

Bhushan Power & Steel Ltd.
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JSWBPSL/ENV/MoEF & CC /032

18th December 2021.

The Additional Director General of Forest(C)
Ministry of Environment, Forest & Climate Change,
Eastern Regional Office, (EZ)
A/3, Chandrasekharpur,
Bhubaneswar, Pin-751023
Odisha.

Subject: Six Monthly Compliance Report (From April 2021 to September 2021) on stipulated conditions of Environmental clearance for 1.2.MTPA, 2.2 MTPA,2.8 MTPA, 3.0 MTPA and 5.5 MTPA Integrated Steel Plant of M/s Bhushan Power & Steel Limited located at village Thekoloi, Post Lapanga, Tehsil Rengali, District Sambalpur, Odisha.

- Reference-** i) EC for 1.2 MTPA vide letter no.J-11011/228/2003-IA II (I) Dated-12.05.2004
ii) EC for expansion of steel plant from 1.2 MTPA to 2.2 MTPA vide letter no. J-11011/372/2006-IA II (I) Dated-29.03.2007
iii) EC for expansion of steel plant from 2.2 MTPA to 2.8 MTPA vide letter no J-11011/40/2009-IA II(I) Dated 02.04.2010
iv) EC for expansion Steel plant from 2.8 MTPA to 3.0 MTPA vide letter no J-11011/40/2009-IA II(I) Dated 17.10.2012
v) EC for expansion of steel plant from 3.0 MTPA to 5.5 MTPA letter no J-11011/40/2009-IA-II(I),dated 06.12.2016.

Dear Sir,

With above subject matter and reference please find attached herewith six monthly compliance report for each of the above listed EC conditions for the period from April 2021 to September 2021 as per the detail below.

- i) EC compliance Report for 1.2 MTPA -**Attachment-1.**
- ii) EC Compliance Report for Expansion from 1.2 MTPA to 2.2 MTPA-**Attachment-2.**
- iii) EC Compliance Report for Expansion of MTPA 2.2 MTPA to 2.8 MTPA-**Attachment-3.**
- iv) EC Compliance Report for Expansion of 2.8 MTPA to 3.0 MTPA- **Attachments -4.**
- v) EC Compliance Report for Expansion of 3.0 MTPA to 5.5 MTPA- **Attachment-5.**

It can be seen above that latest EC is expansion for 3.0 MTPA to 5.5 MTPA vide letter no J-11011/40/2009-IA-II(I),dated 06.12.2016.In this regard it may please be noted that we have applied for amendment of this EC for expansion from 3.0 MTPA to 4.5 MTPA instead of 3.0 MTPA to 5.5 MTPA . Changes in plant configuration is enclosed as Attachment-6.

We have mailed this compliance report along with attachments and Annexure to the mail id roez.bsr-mef@nic.in on dated 18.12.2021 from the mail id cbs.sengar@jswbpsi.in.

In case of non receipt through email, request you to inform us, accordingly we will submit hardcopies in your good office by hand. Should you need any more information please feel free to contact us.

Thanking You,

Yours faithfully
For **Bhushan Power & Steel Limited**


18.12.21
Dr CBS.Sengar
Advisor-Environment

Hard copies submitted by post to:

1. The Member Secretary, SPCB, Parivesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Odisha, Bhubaneswar-751012
2. The Member Secretary, CPCB, Parivesh Bhawan, East Arjun nagar, Delhi-110032.

Half Yearly Compliance Report

For the Period from

April'2021 to September'2021

Capacity	Letter No	Date
5.5 MTPA	No J11011/40/2009-IA-II(I)	06/12/2016



JSWBhushan Power & Steel Limited

At-Thelkoloi, Post-Lapanga, Dist-Sambalpur,
Pin-768212, Odisha

**COMPLIANCE TO CONDITIONS OF LETTER
No-J-11011/40/2009-IA-II(I),dated 06.12.2016 for 5.5 MTPA**

A. Specific Condition:

i Condition:

The project Proponent shall install 24x7 air monitoring devices to monitor air emission as provided by the CPCB and submit report to ministry and its Regional office

Compliance Status:

- Gaseous emission level from various processes conforms to the load /mass based standard as notified by the Ministry on 19th May 1993 and standard prescribed from time to time. Carbon monoxide load/mass based level of coke oven is 0.32kg/ton to 0.50kg/ton of coke produced.
- Continuous Emission Monitoring systems have been installed in 40 numbers major stacks of DRI, CPP, Iron & Steel making process Units. List of Continuous emission Monitoring System enclose as **Annexure-I**
- Stack emission monitoring data by NABL accredited laboratory for the period April 2021 to September 2021 is enclosed as **Annexure-II**.
- In all the existing units adequate pollution control measures have been installed to maintain gaseous emission within prescribed standard. The list of Air Pollution control devices installed is enclosed as **Annexure-III**
- In the event of power failure in DRI automatically the DG starts and supply power to auxiliaries, hold the process and minimize the emission.



Opacity Monitor



Gas Analyser



Hg Analyser



CAAQMS

- Conditions:**
- ii **The project Proponent shall prepare R&R plan for the affected households in the core zone, including compensation to be paid and employment to be provided and submit the same to the Regional office of the Ministry of Environment, Forest and Climate Change, Bhubaneswar Odisha.**

Compliance Status:

Phase-1: For setting up of the 3.0 MTPA Integrated Steel Plant, BPSL had acquired in the year 2004 a land area of 1266 acres, through IDCO spread over Villages of Thelkolo, Khadiapali and Dhubenchapar under the Gram Panchayats of Khinda & Lapanga. Subsequent to an initial survey in 2003 165 families were identified as project affected families, needing R&R intervention. Necessary measures in line with the R&R plan has been implemented and is complete.

Phase-2: For expansion of the Integrated Steel Plant from capacity 3.0 MTPA to 5.5 MTPA, BPSL has acquired additional land of about 700 Acres adjacent to the existing plant spread over in Villages of Khadiapali, Dhubenchapper and Lapanga of Gram Panchayat Khinda & Lapanga. As per RPDAC, the R&R plan has been finalized with the district administration. About 106 families have been identified as project displaced families (PDF) which are required to be resettled in the R&R colony, for which about 50 Acres of land in village Lapanga & Khadiapalli has been acquired for construction of R&R colony for resettlement of all 106 families.

In view of the NCLT and COVID, the progress of R&R activity has been slow, and actions are now initiated to expedite the process. It may be noted that no project construction activity on the additional land acquired for expansion has been started,

- iii **Condition:**
Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz, Electrostatic precipitator (ESP), bag house, bag filters

etc, shall be provided to keep the emission levels below 50 mg/Nm³ and installing energy efficient technology.

Compliance Status:

- There are 40 numbers of Continuous Emission Monitoring system has been installed in all the major stacks of existing units of DRI, CPP, SMS, Blast furnace, Coke Oven. List of CEMS is enclosed as **Annexure-I**
- To control air pollution in different units Electrostatic Precipitator, bag house, Fumes treatment plan, wet scrubber etc has been installed. List of Air Pollution Control devices is enclosed as **Annexure-III**
- In proposed units we will ensure all ESP and Bag Houses emission level below 50 mg/Nm³.

iv

Condition:

Hot Gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely. The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack.

Compliance Status:

- All the DRI Units are connected with independent waste heat recovery boilers (WHRB).
- The hot gas of DRI Kiln is being used for power generation through Waste Heat Recovery boilers.
- Independent ESP's have been installed for all the DRI kilns.

v

Condition:

Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development. ETP sludge should be disposed off scientifically.

Compliance Status:

After taking over of the steel plant by JSW steel, we have initiated rain water harvesting study by below mention vendor to initiate proposed action plan suggested by the vendor.

- a. M/s KRG Rain water Foundation, Chennai
- b. M/s N& S Associates, Mumbai
- c. M/s D&D Ecotech Services
- d. M/s Water field Technologies, Mumbai

The work order is being released for rain water harvesting study.

The cooling tower blow down water is partially feeding into RO water plant after treatment in waste water treatment plants and rest part is being used in dust suppression, horticulture, fire fighting ,slag quenching ,ash quenching etc. ETP hazardous sludge is being disposed through authorize TSDF

vi

Condition:

All the coal fines, char from DRI plant shall be utilized and no char shall be used for briquette making or disposed off anywhere else. Scrap shall be used in steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.

Compliance Status:

Existing units solid wastes and utilization is as follows.

No	Waste Description	Utilization /disposal
01	Coal fines	Reused in Captive power plant
02	DRI char	Reused in Captive power plant
03	DRI accretion materials and refractory mass	Utilized in internal road and low lying area filling
04	SMS Slag	Metallic part recovered and residue utilized in road making and land filling as aggregate
05	Blast furnace slag	Entire quantity sold to the Cement plant
06	Mill scale and Scrap	Recycled in SMS

vii **Condition:**

All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coal mines shall be created within the Unit.

Compliance Status:

In the existing complex, nearly 50 Km length of roads are there for movement of vehicular traffic. The details are given below:

Total length within plant area : 50 Km
Concrete roads completed : 20 Km
Completion by March 2022 : 10 Km
Completion by October 2022 : Balance 20 Km

To control dust emissions following measures have been taken:

Three numbers of mechanized road sweepers has already been engaged. Orders have already been placed for additional 2 new mechanized road sweepers which will be delivered by December 2021.

Tree plantation has been done for the completed area and plantation along the new roads will be done which will help in maintaining complex clean and green.

Eight mobile water tankers have been engaged currently for spraying water on roads. In addition, two more multi-utility vehicles are being procured which will have facility for high pressure water jets, pressurized water sprinkling and water jet for cleaning tree leaves. These two additional vehicles are expected to be available by March 2022

Two numbers of wheel washing systems have been installed and additional four are also being planned in critical areas like RMHS and coke ovens area by March 2022.

vii **Condition:**

The standards issued by the Ministry vide G.S.R.No. 277(E) dated 31st March, 2012 regarding integrated iron and steel plant shall be followed.

Compliance Status:

- The standards issued by the Ministry vide G.S.R.No. 277(E) dated 31st March, 2012 regarding integrated iron and steel plant has been followed in existing plant and same will be implemented in the upcoming projects.

ix **Condition:**

The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.

Compliance Status:

- The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 has been followed in existing plant and same will be implemented in the upcoming projects. Ambient air Quality for the period April 2021 to September 2021 is enclosed as **Annexure-V**

Condition:

x **Gaseous emission levels including secondary fugitive emission from all the sources shall be controlled within the latest permission limits issued by the Ministry vide G.S.R414(E) dated 30th May, 2008 and regularly monitored. Guidelines/ code of Practice issued by the CPCB shall be followed.**

Compliance Status:

- In the existing units gaseous emission levels including secondary fugitive emission from all the sources has been controlled within the latest permission limits issued by the Ministry vide G.S.R414(E) dated 30th May, 2008 and regularly monitored.
- Guidelines/ code of Practice issued by the CPCB, Same will be followed in the future projects.
- Stack emission Result for the period April 2021 to September 2021 is enclosed as **Annexure - II** and Fugitive emission is as **Annexure- VI**

xi

Condition:

Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emission during loading and unloading of the raw material and finished product.

Compliance Status:

- Vehicles carrying raw materials and finished products are being covered with tarpaulin.
- Water sprinkling arrangement has been made at raw material handling areas to control dust emission during loading and unloading raw materials.
- Eight nos. Mobile water sprinkling tankers are engaged for regular water sprinkling on raw material transporting roads to control fugitive dust.
- Two nos. of Wheel washing system has been installed to clean the vehicle wheel and control the fugitive dust.
- Three nos. mechanized road sweeping machine are being used for dust extraction from the concrete road.
- Six numbers of mist beam has been installed at RMHS stock yard area for control of fugitive dust.

xii

Condition:

'Zero' effluent discharge shall be strictly followed and no waste water shall be discharged outside the premises.

