pump has been installed at the end of Row#4 drain final outlet to recirculated the water in the quenching pond .
		 As the unit is not having any township inside the factory premises no domestic effluent has been generated at the company's scope so STP has not been provided separately. The canteen waste water is being recycled in the process itself. STP has been commissioned inside the plant and phase wise all domestic effluent is being treated in this STP. The outlet water is being stored at the storm water pond and finally used for coke quenching

vii.	WATER QUALITY MONITORING AND PRESERVATION	Permission for the drawl of water from Haldia Development Authority shall be obtained and recommendations implemented.
	Com	 HMC is purchasing the water from M/S Haldia Water Service Pvt Limited . An agreement between Haldia Development Authority and HMCPCL had taken place on 01 March 2007, Ref no: 04AA 789559
viii.	WASTE MANAGEMENT	Coal and coke fines shall be recycled and reused in the process. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner. The waste oil shall be properly disposed off as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.
	Com	 Coal fines are reused in the process and coke fines are sent to JSR for re-using at their end. The empty oil drum and oil filters and oil soaked jute/cotton waste generated from the process is being sent to the authorized re-processor (TSDF) through Manifest System. The used oil generated from the process is being sent to authorized re-processor The organisation has taken special initiative to reduce solid waste generation by reducing the oven door consumption. The door cast-able (refractory bricks) material is being now electrically preheated as a result the door cast-able life has been increased and refractory brick waste generation has been reduced over the years. The ceramic blankets are being disposed to the authorized TSDF through Manifest System. Refer <u>ANNEXURE 5</u>
ix.	MISCELLANEOUS Com	 All the environment management measures given in the EIA/EMP shall be implemented and complied with. Implementation of protection measures as indicated in the REIA are implemented. Online stack monitoring systems are being commissioned. For dust suppression DF system has been installed. Acoustic enclosures / barriers / shields are being used to reduce noise, providing the personal protective equipment like ear plugs/ muffs etc are also being provided.

		 outside the battery and the temperature in the battery area remains > 40 deg C (avg). All the workers working at battery area are being provided with adequate PPEs like Fire registrant jacket, nose musk etc.
х.	GREEN BELT	As proposed, green belt shall be developed in 27 % area as per the CPCB guidelines in consultation with DFO.
	Com	 Nearly 18.50 hector area is being considered as Green belt. Total 27500 number of trees are surviving as on date under Tata Steel scope (nearly 5000 nos of trees were uprooted during the cyclone "Amphan". Replantation is under progress. Approximately 6000 trees are existing within Tata Power scope which adds another 1.45 hector area. Total Green Belt area is approximately 26% of the total 72.5 hector plant area. The areas where tree plantation are not feasible, and also not required to be paved, are being covered with grass, hedges and low bushes with flowering trees for beautification and to avoid soil erosion. Every year plantation done in available space. Till date 1700 trees planted inside the works. 1500 nos of saplings being distributed during the WED 2021 to all
		employees
В.	ENVIRONMENTAL PARAMETER	GENERAL CONDITIONS
B. i.		
	PARAMETER STATUTORY	GENERAL CONDITIONS The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State
	PARAMETER STATUTORY COMPLIANCE	GENERAL CONDITIONS The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government. All CTO conditions are being Complied and six monthly compliance report submitted to
i.	PARAMETER STATUTORY COMPLIANCE Com STATUTORY	GENERAL CONDITIONS The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government. All CTO conditions are being Complied and six monthly compliance report submitted to WBPCB at regular basis. No further expansion or modification of the plant

	Com	Complying all the conditions stipulated by WBPCB. E.g. the stack emission standard prescribed by WBPCB is 50mg/Nm3 which is being maintained in last six months. Refer <u>ANNEXURE -2</u>
iv.	AIR QUALITY MONITORING AND PRESERVATION	Ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the WBPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with WBPCB and data submitted to the Ministry's Regional Office at the Bhubaneswar, WBPCB & CPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.
	Com	 Four corner (North / South / East / West) adjacent to the boundary wall and central of the plant have been identified within the factory premises where Ambient Air Quality is being tested at a regular basis. One Ambient Air Quality monitoring station within the plant has been commissioned. The ambient air monitoring for 12 parameters as per National AAQ standard have also been done at a regular basis by the certified 3rd party. The summary is enclosed. <u>ANNEXURE 1</u> Regular noise monitoring also been done by the accredited 3rd party. The half yearly data are being submitted to Ministry's Regional Office at the Bhubaneswar, WBPCB, Haldia office. The instruments used for ambient air quality monitoring by the accredited 3rd party is being calibrated time to time and the calibration certificates are collected from the party.
v.	Noise Monitoring and Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
	Com	 The noise level inside the plant has been recorded between specified limit The control measures such as; silencers, enclosures, hoods, rubber pads, have been provided at the appropriate places in the existing plant. The work areas where noise levels are high, earplugs and earmuffs have been provided to reduce the noise exposure. The detail report is enclosed as <u>ANNEXURE - 4</u>
vi.	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
	Com	 PME (Periodical Medical Examination) has been done for 98.5% of company employees in FY21. Records are maintained at the Occupational Health Centre. Due to the current COVID pandemic condition the health check-up for FY22 not yet started, targeting to be completed by March 2022. All employees and their family members are COVID vaccinated (both doses) and all contractor employees have received atleast 1st dose of vaccination. Health check up for contractors persons are conducted regularly during the time of the renewal of the respective gate pass. 100% checkup happened for contractor employees and records are being maintained at the OHC.

vii.	STATUTORY COMPLIANCE	All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) of CPCB issued for the steel plants shall be implemented
	Com	 The CREP has been implemented by along with Tata Steel - JSR works since this TSL – HMC unit is the stand alone coke making unit only. The company follows the Tata Steel CSR policy Presently Tata Steel works on "Focus Area" approach by adopting Villages / Panchayats / Home so that the Socio – economic development can be visible. Construction of Drinking Water Projects taken up by the unit initially for CSR activity. As a part of CSR activity flood relief materials / food items were distributed to nearly 1200 victimised families within the district of Purba Medinipur, on request of the district administration.
		Relief for The Uccount of Count of Coun
viii.	Human Health Environment	Thecompanyshallundertakeeco-developmentmeasuresincluding community welfare measures in the project area.
	Com	 The local people nearly 256 people as permanent employee and over 850 as contractual employees are being employed by the company. As a part of welfare activity, the primary schools, mainly for BPL people, have been considered. Some infrastructural development like making toilets for girls, boundary wall around the school, electrification jobs, school furniture etc are being done. Till now total 19 nos of DWP has been commissioned till FY20. The Total expenditure for DWP project till was nearly is Rs. 90 Lakhs Because of the current COVID pandemic situation no DWP has started in FY22. On request of CMHO (Chief Medical Health Officer) – Purba Medinipore 500 nos of Oximeters and Thermal Guns were distributed during the Pandemic time
ix.	Water Quality Monitoring and Preservation	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
	Com	 A Storm water pond has been developed. The capacity of the pond is 4000 Cu mt (approx). During rain, the roof water from all building like ADM building / Store / Laboratory / pump house are collected in a common storm water drain and this water is collected in the storm water pond. Pipe line has been laid in all 4 rows for using this water for coke quenching and other purposes like gardening, water spraying in the road, water sprinkling system etc.
	х.	Proper house keeping and adequate occupational health programmes shall be taken up.
	Com	 Separate agency has been appointed for removal of scarps and maintaining proper housekeeping within the plant and for cleaning activity. For storage of waste "COLORED BINS" have been provided at various location Impervious pit has been constructed for storing the hazardous waste