Compliance Status:

As a measure of water conservation and also to ensure Zero liquid discharge, BPSL will be implementing the following schemes as per the schedule:

- a. Installation of 500 m3/h RO plant for treating wastewater blow downs from the existing plant area: Completed and is in operation. Producing RO water of 7000 to 7500 m3/day of RO Water. The produced RO Water is being used for cooling tower make up and DM water plant feed.
- b. Up-gradation of Sewage Treatment Plants: Completion : by Dec 2021
- c. Separation of effluent from storm water runoff water : by Jan 2022
- d. Up-gradation of ETP of Cold Rolling Mill : by June 2022.
- e. Reduced the blow down water fro individual shops : by Jan.2022
- f. Increase the cooling tower cycle of concentration : By Jan.2022
- g. Coke oven Zero liquid discharge plant of capacity (100 m3/hr) : By March 2023

xiii

Condition:

Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent.

Compliance Status:

- Regular monitoring of effluent, surface and ground water has been carried out by the third party and regularly report submitted to the OSPCB.
- Monitoring result for the period April2021 to September2021 is enclosed as **Annexure-IX** for treated effluent & **Annexure-VII**- for Ground Water.

xiv

Condition:

Proper handling, storage, utilization and disposal of all the solid waste shall be ensure and regular report regarding toxic metal content in the waste material and its composition, and use of solid/hazardous waste shall be submitted to the Ministry's Regional Office, SPCB and CPCB.

Compliance Status:

- Presently all the waste segregated at the source and as per the guide line of the OSPCB/CPCB the wastes are disposed.

Details of Solid waste utilization is as follows

No	Units	Solid waste	Utilization
01	BF	BF Slag	The entire slag generating from BF is granulated and sold to cement manufacturers.
02	SMS	SMS slag	Slag is being crushed and the metallic content is recovered and recycled through Sinter Plant .The residue after recovery is used for

			internal road making and in leveling of low lined areas in the plant.
03	DRI	Char	Char generate from DRI unit is blended with coal and used in AFBC and CFBC boilers of Captive Power plant
04	CSP & Rolling Mill	Scales & derbies from CSP and Rolling mill	Scales and debris generating from rolling mill and SMS is recycled in Sinter Plant
05	Different Units	Scrap	Recycled In Steel melting shop

- The TCLP Test result of all the waste is enclosed as **Annexure-.XI**

xv

Condition:

A time bound action plan shall be submitted to reduce solid waste generated due the project related activity, its proper utilization and disposal.

Compliance Status:

- The solid waste generation due to project related activity will be segregated properly disposed as per the guide line of the OSPCB/CPCB.
- Time bound action plan will be submitted after amendment of the Environment Clearance.
- Micro pellet plant of capacity 1200 T /day and mill scale briquetting plant of capacity 200 T/day is under technical discussion to recycle total amount of dust, sludge and mill scales.
- Incinerator of capacity of 300 kg /hr is under technical discussion to dispose the incinerable process hazardous waste.

xvi

Condition:

Utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 as amended. All the fly ash shall be provided to cement and brick manufacturer for further utilization and Memorandum of Understanding shall be submitted to the Regional Office of the Ministry, Bhubaneswar.

Compliance Status:

- The ash generated from CPP is being utilized in different area like fly ash brick, Low lying area filling, embankment rising and Quarry void filling. In the year 2021-22 till Sept.2021 we have utilized is 99.0% of total ash.
- Fly ash is also being supply to 55 numbers of fly ash based brick manufacturing units free of cost and provide transportation subsidy @150/Ton of ash lifted in and around Jharsuguda, Sambalpur, Sundargarh and Deogarh District of Odisha for maximum utilization of ash.

Condition:

xvii

A Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.

Compliance Status:

- A Risk and Disaster Management Plan incorporating the expansion project will be submitted after amendment of the environment clearance.

xviii

Condition:

Green belt shall be developed in at least 33% of the project area by planting native and broad leaved species in consultation with local communities as per the CPCB guidelines.

Compliance Status:

- We have constantly increases every year green coverage areas.
- We have developed 146 acre within existing plant.
- The action plan for the greenbelt and plantation is as follows.

No	Proposed greening areas in Acres	Target
1	Within existing plants 146 Acres gap filling	2022-23
2	120 Acres	2023-24
3	120 Acres	2024-25
4	120 Acres	2025-26
5	120 Acres	2026-27
6	152 Acres	2027-28
	778 Acres	33% green coverage

xix

Condition:

All the commitments made to the public during Public Hearing/public consultation meeting shall be satisfactory implemented as adequate budget provision shall be made accordingly.

Compliance Status:

All the commitments made to the public during Public Hearing/public consultation meeting will be implemented and the details of physical targets are given as per following tables

No	Issue raised	Proposed action by project proponent	Schedule		
			By FY 2022	FY 2023	FY 2024
1	Air & water pollution problems due to project	a. Installation of state of the art Air Pollution control facilities (30mg/NCum) b. Zero liquid discharge implementation c. Greenbelt in and around the plant	Finalization of technical specifications and placement of orders	Air & water pollution control facilities. Zero liquid discharge	Green Belt

2	Road construction in Villages	Roads construction after discussion with stakeholders	-	Khadiapali	Dhubenchapper
3	Establishment of technical training centre at Village Dubhencher	Technical training Institute to established for skill development	-	Infrastructure like building, laboratory, workshop computer center etc	Start of first batch of youths (100) from nearby villages
4	Construction of Jagannath temple at Khadiapali	Completed	-	-	-
5	Facilities related to education, health, communication & Drinking water	Facilities for health, education & communication will be established as per requirement after discussion with stakeholders	Thekoloji Lapanga	Khinda Dhubenchapper Khadiapali	Matlucamp Thekoloji Lapanga
6	Emphasis on water harvesting and tree plantation	To be developed	Feasibility study for rain water harvesting. Identification of land for greenery development	Establishing rainwater harvesting structures Plant (75%) and villages (3Nos)	Establishing rainwater harvesting structures Plant (25%) and villages (3Nos)
7	Construction of pond in Khariapali and Dubhencher		-	Khariapali	Dubhenchapper
8	Facilities like education, health along with hospital	Augmentation of primary health centers in surrounding panchayat		Dhubenchapper	Khariapalli
9	All facilities for people as per govt. policies	Facilitate villagers to avail all facilities under various Govt policies	1 villages	3 villages	3 villages
10	Drinking water facilities for	Provide pipeline based drinking water to nearby panchayats by installing	1 Village	3 Village	3 Village

	local villager	water overhead tanks			
11	Facilities related to education like teachers for school	Knowledge building of teachers on using modern available teaching aids for better communication	-	3 villages	3 villeges

xx

Condition:

An amount of Rs.458 crores shall be earmarked towards the Enterprise Social Commitment for a period of 10 years for implementing activities based on Public Hearing issues, local needs and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.

Compliance Status:

- As directed an amount of Rs.458 crores will be earmarked towards the Enterprise Social Commitment and will be spent within a period of 10 years for implementing activities based on Public Hearing issues, local needs and item-wise details
- An action plan for proper utilization of the fund will be prepared and submitted to the Ministry's Regional Office shortly. Also a Committee comprising of the proponent, representatives of village panchayat and District Administration will be formed for monitoring of the works.

xxi

Condition:

The proponent shall prepare a detailed CSR plan for every year for the next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, sanitation, Health, Skill Development ad infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR plan will include the amount of 2 % retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2 % of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the plan shall be submitted as part of the Compliance Report to RO. The details the the CSR plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.

Compliance Status:

The Details of CSR activities and Peripheral Development work has been done so far in surrounding area is given below. It may please be noted that nearly Rs 60 crores have been spent on CSR activities surrounding the plant. BPSL under the new Management is in the process of preparing a comprehensive CSR plan for implementation in the next three years in line with the guidelines of corporate CSR of JSW Steel.

No	Year	Activities Description	Expenditure in Crores (Rs)
1	2005-13	Road and infrastructure, village pond and water supply, school facilities and club houses, Religious construction / community facilities and other activities	32.04
2	2014-15		9.03
3	2015-16		7.34
4	2016-17		6.47
5	2017-18		2.90
6	2018-19		1.61
7	2019-20		0.40
8	2020-21		0.62
	Total		Rs 60.41 Cr
9	2021-22	CSR projects in progress	Rs 10.00 Cr (Budget allocated for this year)

xxii

Condition:

The company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to bring into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) system of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.

Compliance Status:

In line with the MoEF & CC guidelines, the physical targets for implementation under CER has been given as follows.

No	Issue raised	Proposed action by project proponent	Schedule		
			By FY 2022	FY 2023	FY 2024
1	Air & water pollution problems due to project	a. Installation of state of the art Air Pollution control facilities (30mg/NCum) b. Zero liquid discharge implementation c. Greenbelt in and around the plant	Finalization of technical specifications and placement of orders	Air & water pollution control facilities. Zero liquid discharge	Green Belt
2	Road construction in Villages	Roads construction after discussion with stakeholders	-	Khadiapali	Dhubenchapper
3	Establishment of technical training centre at Village	Technical training Institute to established for skill development	-	Infrastructure like building,	Start of first batch of youths

	Dubhencher			laboratory , workshop computer center etc	(100) from nearby villages
4	Construction of Jagannath temple at Khadiapali	Completed	-	-	-
5	Facilities related to education, health, communication & Drinking water	Facilities for health, education & communication will be established as per requirement after discussion with stakeholders	Thelkoloji Lapanga	Khinda Dhubench apper Khadiapali	Matlucamp Thelkoloji Lapanga
6	Emphasis on water harvesting and tree plantation	To be developed	Feasibility study for rain water harvesting. Identificatio n of land for greenery developme nt	Establishi ng rainwater harvesting structures Plant (75%) and villages (3Nos)	Establishin g rainwater harvesting structures Plant (25%) and villages (3Nos)
7	Construction of pond in Khariapali and Dubhencher		-	Khariapali	Dubhenchh aper
8	Facilities like education, health along with hospital	Augmentation of primary health centers in surrounding panchayat		Dhubench apper	Khariapalli
9	All facilities for people as per govt. policies	Facilitate villagers to avail all facilities under various Govt policies	1 villages	3 villages	3 villages
10	Drinking water facilities for local villager	Provide pipeline based drinking water to nearby panchayats by installing water overhead tanks	1 Village	3 Village	3 Village
11	Facilities related to education like teachers for school	Knowledge building of teachers on using modern available teaching aids for better communication	-	3 villages	3 villeges

xiii

Condition:

The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.

Compliance Status:

- As directed solar light system for all common areas in the proposed expansion will be provided.

xxiv

Condition:

The Project proponent shall provide for LED lights in their offices and residential areas.

Compliance Status:

- As directed we have replaced with LED lights in all the offices and residential areas existing plant. It also will be implemented in the project areas.

xxv

Condition:

Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

Compliance Status:

Adequate numbers of Lunch shelters/Canteens have been planned in entire complex at various locations depending on numbers of workers deployment and these will be completed by May 2022. These shelters will be provided with necessary facilities like, suitable ventilation, toilets and drinking water.

B. General Conditions:

i

Condition:

The Project authorities must strictly adhere to the stipulations made by the Odisha pollution Control Board and the State Government.

Compliance Status:

- All relevant stipulations made by Odisha State Pollution Control Board and state government are being complied.

ii

Condition:

No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and climate Change (MOEFCC).

Compliance Status:

- No expansion or modification has been carried out without prior approval of Ministry of Environment Forest and Climate Change.

iii

Condition:

At least four ambient air quality monitoring stations should be established in the downwind direction as well as where maximum ground level concentration of PM₁₀, PM_{2.5}, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.

Compliance Status:

Three numbers of Continuous Ambient Air Quality Monitoring Stations have been installed within plant.

- o CAAQMS-1-Near Township
- o CAAQMS-2 Near Railway Gate
- o CAAQMS-3-Behind CRM
- All stations have been established in consultation with the regional office OSPCB.
- The 4th station will be installed by 31st March 2022 in consultation with the Regional Office of OSPCB.
- The monitoring report is being submitted in the Regional offices of Ministry as well as OSPCB regularly

iv

Condition:

Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.

Compliances:

- Presently three numbers of waste water treatment plants are in operation for treatment of waste water generating in the existing plant. ETP and BETP have been installed for treatment of process waste water from existing plant. The detail units and capacities as follows.

Sr. no	Name of facility	Capacity
01	Waste water Treatment plant-1	750 M3/hr
02	Waste water Treatment plant-2	750 M3/hr
03	Waste water Treatment plant-2	750 M3/hr
04	Effluent treatment Plant-CRM	500KLD(After revamping 1200 KLD)
05	Biological Effluent Treatment Plant	75 M3/hr
06	Sewage Treatment Plant-1	700 KLD
07	Sewage Treatment Plant-2	900 KLD
08	Sewage Treatment Plant-3	900 KLD
09	Reverse Osmosis Plant	500 M3/hr

- The entire treated water is being used inside the plant in various applications such as ash conditioning, sprinkling, horticulture, firefighting, etc.
- For the upcoming project as per EIA/EMP report the waste water & effluent will be treated and utilized

v

Condition:

The overall noise levels in and around the plant area shall be kept well within the standard 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB (A) day time and 70

dB(A) night time.

Compliances:

- All the noise prone areas such as turbine houses and compressor houses have been provided with adequate silencer and acoustics enclosure for meeting the standard prescribed under EPA Rules. The ambient noise level monitoring report for the period from April 2021 to September 2021 is enclosed as **Annexure-X(A) & (B)**

vi **Compliance Status:**

Occupational Health Center (OHC) at Bhushan Power and Steel Limited is centrally located inside the plant premises just adjacent to Administrative Building & Fire and Safety department and started in to operation long back in the year 2007. We have 5 doctors (two of them are AFIH qualified) and 30 paramedical staff working round the clock to provide first aid to sick and injured. The main objectives of this center are to provide Basic Life support to injured and ill employees, who are on duty, Occupational health care to employees, Health awareness development among employees and to bring continual improvement of health and wellbeing of employees.

Major activities of OHC include.

1. Pre-Employment Medical Examination.
2. Periodic Medical Examination.
3. Medical Examination for employees after injury and illness recovery.
4. Medical Fitness in case of infectious diseases.
5. Infectious disease screening.
6. Executive Health check up of Employees above 40 years.
7. Immunization against infectious diseases.
8. Health monitoring incase of infectious diseases.
9. Providing and maintaining first aid boxes in various areas of plant.
10. Health education and staff training.
11. Vision test.
12. Prevention of injury and illness during summer, winter and rainy season.
13. Providing assistance to other department like Safety for Accidents investigation and effective participation in promoting best safety and environmental practices.
14. Blood donation camp.

BPSL is having following facilities for providing health care to employees-

1. Essential drug delivery through pharmacy.
2. X ray services for diagnosis of musculoskeletal and internal abnormalities.
3. Pathology section for conducting bedside diagnosis and disease screening.
4. ECG facility to rule out cardiac abnormality.
5. Physiotherapy set up to manage pain and stiffness in musculoskeletal illness and injury.
6. Minor OT to repair wound and Dressing of wounds and ulcers.
7. Clinic for diagnosis of common disease and injuries.
8. Basic and Advanced Ambulance services.
9. Facility for online training on preventable diseases.
10. Audiometry Booth for diagnosis of hearing losses.



Occupational Health Centre

- vii **Condition:**
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.
Compliances:
After taking over of the steel plant by JSW steel, we have initiated rain water harvesting study by below mention vendor to initiate proposed action plan suggested by the vendor.
a. M/s KRG Rain water Foundation, Chennai
b. M/s N& S Associates, Mumbai
c. M/s D&D Ecotech Services
d. M/s Water field Technologies, Mumbai
The work order is being released for rain water harvesting study.
- vii **Condition:**
The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
Compliances:
- As described in the EIA/EMP report all the Environmental protection measures implemented in the project.
 - BPSL continuously undertaking various community developments activities under its socio-economic development programme .These included construction /renovation of primary and secondary schools in nearby villages, providing financial assistances to educational institutions, construction of roads, construction of temples, providing drinking water, etc.
 - Company is regularly conducting free health camps in association with District Administration and provide free of cost medicines to the patients.
- ix **Condition:**
Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry and Environment, Forest and Climate Change (MOEFCC) as well as the state

Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.

Compliances:

- The funds allocated for installation of pollution control equipments and implementing environmental protection measures is being judiciously utilized to fulfill the conditions stipulated by the Ministry of Environment and Forests as well as State pollution Control Board.
- The details of expenditure for environment pollution control measures are given as follows

No	Pollution Category	Units	Pollution control systems	Nos.	Capital cost in Crores (Rs)
01	Air Pollution Management	Power Plant, DRI Sinter Plant Pellet Plant	ESP	25	222
		DRI Sinter Plant Lime Plant RMHS Blast Furnace Coke Ovens	Bag filters	23	65
		Blast Furnace 1	Dry GCP	1	5.0
		Blast Furnace 2	Wet GCP	1	6.0
		SMS-1 & SMS 2	Fumes Treatment Plant(FTP)	5	125
		CRM Pickling Plant & ARP	Wet Scrubber	8	24
		RMHS	Dry fog system		1.0
		Road cleaning	Wheel washing system	2	1.0
			Road Sweeper	3	1.5
		Total			Rs 450.5 Cr
02	Water Pollution Management	Waste Water	Waste water Treatment Plant	03	30
		Runoff tanks (ARP)	Runoff water cascading	01	

		CRM	ETP	01	5
		Coke Oven-2	BETP	01	10
		Utility	RO Plant	01	30
		Township	STP	3	9
		Coal Washery & Beneficiation plant	Thickener and Settling pond		34
		Total			Rs 120 Cr
03	Ash Management	CPP	Pneumatic conveying and storage silo	10	20
		DRI	Pneumatic conveying and storage silo	5	10
		Total			Rs 30 Cr
		Grand Total			Rs 600.5 Cr

x

Condition:

A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad /Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be out on the web site of the company by the proponent.

Compliances:

- Information regarding issue of environmental clearance by the ministry was given at local Panchayat.

xi

Condition:

The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

Compliances:

The six-monthly compliance status report of the stipulated conditions has been uploaded in company's website www.bhushanpowersteel.com. Currently, the new website for JSWBPSL is under construction. Soon after completion of the site we will upload all relevant documents in the website and the url will be submitted.

The compliance reports along with monitoring data in hard copy are regularly being submitted at the Regional office of MoEF&CC as well as OSPCB/CPCB.

xii **Condition:**
The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.

Compliances:

- Six monthly compliance reports along with monitoring data are regularly being submitted at the Regional Office of MoEF&CC as well at OSPCB/CPCB.
- Last six monthly compliance with monitoring reports was submitted vide letter no-JSWBPSL/ENV/MoEF & CC /01 on Dated- 30.06.2021

xiii **Condition:**
The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF&CC at Bhubaneswar by e-mail.

Compliances:

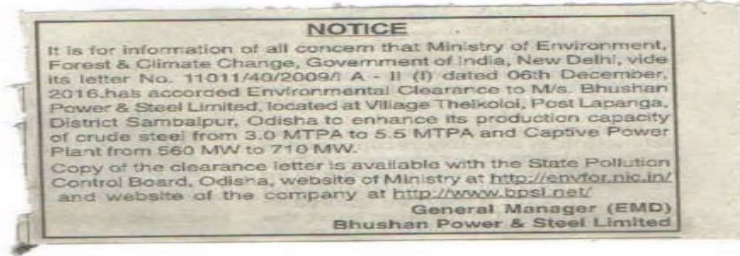
- Environmental statement in Form – V has been submitted to OSPCB and Regional Office MoEF & CC, Bhubaneswar for the financial year ending 31st March,2021 vide our letter No-JSWBPSL/ENV/OSPCB/21 dated 25th September 2021 as per guidelines.

xiv **Condition:**
The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate change (MOEF&CC) at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar.

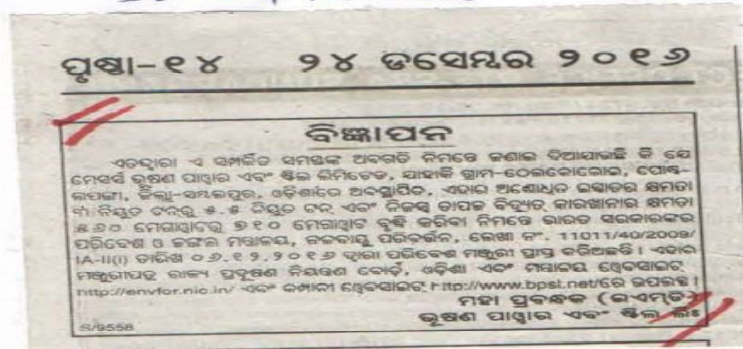
Compliances:

- Information regarding issue of EC was published in local news papers and copy of the letter has been submitted at OSPCB, Regional Office of MoEF&CC and at the offices of local Panchayat.

INDIAN EXPRESS
Dt. 24.12.2016



odia daily - SAMAJ
Dt. 24.12.2016



xv

Condition:

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.

Compliances:

The date of financial closure for 5.5 MTPA is not applicable as it is proposed to revise the capacity and to amend the capacity of expansion from 3.0 MTPA to 4.5 MTPA in place of 5.5 MTPA. The date of closure of 4.5 MTPA shall be submitted within three months of receipt of EC for 4.5 MTPA.