	 Mobile vacuum cleaning machine is also being used at a regular interval for evacuating the dust particles TPM initiatives has been started by the shop floor employees in terms of improving the house keeping at shop floor. Identifying KAIZENS and conducting 1s & 2s has been initiated. Regular Housekeeping Audit is being conducted to improve the housekeeping in the plant
xi.	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
Com	 Tata Steel Ltd., HMC Division have an Environmental Management Section (EMS) with a permanent qualified designated employee at a Senior Manager level, reports directly to the General Manager of the unit, to supervise the environmental activities and environmental management programmes. This section co-ordinates and provides necessary services on environmental issues of the entire unit This section is responsible for implementation of Environmental Management Plan and interaction with the environmental regulatory agencies, reviewing policy and planning and mitigates all statutory compliances. This section interacts with State Environment Department, Ministry of Environment & Forests (MoEF), Central Pollution Control Board (CPCB), West Bengal Pollution Control Board (WBPCB) and other environment regulatory agencies. The major responsibilities of the EMS includes: Obtaining Consent from WBPCB. Environmental monitoring Analysis of environment data, reports, preparations and transmission of report to statutory authorities, Corporate cell etc. Coordination with statutory bodies, functional groups of the unit, Corporate Environment Management Cell Interaction for evolving and implementation of modification programmes to improve the availability / efficiency of pollution control devices / systems. Environmental Appraisal (Internal) and Environmental Audit. The Corporate Environment Management Cell of Tata Steel, Jamshedpur works, headed by Chief – Environment and respective Heads – Environment also monitors and supervises the environmental activities of the HMC division at a regular basis.

xii.	Adequate funds shall be allocated towards the capital cost and recurring cost/annum environmental pollution control measures and utilized judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
Com	In HMC, Separate Fund has been allocated for carrying out continuous water spraying & sprinkling system, mobile vacuum cleaning system, within the plant area for controlling dust, installation & regular maintenance of DF system to control fugitive emission, installing and maintenance of Online ambient air quality monitoring system, monitoring the environment parameters by third party regularly etc. Fund for Green Belt development and CSR activity have also being allocated which are used in a planned manner.
xiii.	TheRegionalOfficeofthisMinistryatBhubaneswer/CPCB/WBPCBshallmonitorthestipulatedconditions.Asixmonthlycompliancereportandthemonitoreddataalongwithstatisticalinterpretation shall be submitted to them regularly.
Com	 Environment Statement FY 21 had been submitted to WBPCB on 27 September 2021 Six monthly environmental performance monitoring Report for October 2020 – March 2021 has also been submitted to MOEF, Regional Office, Bhubaneswar via email and hard copy has also been couriered. The same report has been submitted to WBPCB office also.
xiv.	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
Com	 All required information has been intimated to WBPCB while obtaining Consent to Operate. The validity of Consent to Operate is up to 31 May 2022.
XV.	TheProjectProponentshallinformthepublicthattheprojecthasbeenaccordedenvironmentalclearancebytheMinistryandcopiesoftheclearanceletterareavailablewiththeW.B.PollutionControlBoard/CommitteeandmayalsobeseenatWebsiteoftheMinistryofEnvironmentandForestsathttp:/envfor.nic.in.Thisshouldbeadvertisedwithinsevendaysfromthedateofissueoftheclearanceletterat least in two local newspapersthat are widely circulated in the regionofwhichoneshallbeinthevernacularlanguageofthelocalityconcernedandacopyofthesameshallbeforwardedtotheRegionalofficeatBhuvaneswar.bitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitbitb
Com	 Communication regarding grant of environment clearance were given to the community on 08.03.2008 through newspaper advertisements. Details of which are given below. o Financial Express – (English Adv.) / Aajkal – (Bengali Adv.) dated 08.03.2008. Communication regarding grant of environment clearance for expansion project of Coke Oven Plant from 1.6 MTPA to 2.2 MTPA vide F. No. J-11011//284/2007- IA II (I) were published in the newspapers (TOI, Business Standard, The Telegraph – Kolkata etc) dated 24 February 2018. The compliance of the same was informed to MoEF (Regional Office – Bhubaneswar) through letter dated 11.03.08 by post.

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2008 vide letter# F. No. J-11011//284/07- IA II (I)

Period – April 2021 – September 2021

AMBIENT AIR QUALITY SUMMERY REPORT

ANNEXURE - 1

Name : M/s. Tata Steel Ltd., Hooghly Met Coke Div.