List of Annexure

Annexure No	Description
Annexure-I	List of Continuous Emission Monitoring System
Annexure-II	Stack Monitoring Report (Apr.21 to Sept.21)
Annexure-III	List of Air Pollution Control Devices
Annexure-IV	Location map of CAAQMS approved by OSPCB
Annexure-V	Ambient Air Quality Monitoring Report(April21to Sept21)
Annexure-VI	Work Zone Fugitive Emission Monitoring Report(Apr.21 to Sept.21)
Annexure-VII	Ground water analysis Report (Apr.21 to Sept.21)
Annexure-VIII	Compliance to CREP conditions
Annexure-IX	Treated effluent and waste water Analysis report (Apr.21 to Sept.21)
Annexure-X(A)	Work Zone Noise Monitoring Report(Apr.21 to Sept.21)
Annexure-X(B)	Ambient Noise Monitoring Report(Apr.21 to Sept.21)
Annexure-XI	Solid and Hazardous waste analysis Report

Annexure-I

List of Continuous Emission Monitoring System			
No	Station Id	Location	Parameter
1	CEMS-1	DRI-WHRB-1 Stack	PM
2	CEMS-2	DRI-WHRB-2 Stack	PM
3	CEMS-3	DRI-WHRB-3 Stack	PM
4	CEMS-4	DRI-WHRB-4 Stack	PM
5	CEMS-5	DRI-WHRB-5 Stack	PM
6	CEMS-6	DRI-WHRB-6Stack	PM
7	CEMS-7	DRI-WHRB-7Stack	PM
8	CEMS-8	DRI-WHRB-8Stack	PM
9	CEMS-9	DRI-WHRB-9 Stack	PM
10	CEMS-10	DRI-WHRB-10 Stack	PM
11	CEMS-11	DRI-WHRB-11 & 12 Stack	PM
12	CEMS-12	DRI-Dedusting 1&2 Stack	PM
13	CEMS-13	DRI-Dedusting 3&4 Stack	PM
14	CEMS-14	DRI-Dedusting 5&6 Stack	PM
15	CEMS-15	DRI-Dedusting 7&8 Stack	PM
16	CEMS-16	DRI-Dedusting 9 &10 Stack	PM
17	CEMS-17	DRI-Dedusting11&12 Stack	PM
18	CEMS-18	CPP 3x130MW UNIT-1	PM,SO2,NOx,Hg
19	CEMS-19	CPP 3x130MW UNIT-2	PM,SO2,NOx,Hg
20	CEMS-20	CPP 3x130MW UNIT-3(CFBC-5)	PM,SO2,NOx,Hg
21	CEMS-21	CPP3x130 MW Unit-3 (CFBC-6)	PM,SO2,NOx,Hg
22	CEMS-22	CPP 60 MW Stack	PM,SO2,NOx,Hg
23	CEMS-23	CPP 40 MW Stack	PM,SO2,NOx,Hg
24	CEMS-24	SMS-1 FTP-1	PM
25	CEMS-25	SMS-1 FTP-2	PM
26	CEMS-26	SMS-1 FTP-3	PM
27	CEMS-27	SMS-1 FTP-4	PM
28	CEMS-28	SMS-2 FTP	PM
29	CEMS-29	Pellet Plant processStack	PM,SO2,NOx
30	CEMS-30	Pellet Plant Dedusting	PM,
31	CEMS-31	Coke Oven -1 Stack-1	PM,SO2,NOx,CO
32	CEMS-32	Coke Oven-1 Stack-2	PM,SO2,NOx,CO
33	CEMS-33	Coke Oven -2 Process stack	PM ,SO2,NOx,CO
34	CEMS-34	Coke Oven -2 Dedusting Stack	PM
35	CEMS-35	BF-2 Casthouse Bagfilter Stack	PM,SO2,NOx,CO
36	CEMS-36	BF-2-Bagfilter connected to Stock House	PM
37	CEMS-37	BF-1Casthouse bagfilter stack	PM
38	CEMS-38	BF-1 GCP stack	PM
39	CEMS-39	Sinter plant-1 Charging Stack	PM,SO2,NOx
40	CEMS-40	Sinterplant-1 Discharging stack	PM

Annexure-II

Stack Monitoring Report								
Period from April-21 to September-21								
No	Stack Name	[Particulate Matter (mg/Nm ³)]						Standard mg/Nm ³
		Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	
1	DRI/WHRB-A	20.6	24.2	27.5	19.9	18.2	14.6	50.00
2	DRI/WHRB-B	23.4	22.5	20.8	39.4	39.1	S/d	50.00
3	DRI-A & B -Dedusting	29.8	26.7	25.3	32.2	17.9	22.2	50.00
4	DRI/WHRB-C	25.6	23.7	22.6	21.1	23.5	41	50.00
5	DRI/WHRB-D	30.7	27.8	29.2	26.2	15.0	27.9	50.00
6	DRI-C & D -Dedusting	34.6	29.1	31.3	35.6	12.6	25.7	50.00
7	DRI/WHRB-E	15.7	19.4	17.8	23.1	13.7	24.6	50.00
8	DRI/WHRB-F	15.6	16.2	16.2	16.6	12.4	21.6	50.00
9	DRI-E & F -Dedusting	29.7	24.3	23.7	33.0	17.1	18.1	50.00
10	DRI/WHRB-G	22.6	25.1	21.2	46.2	19.3	14.1	50.00
11	DRI/WHRB-H	20.4	21.5	19.4	19.9	16.1	18.4	50.00
12	DRI-G & H -Dedusting	35.8	30.3	28.8	35.3	14.9	13.7	50.00
13	DRI/WHRB-I	25.7	23.8	22.6	19.0	15.5	17.8	50.00
14	DRI/WHRB-J	21.8	22.3	19.7	16.9	14.5	17.5	50.00
15	DRI-I & J -Dedusting	27.5	25.3	31.5	30.6	16.4	17.5	50.00
16	DRI/WHRB-K & L	Shut down	39.5	37.5	32	20.8	24.6	50.00
17	DRI-K & L -Dedusting	Shut down	37.8	34.3	28.6	19.75	19.8	50.00
18	Power Plant 40MW	42.5	43.8	42.0	38.2	26.6	22.1	50.00
19	Power Plant 60MW	45.7	42.4	40.8	47.0	44.3	44.1	50.00
20	Power Plant 130MW-I	39.8	45.2	47.6	48.4	48.8	38.3	50.00
21	Power Plant 130MW-II	42.4	40.7	41.0	49.4	45.6	47.3	50.00
22	Power Plant 130MW-III (CFBC-5)	44.6	45.8	43.2	32.5	17.1	48.2	50.00
23	Power Plant 130MW-III(CFBC-6)	34.6	41.6	41.8	27.1	22.3	45.7	50.00
24	Sinter Plant Charging stack	44.0	41.4	38.8	44.4	43.2	38.0	50.00
25	Sinter Plant Discharging Stack	38.8	40.6	37.4	36.8	35.1	36.7	50.00
26	Sinter Plant De-dusting-I	41.2	36.7	46.8	35.8	32.8	33.9	50.00
27	Sinter Plant De-dusting-II	42.1	39.5	42.5	29.9	33.9	35.0	50.00
28	WHRB of coke oven Stack-I	43.1	41.7	42.5	37.3	23.7	45.8	50.00
29	WHRB of coke oven Stack-II	43.2	40.4	42.3	30.0	21.2	35.5	50.00
30	SMS-I-FTP-1	24.7	25.8	21.7	18.4	15.4	13.8	50.00
31	SMS-I,FTP-2	20.8	22.3	27.8	28.32	21.28	26.54	50.00
32	SMS-I FTP-3	21.6	22.4	22.7	21.1	13.65	19.56	50.00
33	SMS-I-FTP-4	13.4	15.1	19.5	46.5	21.5	15.7	50.00
34	SMS-II-FTP	19.0	18.2	17.6	25.4	17.98	22	50.00
35	Lime Kiln-I	30.4	32.5	43.7	48.0	40.7	37.0	50.00

36	Lime Kiln-II	35.6	38.3	40.8	45.6	42.3	33.8	50.00
37	Lime Kiln-III	47.1	44.6	41.7	43.1	38.8	36.2	50.00
38	Blast Furnace-1 Cast house De- dusting	40.7	38.4	41.8	41.4	34.1	44.02	50.00
39	Blast Furnace-2 Cast house De- dusting	39.3	41.7	37.8	25.87	21.9	23.22	50.00
40	Pellet Plant De-dusting	40.2	37.6	39.8	38.2	23.7	21.9	50.00
41	Pellet Plant Wind Box	43.6	42.2	41.8	48.8	49.3	39.8	50.00
42	Coke Oven-2 ,Process Stack	26.6	29.3	43.8	36.75	27.8	38.56	50.00
43	Coke Oven-2 ,Dedusting Stack	15.1	17.8	21.6	26.3	13.34	11.39	50.00

List of Air Pollution Control Device

S.N	Name Of the Unit	Pollution Control System	Capacity in (NM ³ /hr)	Stack height in mtr
DRI Plant				
1.	DRI/WHRB-1	Electro Static Precipitator	120000	76
2	DRI/WHRB-2	Electro Static Precipitator	120000	76
3	DRI/WHRB-3	Electro Static Precipitator	120000	76
4	DRI/WHRB-4	Electro Static Precipitator	120000	76
5	DRI/WHRB-5	Electro Static Precipitator	250000	76
6	DRI/WHRB-6	Electro Static Precipitator	250000	76
7	DRI/WHRB-7	Electro Static Precipitator	280000	76
8	DRI/WHRB-8	Electro Static Precipitator	280000	76
9	DRI/WHRB-9	Electro Static Precipitator	280000	76
10	DRI/WHRB-10	Electro Static Precipitator	280000	76
11	DRI/WHRB-11	Electro Static Precipitator	210000	76
12	DRI/WHRB-12	Electro Static Precipitator	210000	76
13	DRI Dedusting-5&6	Electro Static Precipitator	250000	45
14	DRI Dedusting 7&8	Electro Static Precipitator	250000	45
15	DRI De dusting 9&10	Electro Static Precipitator	350000	45
16	DRI De dusting 1&2	Bag filter	350000	45
17	DRI De dusting 3&4	Bag filter	350000	45
18	DRI De dusting 11&12	Bag filter	350000	45
Captive Power Plant				
19	CPP 40 MWAFC-1	Electro Static Precipitator	143000	76

20	CPP 60 MWAFC-2	Electro Static Precipitator	286000	95
21	CPP 3x130 MW Unit-1 CFBC-1	Electro Static Precipitator with hybrid Bag filter	650000	120
22	CPP 3x130 MW Unit-1 CFBC-2	Electro Static Precipitator	650000	120
23	CPP 3x130 MW Unit-2 CFBC-3	Electro Static Precipitator	650000	120
24	CPP 3x130 MW Unit-2 CFBC-4	Electro Static Precipitator	650000	120
25	CPP 3x130 MW Unit-3 CFBC-5	Electro Static Precipitator	650000	120
26	CPP 3x130 MW Unit-3 CFBC-6	Electro Static Precipitator	650000	120
Blast Furnace-1				
27	BF-Dry gas cleaning	Bag House, Gas Cleaning Plant	180000	30
28	BF-Cast house	Dust catcher Bag filter	220000	45
Blast Furnace-2				
29	BF-Stock House	Bag filter	610000	45
30	BF-Cast House	Bag filter	850000	45
Sinter Plant-1				
31	Sinter Plant Charging	Electro Static Precipitator	570000	75
32	Sinter plant Discharging	Electro Static Precipitator	450000	40
33	Sinter plant Dedusting	Electro Static Precipitator	190000	40
34	Sinter plant De dusting (Proportional Buiding)	Electro Static Precipitator	190000	40
Coke Oven -2				
35	Pushing Emission Control System	De dusting System (Bag filter)	504000	45
Steel Melting Shop-1				
36	SMS-1 EAF& LF -1	Fume Treatment Plant-1 (Bag House)	15000000	45
37	SMS-1 EAF&LF-2	Fume Treatment Plant-1 (Bag	15000000	45

		House)		
38	SMS-1 EAF&LF-3	Fume Treatment Plant-3(Bag House)	14310000	45
39	SMS EAF&LF-4	Fume Treatment Plant-4(Bag House)	14310000	45
Steel Melting Shop-2				
40	SMS-2 EAF & LF	Fumes Treatment Plant(Bag House)	2328000	45
RMHS				
41	Crushing & screening areas of RMPP-1 Ore circuit	09 nos. of Bag Filter & Dry Fog System	50000	30
Lime & Dolo Plant				
42	Lime Plant-1	Bag Filter	50000	50
43	Lime Plant-2	Bag Filter	50000	50
44	Lime Plant-3	Bag Filter	50000	50
CRM Complex				
45	Acid Regeneration Plant	Wet Scrubbers	11530	34
46.	Pickling Plant	Wet Scrubbers	15716	32
Wire Rod & Bar Mill				
47	Re heating furnace	De dusting System/Bag filter	10000	85
48	De dusting	De dusting System/Bag filter	15000	34
Pellet Plant				
49	Wind box	Electro Static Precipitator	984000	45
50	Hood Exhaust	Electro Static Precipitator	420000	45
51	De dusting	Electro Static Precipitator	240000	45

Annexure-V

Summary of Ambient Air Quality Monthly Average Value

Ambient Air Quality Monitoring Station -1 Near Township

Month	Pollutant	PM ₁₀	PM _{2.5}	SO ₂	NO _x	O ₃	CO
	Standard	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	100(µg/m ³)	2 (µg/m ³)
April-21		57.00	29.50	9.30	17.7	6	0.28
May-21		58.80	31.60	9.00	17.3	6.4	0.32
June-21		59.00	32.60	9.20	19.10	7.60	0.38
July-21		57.9.5	32.9	11	12.5	6.8	0.32
August-21		58.60	29.30	10.80	19.6	6.4	0.25
September-21		56.80	30.00	10.60	18.8	7	0.28

Ambient Air Quality Monitoring Station -2 Near Railway Gate

Month	Pollutant	PM ₁₀	PM _{2.5}	SO ₂	NO _x	O ₃	CO
	Standard	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	2 (µg/m ³)
April-21		56.10	29.20	11.50	20.40	6.40	0.28
May-21		59.40	32.80	11.00	21.30	7.20	0.34
June-21		57.80	31.70	11.60	22.20	7.10	0.35
July-21		56.70	28.32	10.5	18.4	6.7	0.28
August-21		58.50	29.90	12.70	19.90	7.00	0.30
September-21		57.26	30.50	11.50	19.80	7.10	0.32

Ambient Air Quality Monitoring Station -3 Behind CRM

Month	Pollutant	PM ₁₀	PM _{2.5}	SO ₂	NO _x	O ₃	CO
	Standard	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	2 (µg/m ³)
April-21		56.80	28.70	9.50	16.7	6.1	0.27
May-21		57.30	31.2	10.1	16.8	7	0.31
June-21		56.20	30.5	11	20.7	7.2	0.35
July-21		60.30	32	10.5	17.4	6.7	0.32
August-21		58.70	31.4	9.7	18	6.8	0.29
September-21		57.70	29.20	9.80	17.5	7	0.28

Annexure-VI

Fugitive Emission Results (Apr.21 to Sept.21)

No	Sampling Location	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Standard in (µg/m ³)
1	Blast Furnace-I,Cast House	2018.28	1902.84	1842.93	1189	1230	805.78	4000
2	Blast Furnace-I,Stock House	1921.09	1824.53	1559.8	567	856	1236.6	
3	Blast Furnace-I,Near PCM	1547	1877.74	1383.54	786	980	987	
4	Blast Furnace-I,Near GCP	1678.87	1987.55	1570.59	1123	1249	1002	
5	Blast Furnace-II Caste House	1869.29	1576.52	2024.69	1230	745	917.74	3000
6	Stock House (Screen Platform)	1673.72	1995.88	1507.57	1007	890	450.98	
7	Shuttle Conveying Platform	1664.24	1844.72	1756.8	1156	876	980	
8	Coke oven-I, Secondary crusher building	1867.04	1531.57	1798.22	987	876	1238	2000
9	Coke oven-I, Coke Cutting Building	1636.63	1170.15	1404.75	890	760	1100	
10	Coke Oven-I, Quenching tower	2184.46	1964.6	1957.28	1123	865	1024	
11	Coke Oven-II,Secondary Crusher BuildingArea	1851.04	2196.3	1799.8	1034	976	1245	
12	Coke Oven-II,Coke Cutting Building Area	1835.75	2026	1309.65	1130	970	1320	
13	Coke Oven-II,Quenching Tower Area	1754.05	2080.35	1510.67	789	654	987	
14	Coke Oven-II,Near BETP area	1260.79	1650.79	1276.11	769	1005	1290	2000
15	DRI 1 & 2 of day bin area	1822.62	1814.56	534.18	790	903	225.16	
16	PSB of DRI 1 & 2	2015.52	1878.94	1813	1234	1768	1152.7	
17	Char Discharge area DRI 1 & 2	1552.82	1840	1940.6	986	1077	1230	

18	Day Bin area of DRI 3 & 4	1845.05	2017.61	1731.04	1100	978	695.31	2000
19	PSB of DRI 3 & 4	2085.12	1903.37	1845.15	789	1289	921.32	
20	Char Discharge area DRI 3 & 4	2001.01	1360.82	1926.64	1134	786	670	
21	Day Bin area of DRI 5 & 6	1840.89	1998.62	2083.33	1345	870	994.72	
22	PSB of DRI 5 & 6	2040.54	1820.41	1568.82	765	906	783.44	
23	Char Discharge area DRI 5 & 6	2054.26	1958.01	1866.65	1123	1034	890	
24	Day Bin area of DRI 7 & 8	1820.04	1901.8	1017.62	1234	1008	553.36	
25	PSB of DRI 7 & 8	2023.45	2147.01	1767	1145	987	923.1	
26	Char Discharge area DRI 7 & 8	1790.8	1825	1689	1006	765	809	
27	Day Bin area of DRI 9 & 10	1850.29	1693.69	1934	1234	786	484.15	
28	PSB of DRI 9 & 10	1850.29	1886.71	1730	1234	1089	828.83	
29	Char Discharge area DRI 9 & 10	2050.29	1154.31	1678	869	986	786	
30	Daybin area of DRI 11 & 12	Shut down	1345	1470	1234	789	546.91	
31	PSB area of DRI 11 & 12	Shut down	1032	789	890	1008	858.9	
32	Char Discharge area DRI 11 & 12	Shut down	1123	890	876	1067	1278	
33	Lime Plant Transfer point	1288.55	2095.57	1863.24	765	890	934	
34	Lime Plant Kiln Area	2018.28	1655.74	15303.1	1189	1283	1449.1	
35	Lime Plant Delivery Building	2084.46	1645.12	1932.67	1109	987	1209	
36	Power Plant Ash Handling area(130 MW)	2050.19	1800.94	1920.14	1234	1345	1190	
37	Power Plant Boiler area (130MW)	1969.29	1515.76	1824.44	1020.6	765	1230	

38	Power Plant Ash Handling Area(100MW)	1867.04	1885.82	1301.43	994.75	876	765	
39	Power Plant Boiler Area (100 MW)	1613.73	1701.82	2056.59	327.09	768	908	
40	RMPP-I Truck Tippler Area	1635.65	1383.17	1859.51	1345	1234	904	
41	RMPP-I Ore Crushing area	1650.79	1569.75	2114.86	1254	1123	1007	
42	RMPP-I Ore Screening area	2054.36	1585.35	1880.2	1543	1123	1345	
43	RMPP-I Coal Crushing & Screening area	1288.55	1770.89	930.48	1234	1187	945	
44	RMPP-II Wagon Tippler area	2036.54	2050.76	1614.16	978	1342	876	
45	RMPP-II Stacking & Reclaiming area	1268.23	1642.2	751.63	876	1234	987	
46	Wagon Tippler 1&2 Area	1789	1654	1906.2	1345	867	749.11	
47	Wagon Tippler 3&4 Area	1546	1234	1865	1367	870	528.1	
48	Raw Material Conveying Area (Wagon Tippler)	2020.28	1906.25	1254.18	1135	876	980	
49	Sinter Plant Flux crushing area	1717	1913.08	1368.67	786	897	726	2000
50	Sinter Plant Proportional Building area	1810.54	1921.43	1450.74	1143	1234	552.84	
51	SMS-I EAF 1 & 2 area	1954.48	1753.55	1728.71	1290	1230	1437	3000
52	SMS-I FTP-1 Area	2488	527.64	441.94	798	654	730.04	
53	SMS-I FTP-2 Area	1734	297.66	940.84	765	765	970.32	
54	SMS-I EAF 3 & 4 area	2410	2324.14	2579.63	1123	876	907	
55	SMS-I FTP-3 Area	1575.76	1356.24	1084.01	786	908	818.56	
56	SMS-I FTP-4 Area	2909	878.65	1004.85	678	984	760.86	
57	SMS-II,EAF Area	2717.12	2647.92	2668.38	987	1235	1009.4	

58	SMS-II,Dedusting Area	1280.55	1058.8	2062.78	1178	1234	994.77	
59	SMS-II,LRF Area	1471.12	1044.32	1263.52	1034	897	878	
60	SMS-II,VD Area	1256.08	436.9	801	987	789	780	
61	Pellet Plant Additive grinding Area	2059.88	1740.64	1914.87	995.27	1234	1411.4	2000
62	Pellet plant dosing & Mixing area	2005.69	1840.5	1610.76	2068.2	1245	1190	
63	Pellet Plant Screening Building	1969.28	1840.54	1414.87	1867.6	1034	1234	
64	Pellet Plant ESP area	1636.63	1288.5	2003.45	605.75	870	765.07	

29	Boron (as B)	mg/l	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
30	Anionic Detergents (as MBAS)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
31	Mineral Oil	mg/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND

N.B-GW1-Thekoloji Tube well,GW2-Sripura Tube well,GW-3-Gumkarma Dugwell,GW4-Solid waste disposal site,GW-5-Derba village tube well,GW-7-Landupali Dugwell,GW-8-Tumbekela Borewell ,GW-6-Dhubenchhaper tube well

Annexure-VIII

Status of Charter on Corporate Responsibility for Environment Protection

S.N	Action Points For Integrated Iron & Steel Industry	Status at BPSL / Action Plan
1	Coke oven plants	
	a. To meet the parameters PLD (% leaking doors), PLL (% leaking lids), PLO (% leaking off take), of the notified standards under EPA within three years (by December 2005). Industry will submit time bound action plan and PERT chart along with Bank guarantee for the implementation of the same.	The existing coke oven-1 plant having capacity 0.45 MTPA is of non recovery type and it operates under negative pressure and as such the elimination of gas is completely eliminated. The coke oven-2 is a limited recovery plant commissioned is in operation since April.2019 which is meeting the parameters PLD(% of leaking doors),PLL(% of leaking lids) &PLO(% leaking off take) of the notified standards under EPA .
	b. To rebuild at least 40% of the coke oven batteries in next 10 years (December 2012)	Rebuilding is not applicable as both the coke oven -1&2 equipped with modern technology.
2	Steel Melting Shop	
	Fugitive emissions to reduce 30% within March 2004 and 100% in March 2008 (Including installation of secondary De-dusting facilities)	BPSL has installed 4 numbers of Fumes Treatment Plant in SMS-1 & 01 in SMS-2 to control Primary & secondary emission and are connected to separate stack of 60 meter height for better dispersion of pollutants.
3	Blast Furnace	
	Direct injection of reducing agent by June 2013 (C.D.I)	Pulverized Coal Injection (PCI) being used in existing Blast Furnace. Pulverized Coal Injection (PCI) implemented in the year,2008. The PCI injection project work is under progress in BF-2
4	Solid waste / hazardous waste management	
	Utilization of Steel Melting Shop (SMS) /	Slag Utilisation