Address : HFC Complex, Patikhali, Haldia, Purba Medinipur

Ambient Air Quality

Parameters	Std (µg/m³)	Near CCR (Centre)	Back Side of ADM Building (South side)	Near Patikhali Gate (East Side)	Beside Loco Maintenance Office (North Side)	Near Simplex Gate / ENS office (West Side)
PM ₁₀	100	53.70	57.7	42.7	51.7	58.5
PM _{2.5}	PM _{2.5} 60		24.8	26.8	28.4	26.7
SO2	80	6.6	6.2	6.2	6.8	7
Nox	80	21.7	19.6	19.6	22.6	24.3

Ambient Air Monitoring for 12 Parameters

(CPCB, Emission Regulation (Part III), IS: 5182 (Part – 4) 1999, IS: 5182 (Part – 2), 2001, IS: 5182 (Part – 6), 1975, Reaffirmed 1998, UV Photometric Method, Non-Dispersive Infrared Spectrometry Method, Soxlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method & UV Photometric Method for Ozone monitoring)

LOCATION – 1 : Patikhali Gate surrounding neighbourhood

		l	Concentra tion (mg / m ³)	Concentra tion (ng / m ³)	Concentr ation (ng / m ³)	Concentr ation (ng / m ³)						
Parameters	PM10	PM _{2.5}	SO2	NO ₂	Pb	Benzene	NH₃	Ozone (O3)	со	Benzo(a)Pyrene	As	Ni
Limits	100	60	80	80	1	5	400	180	2	1	6	20
Result	58.8	39.3	6.03	33.84	< 0.01	< 4.2	19.2	<20.0	0.68	< 0.5	< 1.0	< 5.0

LOCATION – 2 : Simplex Gate surrounding neighbourhood

			Concentra tion (mg / m ³)	Concentra tion (ng / m ³)	Concentr ation (ng / m ³)	Concentr ation (ng / m ³)						
Parameters	PM10	PM _{2.5}	SO₂	NO ₂	Pb	Benzene	NH₃	Ozone (O3)	со	Benzo(a)Pyrene	As	Ni
Limits	100	60	80	80	1	5	400	180	2	1	6	20
Result	60.6	37.2	7.25	22.6	< 0.01	< 4.2	18.5	<20.0	0.54	< 0.5	< 1.0	< 5.0

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2008 vide letter# F. No. J-11011//284/07- IA II (I)

Period – April 2021 – September 2021

ANNEXURE -2

STACK SUMMERY REPORT

Name : M/s. Tata Steel Ltd, Hooghly Met Coke Div. Address : HFC Complex, Patikhali, Haldia, Purba Medinipur

STACK PM Level (mg/Nm3) : Online- Opacity meter avg reading

	Chimney 1AB	Chimney 1CD	Chimney 2AB	Chimney 2CD	Chimney 3AB	Chimney 3CD	Chimney 4AB	Chimney 4CD
Apr-21	40.92	47.33	45.78	46.95	35.09	46.37	48.85	43.48
May-21	48.42	38.37	48.57	35.02	36.6	49.21	45.46	45.85
Jun-21	39.69	42.97	48.52	33.45	40.82	37.83	45.82	44.93
Jul-21	23.67	34.73	26	32.37	31.61	32.28	28.24	27.33
Aug-21	26.42	32.98	32.92	32.51	27.54	27.59	20.04	27.10
Sep-21	28.11	30.11	28.94	32.38	28.08	28.70	28.16	27.86

Stack monitoring – Manual sampling by registered third party

Month		Limit			May-21			Jun-21	
Parameters	Dust mg/Nm3	SO2 mg/Nm3	Nox mg/Nm3	Dust/PM (mg/Nm ³)	SO2 (mg/Nm3)	Nox (mg/Nm3)	Dust/PM (mg/Nm ³)	SO2 (mg/Nm3)	Nox (mg/Nm 3)
Chimney 1AB	50	800	500		Not done			Not done	
Chimney 1CD	50	800	500	45.58	204.70	139.60	37.00	352.30	182.70
Chimney 2AB	50	800	500	46.50	269.50	171.40	35.00	302.80	170.40
Chimney 2CD	50	800	500	48.50	296.80	191.20	44.20	327.40	181.20
Chimney 3AB	50	800	500	42.45	221.80	159.50	45.00	304.40	172.60
Chimney 3CD	50	800	500	45.00	266.10	164.50	41.20	323.70	178.60
Chimney 4AB	50	800	500	44.86	313.90	209.20	45.00	304.40	172.60
Chimney 4CD	50	800	500	39.23	293.40	192.60	20.20	311.20	173.20