	<p>Blast Furnace (BF) slag by:</p> <ul style="list-style-type: none"> • by 2004 – 70%, • by 2006 – 80% and • by 2008 – 100% 	<table border="1"> <thead> <tr> <th data-bbox="833 195 922 264">S.N</th> <th data-bbox="922 195 1036 264">Units</th> <th data-bbox="1036 195 1149 264">Solid waste</th> <th data-bbox="1149 195 1414 264">Utilization</th> </tr> </thead> <tbody> <tr> <td data-bbox="833 264 922 438">01</td> <td data-bbox="922 264 1036 438">BF</td> <td data-bbox="1036 264 1149 438">BF Slag</td> <td data-bbox="1149 264 1414 438">The entire slag generating from BF is granulated and sold to cement manufacturers.</td> </tr> <tr> <td data-bbox="833 438 922 863">02</td> <td data-bbox="922 438 1036 863">SMS</td> <td data-bbox="1036 438 1149 863">SMS slag</td> <td data-bbox="1149 438 1414 863">Slag is being crushed and the metallic content is recovered and recycled through Sinter Plant .The residue after recovery is used for internal road making and in leveling of low lined areas in the plant.</td> </tr> </tbody> </table>	S.N	Units	Solid waste	Utilization	01	BF	BF Slag	The entire slag generating from BF is granulated and sold to cement manufacturers.	02	SMS	SMS slag	Slag is being crushed and the metallic content is recovered and recycled through Sinter Plant .The residue after recovery is used for internal road making and in leveling of low lined areas in the plant.			
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5	Hazardous Waste Management																
	<p>Charge of Tar sludge & ETP sludge to Coke ovens by June'03</p> <p>Inventorisation of Hazardous waste as per Hazardous Waste(Managing & Handling) Rules, 1989 as amended in and implementation of the Rules by Dec'03(tar sludge, acid sludge, waste Lubricating oil and type fuel falls in the category of hazardous waste)</p>	<p>Odisha State Pollution Control Board has issued authorization for generation, handling, collection, storage, transportation and disposal of hazardous waste vide letter no. IND -IV-HW - 549/14774 dated 27.09.2021 and shall be in force for a period up to 31.03.2022 for following hazardous waste categories and implementation of the rule is being done.</p> <table border="1"> <thead> <tr> <th data-bbox="833 1346 898 1423">S. N</th> <th data-bbox="898 1346 1049 1423">Name of HW</th> <th data-bbox="1049 1346 1482 1423">Mode of Treatment & Disposal/Recycling/Reuse/etc.</th> </tr> </thead> <tbody> <tr> <td data-bbox="833 1423 898 1524">1.</td> <td data-bbox="898 1423 1049 1524">Used oil/ Spent Oil</td> <td data-bbox="1049 1423 1482 1524">Stored in MS drum over concrete floor under shed and sale to authorized recycler /reprocessor having valid authorization from SPCB,Odisha.</td> </tr> <tr> <td data-bbox="833 1524 898 1646">2.</td> <td data-bbox="898 1524 1049 1646">Wastes/Residues Containing Oil</td> <td data-bbox="1049 1524 1482 1646">Disposed at CHWTSDF at Sukinda jajpur of Odisha waste Mangement Project.</td> </tr> <tr> <td data-bbox="833 1646 898 1747">3.</td> <td data-bbox="898 1646 1049 1747">Oil and Grease Skimming Residue</td> <td data-bbox="1049 1646 1482 1747">Disposed at CHWTSDF at Sukinda jajpur of Odisha waste Mangement Project</td> </tr> <tr> <td data-bbox="833 1747 898 1862">4.</td> <td data-bbox="898 1747 1049 1862">Chemical Sludge from waste water treatment plant-</td> <td data-bbox="1049 1747 1482 1862">Disposed at CHWTSDF at Sukinda jajpur of Odisha waste Mangement Project</td> </tr> </tbody> </table>	S. N	Name of HW	Mode of Treatment & Disposal/Recycling/Reuse/etc.	1.	Used oil/ Spent Oil	Stored in MS drum over concrete floor under shed and sale to authorized recycler /reprocessor having valid authorization from SPCB,Odisha.	2.	Wastes/Residues Containing Oil	Disposed at CHWTSDF at Sukinda jajpur of Odisha waste Mangement Project.	3.	Oil and Grease Skimming Residue	Disposed at CHWTSDF at Sukinda jajpur of Odisha waste Mangement Project	4.	Chemical Sludge from waste water treatment plant-	Disposed at CHWTSDF at Sukinda jajpur of Odisha waste Mangement Project
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6		Water Conservation / Water Pollution																						
	a.	To reduce specific water consumption of 5 m ³ /t for long products and 8 m ³ /t for flat products by December 2005	BPSL is producing long & flat product & Complying with guideline. The specific water consumption for the year 2020-21 is 2.68 m ³ /t crude steel for long product and 0.9 m ³ /t for flat product.																					
	b.	To operate the CO&BPP effluent treatment plant efficiently to achieve the notified effluent discharge standards – by July 2003	BETP of 75 m ³ /hr have been installed at Coke Oven-2(Recovery Type) to treat the effluent generate from the plant.																					
7		Installation of continuous stack monitoring system & its calibration in major stacks and setting up of the online ambient air quality monitoring stations by June 2005.	<p>40 numbers of Continuous emissions monitoring System have been Installed all the major stacks of the operating units. Refers to the Annexure-I of compliance report</p> <p>For regular monitoring of Ambient Air Quality three numbers of of Continuous Ambient Air Quality Monitoring System installed as follows</p> <p>1-CAAQMS-1-Near Township</p> <p>2.CAAQMS-2-Near Railway gate</p>																					

			3.CAAQMS-3-Behind CRM
8		To operate the existing pollution control equipment efficiently and to keep proper record run hours, failure time and efficiency with immediate effect. Compliance report in this regard is submitted to CPCB / SPCB every three months.	We are in process of performance evaluation of all the pollution control system installed in different units by third party and the report will be submitted at CPCB/OSPCB
9		To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MOEF by December 2003.	This project is a green field project; it has commenced production in the year 2005 and is still under implementation. Life Cycle Assessment (LCA) will be done.
10		The industry will initiate the steps to adopt the following clean technologies / measures to improve the performance towards production, energy , land environment:	
	a.	Energy recovery to top blast furnace gas	Blast furnace gas is being utilized as a fuel in Sinter Plant, Steel Melting Shop, Lime plant , CSP, Wire Rod Mill and Pellet plant.
	b.	Use of tar free runner linings.	Castable runner linings are used for hot metal drain in Blast Furnace.
	c.	Cast house de-dusting (tap holes, runners, skimmer, ladle and charging points).	BPSL has already installed Fume Extraction System (de-dusting) for the Cast house for control of fugitive.
	d.	Suppression of fugitive emissions using nitrogen gas or any other inert gas	Not Applicable.
	e.	To study the possibility of slag and fly ash transportation back to the abandoned mines to fill up the cavities through empty railway wagons while they return back to the mines and its implementation.	The entire quantity of BF granulated slag is being sold to Cement plant.Fly ash utilized in different areas like filling of abandoned stone Quarry, Fly ash brick manufacturing, Filling of lowlying area.State Pollution Control Board has given permission to fill the abandoned stone quarry at Babuchakuli and salad , Rengali with fly ash and the filling work is in progress.

	f.	Processing of the waste containing flux & ferrous wastes through waste recycling plant.	<p>A modern state of art of technology of Sinter Plant (105m² capacities) has been installed for recycling of waste materials.</p> <p>Flux wastes, Mill scales, ferrous waste are being recycled for production of sinter, which is fed to Blast Furnace as raw material.</p>
	g.	To implement rain water harvesting	We are in process of study by third party for development of rain water harvesting structure within the plant.
	h.	Reduction of green house gases by :	
		I Reduction in power consumption	Reduction in power consumption target has been set.
		II Use of by product gases for power generation	The hot gas generated from Coke oven-1 is being utilized in the power generation passing through waste heat recovery boiler (WHRB) feeding to two nos. of turbo generator which generates 16 MW power. DRI off gases are also being used through WHRB for power generation.
		III Promotion of energy optimization technology, including energy audit.	Energy audit has been carried out by authorized third party.
	i.	To progressively set targets for resource conservation such as raw material, energy and water consumption to match international standards.	<p>BPSL is presently drawing about 67400 M3/day of water from Hirakud Reservoir for our existing operating facilities.</p> <p>BPSL has taken steps for resource conservation including recycle and reuse of treated water from Waste Water Treatment Plants in different application like dust suppression as quenching ,Fire fighting and horticulture to minimize drawl of raw water from Hirakud Reservoir.</p>
	j.	Up gradation in the monitoring analysis facilities for air and water pollution. Also to impart laboratory training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.	An Environmental Management Division is already operational to monitor and manage all environmental issues. A full fledge laboratory has been set up for monitoring and analysis of air and water pollution parameters. The manpower which is entrusted for environmental monitoring has been imparted training on regular intervals. Apart from that Third Party

			<p>monitoring carried out by NABL accredited laboratory.</p> <p>40 nos. of Continuous emission monitoring system has been installed all the major stacks of the different unit.</p> <p>03 nos. of Continuous Ambient air quality & 5 nos. of Continuous effluent quality monitoring system has been installed in the plant.</p> <p>02 nos. of IP Camera stack emission and fugitive emission has been installed.</p>
	k.	To improve house keeping	<p>To improve the house keeping within the plant area, dedicated team of workers and machinery engaged for regular cleaning of the spillages especially in the RMPP, De-dusting ESP and Coal Washery area. The materials are collected and sent for use in the process plant. This is being monitored regularly and the concerned departments have been made responsible to monitor the same.</p> <p>Apart from above, Three nos. of mechanized road sweepers are being engaged for continuous cleaning of concrete roads inside plant premises to control fugitive dust.</p>

Annexure-IX

Treated Effluent water Analysis Result (ETP) (April-2021 to September-2021)									
No	Parameters	Unit	General Standard	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
1	Colour & Odour	Hazen	5 & U/O	25 & Agreeable	25 & Agreeable	25 & Agreeable	25 & Agreeable	25 & Agreeable	25 & Agreeable
2	pH	-	6 to 9	7.17	7.17	7.21	7.2	7.27	7.3
3	Temperature	0C	Shall not exceed more than 5 ⁰ C above ambient water temperature	25.1	25.5	25.8	24	25.6	25
4	Total Residual Chlorine	mg/l	1	ND	ND	ND	ND	ND	ND
5	Total Suspended Solids as TSS	mg/l	100	24	22	31	31	30	31
6	BOD (3 days at 27°C)	mg/l	30	10	9	11	11	9	12
7	COD	mg/l	250	63	56	60	76	65	62
8	Oil & Grease	mg/l	10	2	2.4	2.2	2.3	2.5	2.2
9	Ammonical nitrogen (as N)	mg/l	50	7.4	3.1	2.6	2.7	3.5	3.4
10	Total Khjeldhal nitrogen (NH ₃)	mg/l	50	6.3	5.6	5.3	6.2	5.7	5.3
11	Nitrate nitrogen (as N)	mg/l	10	0.82	0.74	0.87	0.52	0.67	0.63
12	Free Ammonia NH ₃	mg/l	--	0.0201	0.0143	0.025	0.03	0.025	0.022
13	Dissolved Phosphates as P	mg/l	5	0.35	0.31	0.67	0.52	0.43	0.45
14	Fluoride (as F)	mg/l	2	0.37	0.32	0.34	0.48	0.53	0.62
15	Sulphide (as S)	mg/l	2	ND	ND	ND	ND	ND	ND
16	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	1	BDL	BDL	BDL	BDL	BDL	BDL
17	Zinc (as Zn)	mg/l	5	BDL	BDL	BDL	0.43	BDL	BDL
18	Iron (as Fe)	mg/l	3	0.43	0.38	0.32	0.33	0.36	0.4
19	Copper (as Cu)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
20	Total Chromium as Cr	mg/l	2	BDL	BDL	BDL	BDL	BDL	BDL
21	Manganese (as Mn)	mg/l	2	BDL	BDL	BDL	BDL	BDL	BDL
22	Nickel (as Ni)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
23	Arsenic (as As)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
24	Cyanide (as CN)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
25	Vanadium (as V)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
26	Lead (as Pb)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL
27	Hexavalent chromium (as Cr ⁶⁺)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL

28	Selenium (Se)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
29	Cadmium (as Cd)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
30	Mercury (as Hg)	mg/l	0.01	BDL	BDL	BDL	BDL	BDL	BDL
31	Bioassay Test	%	90% survival of fish after 96 hours in 100% effluent	94%	95%	93%	95%	94%	95%
32	Poly Aromatic Hydrocarbon as PAH	mg/l	--	ND	ND	ND	ND	ND	ND
33	Toxicity	%	--	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50

**Treated Waste Water Analysis Result (WWTP-I)
(April 2021 to September-2021)**

No	Parameters	Unit	General Standard	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
1	Colour & Odour	Hazen	5 & U/O	5 & Agreeable	5 & Agreeable	5 & Agreeable	5 & Agreeable	5 & Agreeable	5 & Agreeable
2	pH	-	6 to 9	6.86	7.54	6.67	7.4	7.2	7.3
3	Temperature	0C	Shall not exceed more than 5°C above ambient water temperature	26.6	26.3	26.5	25.8	26	27.2
4	Total Residual Chlorine	mg/l	1	ND	ND	ND	ND	ND	ND
5	Total Suspended Solids as TSS	mg/l	100	22	27	34	25	27	28
6	BOD (3 days at 27°C)	mg/l	30	8	10	90	7.3	7.8	8
7	COD	mg/l	250	36	44	50	34	38	32
8	Oil & Grease	mg/l	10	2.2	2.6	3.2	2.5	3	2.1
9	Ammonical nitrogen (as N)	mg/l	50	0.8	0.94	1.2	0.8	0.94	1.35
10	Total Khjeldhal nitrogen (NH ₃)	mg/l	50	1.6	1.74	2.1	2.3	1.2	1.8
11	Nitrate nitrogen (as N)	mg/l	10	0.45	0.54	0.52	0.56	0.73	0.82
12	Free Ammonia NH ₃	mg/l	--	0.0037	0.0054	0.0035	0.015	0.0131	0.0161
13	Dissolved Phosphates as P	mg/l	5	0.34	0.45	0.57	0.62	0.75	0.72
14	Fluoride (as F)	mg/l	2	0.73	0.62	1.93	0.58	0.62	0.67
15	Sulphide (as S)	mg/l	2	ND	ND	ND	ND	ND	ND
16	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	1	BDL	BDL	BDL	BDL	BDL	BDL
17	Zinc (as Zn)	mg/l	5	BDL	BDL	BDL	BDL	BDL	BDL
18	Iron (as Fe)	mg/l	3	0.18	0.19	0.21	0.23	0.2	0.23
19	Copper (as Cu)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
20	Total Chromium as Cr	mg/l	2	BDL	BDL	BDL	BDL	BDL	BDL

21	Manganese (as Mn)	mg/l	2	BDL	BDL	BDL	BDL	BDL	BDL
22	Nickel (as Ni)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
23	Arsenic (as As)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
24	Cyanide (as CN)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
25	Vanadium (as V)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
26	Lead (as Pb)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL
27	Hexavalent chromium (as Cr ⁶⁺)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL
28	Selenium (Se)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
29	Cadmium (as Cd)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
30	Mercury (as Hg)	mg/l	0.01	BDL	BDL	BDL	BDL	BDL	BDL
31	Bioassay Test	%	90% survival of fish after 96 hours in 100% effluent	92%	94%	91%	94%	92%	94%
32	Poly Aromatic Hydrocarbon as PAH	mg/l	--	ND	ND	ND	ND	ND	ND
33	Toxicity	%	--	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50

Treated Waste Water Analysis Result (WWTP-II)
(April-2021 to September-2021)

No	Parameters	Unit	General Standard	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
1	Colour & Odour	Hazen	5 & U/O	5 & Agreeable	5 & Agreeable	5 & Agreeable	5 & Agreeable	5 & Agreeable	5 & Agreeable
2	pH	-	6 to 9	7.24	7.35	6.93	7.3	6.92	7.4
3	Temperature	0C	Shall not exceed more than 5 ⁰ C above ambient water temperature	25.1	25.7	25.4	26	24.7	25.8
4	Total Residual Chlorine	mg/l	1	ND	ND	ND	ND	ND	ND
5	Total Suspended Solids as TSS	mg/l	100	19	18	26	20	22	21
6	BOD (3 days at 27°C)	mg/l	30	9	7	10	9	11	10
7	COD	mg/l	250	42	34	52	54	45	50
8	Oil & Grease	mg/l	10	1.6	1.4	2.4	1.8	2.1	2.5
9	Ammonical nitrogen (as N)	mg/l	50	4.2	3.6	4.6	3.2	4.7	4.3
10	Total Khjeldhal nitrogen (NH ₃)	mg/l	50	5.5	4.8	6.5	4.5	5.2	4.3
11	Nitrate nitrogen (as N)	mg/l	10	1.13	0.86	0.84	0.82	0.95	1.1
12	Free Ammonia NH ₃	mg/l	--	0.0258	0.0187	0.022	0.018	0.02	0.023
13	Dissolved Phosphates as P	mg/l	5	0.28	0.23	0.31	0.27	0.31	0.42

14	Fluoride (as F)	mg/l	2	0.14	0.12	0.11	0.17	0.16	0.18
15	Sulphide (as S)	mg/l	2	ND	ND	ND	ND	ND	ND
16	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	1	BDL	BDL	BDL	BDL	BDL	BDL
17	Zinc (as Zn)	mg/l	5	BDL	BDL	BDL	BDL	BDL	BDL
18	Iron (as Fe)	mg/l	3	0.14	0.16	0.43	0.16	0.24	0.27
19	Copper (as Cu)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
20	Total Chromium as Cr	mg/l	2	BDL	BDL	BDL	BDL	BDL	BDL
21	Manganese (as Mn)	mg/l	2	BDL	BDL	BDL	BDL	BDL	BDL
22	Nickel (as Ni)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
23	Arsenic (as As)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
24	Cyanide (as CN)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
25	Vanadium (as V)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
26	Lead (as Pb)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL
27	Hexavalent chromium (as Cr ⁶⁺)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL
28	Selenium (Se)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
29	Cadmium (as Cd)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
30	Mercury (as Hg)	mg/l	0.01	BDL	BDL	BDL	BDL	BDL	BDL
31	Bioassay Test	%	90% survival of fish after 96 hours in 100% effluent	94%	93%	95%	96%	95%	96%
32	Poly Aromatic Hydrocarbon as PAH	mg/l	--	ND	ND	ND	ND	ND	ND
33	Toxicity	%	--	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50

**Treated waste Water Analysis Result (WWTP-III)
(April-2021 to September-2021)**

No	Parameters	Unit	General Standard	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
1	Colour & Odour	Hazen	5 & U/O	5 & Agreeable	5 & Agreeable	5 & Agreeable	5 & Agreeable	5 & Agreeable	5 & Agreeable
2	pH	-	6 to 9	7.12	7.04	6.96	7.23	7.8	7.5
3	Temperature	0C	Shall not exceed more than 5 ⁰ C above ambient water temperature	25.3	25.6	25.7	26	24.8	26
4	Total Residual Chlorine	mg/l	1	ND	ND	ND	ND	ND	ND
5	Total Suspended Solids as TSS	mg/l	100	21	20	25	25	26	22
6	BOD (3 days at 27°C)	mg/l	30	7	9	8	8.7	9	10

7	COD	mg/l	250	24	40	28	45	50	48
8	Oil & Grease	mg/l	10	2	1.8	2.6	2.5	1.9	2.2
9	Ammonical nitrogen (as N)	mg/l	50	0.6	0.84	0.8	1.72	1.3	1.2
10	Total Khjeldhal nitrogen (NH ₃)	mg/l	50	1.7	1.92	1.4	1.8	1.9	1.5
11	Nitrate nitrogen (as N)	mg/l	10	0.75	0.88	0.67	0.95	0.67	0.92
12	Free Ammonia NH ₃	mg/l	--	0.0046	0.0073	0.0043	0.0047	0.0065	0.0058
13	Dissolved Phosphates as P	mg/l	5	0.35	0.48	0.62	0.45	0.52	0.6
14	Fluoride (as F)	mg/l	2	0.61	0.65	1.9	0.72	0.63	1
15	Sulphide (as S)	mg/l	2	ND	ND	ND	ND	BDL	ND
16	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	1	BDL	BDL	BDL	BDL	BDL	BDL
17	Zinc (as Zn)	mg/l	5	BDL	BDL	BDL	BDL	BDL	BDL
18	Iron (as Fe)	mg/l	3	0.11	0.15	0.31	0.32	0.26	0.21
19	Copper (as Cu)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
20	Total Chromium as Cr	mg/l	2	BDL	BDL	BDL	BDL	BDL	BDL
21	Manganese (as Mn)	mg/l	2	BDL	BDL	BDL	BDL	BDL	BDL
22	Nickel (as Ni)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
23	Arsenic (as As)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
24	Cyanide (as CN)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
25	Vanadium (as V)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
26	Lead (as Pb)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL
27	Hexavalent chromium (as Cr ⁶⁺)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL
28	Selenium (Se)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
29	Cadmium (as Cd)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
30	Mercury (as Hg)	mg/l	0.01	BDL	BDL	BDL	BDL	BDL	BDL
31	Bioassay Test	%	90% survival of fish after 96 hours in 100% effluent	93%	96%	94%	94%	96%	95%
32	Poly Aromatic Hydrocarbon as PAH	mg/l	--	ND	ND	ND	ND	ND	ND
33	Toxicity	%	--	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50

**Treated Effluent Water Analysis Result (BETP-)
(April-2021 to September-2021)**

No	Parameters	Unit	General Standard	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
1	Colour & Odour	Hazen	5 & U/O	10 & U/O	10 & U/O	10 & U/O	10 & U/O	10 & U/O	10 & U/O
2	pH	-	6 to 9	7.2	7.2	7.04	7.56	7.4	7.8