Month		Limit		Jul-21			Aug-21		
Parameters	Dust mg/Nm3	SO2 mg/Nm3	Nox mg/Nm3	Dust/PM (mg/Nm ³)	SO2 (mg/Nm3)	Nox (mg/Nm3)	Dust/PM (mg/Nm³)	SO2 (mg/Nm3)	Nox (mg/Nm3)
Chimney 1AB	50	800	500		Not done	1	38.40	314.60	181.70
Chimney 1CD	50	800	500	41.40	302.4	133.6	29.90	287.10	159.90
Chimney 2AB	50	800	500		Not done	1	39.60	323.70	192.60
Chimney 2CD	50	800	500	37.86	323.5	175.6	24.70	316.80	175.40
Chimney 3AB	50	800	500	35.80	323.5	174.6	23.20	306.90	160.90
Chimney 3CD	50	800	500	29.30	336.4	186.8	24.20	287.00	163.40
Chimney 4AB	50	800	500	29.80	303.3	168.7	28.60	297.00	162.40
Chimney 4CD	50	800	500	29.55	311	158.6	20.60	336.60	185.40

Month		Limit					
Prameters	Dust mg/Nm3	SO2 mg/Nm3	Nox mg/Nm3	Dust/PM (mg/Nm³)	SO2 (mg/Nm3)	Nox (mg/Nm3)	
Chimney 1AB	50	800	500	29.00	295.70	160.80	
Chimney 1CD	50	800	500	30.40	30.40 291.30		
Chimney 2AB	50	800	500	Not Done			
Chimney 2CD	50	800	500	32.00	302.60	172.50	
Chimney 3AB	50	800	500	25.50	318.40	169.80	
Chimney 3CD	50	800	500	31.20	336.00	181.70	
Chimney 4AB	50	800	500	23.50	309.90	175.60	
Chimney 4CD	50	800	500	29.20	319.80	163.70	

ANNEXURE -3

WATER SUMMERY REPORT

Name : M/s. Tata Steel Ltd, Hooghly Met Coke Div. Address : HFC Complex, Patikhali, Haldia, Purba Medinipur

MONTH	WATER CONSUMED PER DAY (HMC)	WATER CONSUMED PER DAY (TPC)	TSL (HMC) WATER CONSUMED (CUBIC MTR/MONTH)	TPC WATER CONSUMED (CUBIC MTR/MONTH)
Apr-21	1570.50	9529.50	47115	285885
May-21	1509.07	8437.60	45272	253128
Jun-21	976.63	6826.70	29299	204801
Jul-21	882.42	5398.23	27355	167345
Aug-21	825.32	5116.61	25585	158615
Sep-21	665.13	4412.29	20619	136781

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2008 vide letter# F. No. J-11011//284/07- IA II (I) Period –April 2021 – September 2021

ANNEXURE -4

AMBIENT NOISE SUMMERY REPORT (DAY & NIGHT)

Name : M/s. Tata Steel Ltd, Hooghly Met Coke Div. Address : HFC Complex, Patikhali, Haldia, Purba Medinipur

		Junction House JH-7	Stamping Station	Employee Rest Room Near Occupational Health Centre	CCR	Patikhali Gate
1	Leq dB(A) day	72.3	71	65.2	60.6	67.1
2	Leq dB(A) night	68.2	65.2	55.3	53.7	62.1
3	Leq dB(A) Day Max	74.5	74.3	68	62.8	72.2
4	Leq dB (A) Day Min	68.4	66.9	56.8	57.5	62.7
5	Leq dB (A) Night	70.3	67.7	58.3	56	64
6	Leq dB (A) Night min	62	61.9	51.9	51.1	59.5

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2008 vide letter# F. No. J-11011//284/07- IA II (I)

Period – April 2021 – September 2021

ANNEXURE -5

1st Copy

Haldia, fatikhali P.O-Heldiavilrehi Haldia, furbamedisipur

West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinigur, West Bengal, Ph. No. -03224-278238 / 39 E-mail ; wbwml_haldia@ramky.com

West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinipur, West Bengal, Ph. No. -03224-278238 / 39 E-mail : wbwml_haldia@ramky.com

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	WANIFESTFOR	HAZARDOUS AND OTHER WASTE TATA STEEL LID., HOOGHLY METCOKED		Τ		HAZARDOUS AND OTHER WASTE TATA STEEL LTD, HMC
1	Sender's name and mailing address (including Phone No. and e-mail) :	PATIKHALI, HALDIA-721606 M-9231040230, alimale @ tatasteel. 144/25(HW)-2898/2013 1 15426	1		Sender's name and mailing address including Phone No. and e-mail) :	Haldia Patikhali P.O-Hold Haldia Purbamedicipur
2	Sender's authorization No. :	144125/HW)-289812013	2	S	ender's authorization No. :	(acor) in a construction of the
3	Manifest Document No. :	1 15426	3	N	fanifest Document No. :	1 15285
4	Transporter's name and address (including Phone No. and e-mail) :	West Bengal Waste Management Limitad J.L. No. 103, Mouze Purts Srinkrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purta Madingin, West Bengal, Ph. No03224-278238 / 39 E-mail : wbwml haldia@ramty.eem	4		ransporter's name and address including Phone No. and e-mail) :	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahal Dist. Purba Medinipur, West Bengal, Ph. No03224-27823 E-mail : wowml_haldia@ramky.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)	5	T	ype of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06	6	T	ransporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	11B-31N-0038	7	V	ehicle registration No. :	WB-31N-0085
8	Receiver's name and mailing address (including Phone No. and e-mail) :	West Bengal Waste Management Limited	8		Receiver's name and mailing address including Phone No. and e-mail) :	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahat Dist. Purba Medinipur, West Bengal, Ph. No03224-278238 E-mail : wwwnl_haldia@ramky.com
9	Receiver's authorization No. :	160/25(HW)-1506/2003 (Pt.1V)	9	R	Receiver's authorization No. :	160/2S(HW)-1506/2003(Pf
10	Waste description :	Empty Otl Drum, Oil Socked Jute a	10	D V	Vaste description : Waste	ceramic Blanket -
11	Total quantity No. of Containers :	23 Nos of Empty Drum	11		fotal quantity Io. of Containers :	
12	Physical form :	(Solid/Semi-Solid/Sloge/Oily/Tarry/Slurry/Liquid)	12	2 P	Physical form :	(Soild/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	HAZARDOUS WASTE, DO NOT MIX-1 SOP to FOLLOW. WITH OTHER	13	3 5	Special handling instructions and additional information	
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately descoler above by more aligning categorized, packet, market and anne and are labeled and an an all respects in proceedings or for transport by read according to specificate National Covernment Regulations. Signature The Day Month Year The Day Month Year The Day Month Year	14	\$ N	Name and stamp (EEL LIM)	Ihereby declare that the contents of the consignment are fully a described above by proper shipping categorized, packed, marked are labeled and are all respects in proper conditions for trans- seconding to applicable National Government Regulations. Signature Day Month S. Sam Mark 0 7 0 9 2 0
15	Transporter det Transporter det Transporter det Transporter det Transporter det Transporter de T	Signature of b Day Month Year [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] <td>15</td> <td>5</td> <td>Transporter acknowledge and of rec Name and stamp Africart Acharman</td> <td>Signature Day Month</td>	15	5	Transporter acknowledge and of rec Name and stamp Africart Acharman	Signature Day Month
16	Name and stamp	Signature Day Month Year	16	5	Vame and stamp	Signature Day Month
	Comparison of Control of Con	Signature Day Month Year IEUT BEN (* NLA) ABET Day Month Year IEUT BEN (* NLA) ABET Day Month Year OUT 2 Value Cocur related by IEUT society 2 Value Cocur related by IEUT society 4 Ontone Cobur Intel by IEUT society	16	6 N	Receiver's certification for receipt of	Signature Day Month Day Month Signature der 2. Yelow Colour retained by H±W 4. Orange Colour retained by H±W 4. Orange Colour retained by H±W