3	Temperature	0C	Shall not exceed more than 5 ⁰ C above ambient water temperature	25.6	26.2	26.3	26	27	25.6
4	Total Residual Chlorine	mg/l	1	ND	ND	ND	ND	ND	ND
5	Total Suspended Solids as TSS	mg/l	100	45	41	48	45	52	55
6	BOD (3 days at 27°C)	mg/l	30	20	17	16	20	18	16
7	COD	mg/l	250	176	152	184	183	166	175
8	Oil & Grease	mg/l	10	3.4	3	3.4	4.5	3.2	3.6
9	Ammonical nitrogen (as N)	mg/l	50	2.8	2.5	3.3	2.8	3	3.6
10	Total Khjeldhal nitrogen (NH ₃)	mg/l	50	4.1	3.7	4.2	4	4.1	3.8
11	Nitrate nitrogen (as N)	mg/l	10	1.13	1.2	1.1	0.69	0.75	0.82
12	Free Ammonia NH ₃	mg/l	--	0.0261	0.0244	0.025	0.039	0.046	0.048
13	Dissolved Phosphates as P	mg/l	5	0.54	0.47	0.53	0.62	0.73	0.65
14	Fluoride (as F)	mg/l	2	0.41	0.35	0.52	0.55	0.53	0.52
15	Sulphide (as S)	mg/l	2	ND	ND	ND	ND	ND	ND
16	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	1	BDL	BDL	BDL	BDL	BDL	BDL
17	Zinc (as Zn)	mg/l	5	0.34	0.29	0.38	0.15	0.18	0.19
18	Iron (as Fe)	mg/l	3	0.66	0.62	0.74	0.68	0.75	0.1
19	Copper (as Cu)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
20	Total Chromium as Cr	mg/l	2	0.15	0.1	0.19	0.19	0.18	0.15
21	Manganese (as Mn)	mg/l	2	0.072	0.063	0.077	0.073	0.064	0.052
22	Nickel (as Ni)	mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL
23	Arsenic (as As)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
24	Cyanide (as CN)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
25	Vanadium (as V)	mg/l	0.2	BDL	BDL	BDL	BDL	BDL	BDL
26	Lead (as Pb)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL
27	Hexavalent chromium (as Cr ⁶⁺)	mg/l	0.1	BDL	BDL	BDL	BDL	BDL	BDL
28	Selenium (Se)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
29	Cadmium (as Cd)	mg/l	0.05	BDL	BDL	BDL	BDL	BDL	BDL
30	Mercury (as Hg)	mg/l	0.01	BDL	BDL	BDL	BDL	BDL	BDL
31	Bioassay Test	%	90% survival of fish after 96 hours in 100% effluent	92%	94%	92%	94%	95%	96%
32	Poly Aromatic Hydrocarbon as PAH	mg/l	--	ND	ND	ND	ND	ND	ND
33	Toxicity	%	--	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50	48 hr LC50

Summary of Work zone Noise Monitoring (Apr- 21 to Sept-21)

Sl.No.	Name of the Unit	Location	Average Noise Level in dB(A)						Standard as per factory Act 1950
			Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	
1	DRI	DRI Area	83.1	82.1	79.6	83.6	83.1	79.40	85
2	130 MW Power Plant	Turbine-1	84.9	83.4	82.80	78.20	83.10	79.4	
		Turbine-2	83.9	82.6	85.20	84.90	82.30	79.5	
		Turbine-3	87.2	84.2	81.00	83.20	82.80	80.2	
		Boiler-1	85.0	84.9	82.10	84.80	81.30	83.0	
		Boiler-2	83.4	80.2	84.60	84.50	79.60	84.3	
		Boiler-3	80.6	84.6	83.10	86.20	81.60	80.5	
		Boiler-4	85.0	82.8	83.20	84.50	84.60	84.0	
		Boiler-5	84.8	84.6	87.90	82.30	Shut Down	81.2	
	Feed Pump Area	82.9	84.3	85.50	79.80	85.20	74.5		
3	100 MW Power Plant	Turbine Area (40 MW)	81.6	81.8	69.20	68.20	68.40	68.2	
		Turbine Area (60 MW)	83.8	82.6	72.80	73.20	72.40	Shut down	
		Feed Pump Area	78.2	85.6	70.00	71.20	71.30	72.3	
		Boiler Area	80.1	83.6	82.80	83.70	80.80	79.0	
4	Blast Furnace-I	Cast House	82.4	94.0	88.4	80.1	80.5	80.2	
		Blower House (Turbo)	80.6	80.1	81.2	82.3	86.4	86.7	
		Blower House(Motorized)	Shut down	Shut Down	Shut Down	Shut Down	Shut Down	Shut down	
		Gas Cleaning Plant	76.5	82.1	88.2	78.2	72.3	84.7	
		Stock House	73.2	87.8	72.0	69.4	67.9	72.9	
5	Blast Furnace-II	Cast House	79.20	78.60	82.30	72.00	65.30	66.8	
		Blower House Turbo (Blower-2)	84.00	79.60	81.40	85.90	80.50	84.9	

		Blower House Motorized (Blower-3)	Shut Down	Shut Down	Shut Down	Shut Down	Shut Down	Shut down
		Gas Cleaning Plant	84.10	82.70	84.20	72.50	71.60	66.7
		Stock House	75.00	78.50	79.60	78.40	77.20	65.8
6	Sinter Plant	Blower House	83.60	89.80	81.40	78.20	76.10	71.1
		Proportional Building	75.10	78.90	77.80	68.20	70.90	59.9
7	Coke Oven-1	Battery Area	68.60	70.20	66.80	65.60	59.20	71.8
		Coke Cutting & Screening Building	70.10	74.00	64.80	60.20	59.80	75.1
8	Coke Oven-2	Battery Area	57.50	60.50	68.40	67.20	76.50	57.1
		By-Product (Exhauster Area)	75.60	66.40	69.40	70.20	80.20	68.2
9	RMPP - I	Truck Tippling	79.10	79.20	63.80	62.4	62.60	58.2
		Stacking	75.80	74.20	68.90	71.4	71.10	53.5
		Coal Crushing Screening	84.80	72.80	74.50	76.90	78.90	70.7
		Ore Crushing & Screening	82.80	70.60	70.60	71.80	70.70	72.0
10	RMPP - II	Stacking & Reclaiming -3	80.10	79.80	64.80	65.20	49.20	69.7
		Stacking & Reclaiming -4	76.10	75.20	64.50	67.30	49.40	69.1
		Stacking & Reclaiming -5	73.20	63.80	62.80	60.50	50.60	64.5
11	RMPP-III	Infron of Office	66.30	56.80	52.40	52.60	51.30	66.0
		Coal reclaiming area	74.30	69.60	64.50	60.20	60.50	66.4
		Belt press crushing area	66.10	62.80	62.00	61.40	61.90	57.6
12	Coal Washery - I	Infront of office	73.20	77.20	62.80	63.20	63.70	61.4
		Near Silo	72.40	72.30	64.70	69.80	67.80	58.2
13	Coal Washery - II	Infront of office	76.20	74.70	63.20	62.60	62.90	62.6
		Near Silo	74.20	76.40	68.40	67.20	69.30	58.6
14	Lime Plant	Blower House	81.20	89.20	83.20	84.60	85.00	80.2
		Kiln Area	80.20	83.10	76.90	77.00	78.10	75.1
		Lime Sizing Area	82.60	82.70	65.60	65.40	66.50	58.1

15	Pellete Plant	Mill Area (Additive Mixing)	75.60	74.80	66.40	78.90	65.7	84.5
		Balling Disc Area	78.90	72.30	79.80	83.20	76.70	84.5
		Indurating machine Area	81.30	74.60	75.60	74.20	64.10	81.2
		Screening Area	67.90	62.80	67.80	67.40	66.40	68.3
		Updraught drying fan Area	83.80	74.50	69.20	68.20	69.40	74.2
		Wind Box Recuperation fan Area	84.60	74.20	68.40	70.40	68.20	79.0
		Cooling Air fan Area	82.90	72.80	75.80	73.80	75.70	79.7
		Dedusting ID fan Area	73.80	73.40	72.00	71.90	71.90	72.8
16	Oxygen Plant	Air Filtration Atea	85.60	82.40	80.40	81.30	84.10	85.2
		Air Compressor Area	82.70	83.60	88.20	82.60	84.50	83.8
		Cooling Water System Area	83.80	81.40	80.80	81.80	82.50	87.7
		Air Purification Area	75.60	78.40	75.00	73.20	75.90	71.2
		Air Separation Area	83.60	83.20	84.20	84.80	86.20	79.3
		Distribution Area	72.60	73.80	73.20	73.80	74.80	69.6
16	SMS - I	EAF - 1 Area	84.50	81.20	84.20	84.20	86.10	75.3
		EAF-2 Area	86.00	80.40	73.80	75.00	74.80	73.5
		EAF-3 Area	85.20	88.30	74.60	77.00	76.50	72.6
		EAF-4 Area	91.20	89.60	75.00	77.30	76.90	75.7
		LAF 1& 2 Area	85.10	78.50	79.20	78.00	79.30	64.4
		LAF 3 & 4 Area	85.80	80.20	66.80	67.80	65.90	64.7
		Near Office	69.60	80.10	68.90	68.20	68.60	60.6
17	SMS - II	EAF Area	87.20	88.90	88.90	79.20	71.90	70.2
		LRF Area	86.80	80.20	80.20	78.20	75.50	69.3
		VD Area	83.50	77.30	77.30	72.80	68.40	59.5
		Caster Area	85.80	86.40	86.40	75.20	77.50	68.6
		Near Office	78.40	79.90	78.90	72.00	67.40	60.6
		Near Laboratory	77.60	77.20	77.20	73.80	66.30	62.9

18	Air Compressor Station	Pump House	88.20	87.60	84.30	82.80	80.80	84.50
19	CSP	Mill Strand	84.6	80.20	74.0	76.8	76.1	73.4
		Down Coiler	84.6	79.50	77.2	75.4	73.4	74.7
20	CRM	HR Skin Pass	77.9	78.7	76.9	76.80	76	75.90
		Compressor House	84.3	86.80	85.20	84.70	82.30	85.70
		Mill No-2	83.9	84.80	85.20	Shut down	67.80	75.70
		Near Corrugation Machine	85.3	79.60	Shut down	Shut down	73.40	65.90
		Near Chromating unit	85.4	79.80	Shut down	Shut down	78.00	71.50
21	WRM	Near Combination Air fan	85.80	80.20	76.80	78.90	75.50	74.80

Annexure-X(B)

Summary of Ambient Noise Monitoring (Apr-21 to Sept.-21)								
	Monitoring Location							
	North East Side Boundary Near Township		North West Side Boundary Near Main Gate		South West Side Boundary Near ETP		South East Side Boundary Near Railway Gate	
Month/Standard	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	75 dB (A) Leq	70 dB (A) Leq	75 dB (A) Leq	70 dB (A) Leq	75 dB (A) Leq	70 dB (A) Leq	75 dB (A) Leq	70 dB (A) Leq
Apr-21	69.4	68.6	70.6	70.2	73.4	71.2	72.6	69.4
May-21	70.2	69.3	69.2	68.4	72.6	73.4	75.3	74.6
Jun-21	70.3	67.2	68.4	72.3	73.6	72.1	76.2	77.0
Jul-21	67.2	65.0	68.4	69.0	71.2	70.2	68.9	69.8
Aug-21	69.2	64.8	62.8	63.0	72.6	67.8	62.8	63.5
Sep-21	65.0	63.0	65.6	62.7	68.9	66.3	67.8	62.1



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.001

JOE No : KE21-002313

ULR No : TC704721100003256P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : EAF SLAG (SMS)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.22	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.11	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.001

JOE No KE21-002313

ULR No : TC704721100003256P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.001

JOE No : KE21-002313

ULR No : TC704721100003256P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.002

JOE No : KE21-002313

ULR No : TC704721100003257P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : LRF SLUG (SMS)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.002

JOE No KE21-002313

ULR No : TC704721100003257P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.002

JOE No : KE21-002313

ULR No : TC704721100003257P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.003

JOE No : KE21-002313

ULR No : TC704721100003258P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE
 Client Name : BHUSHAN POWER AND STEEL LIMITED
 Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
 Postal Code : 768232
 State : Odisha
 Country : INDIA
 Sample Type : WASTE SAMPLE
 Received : 06/11/2021
 Sample Qty. Recd. : 1kg approx
 Sampling Date : 02/11/2021
 Sampling Location : BAG FILTER DUST (SMS)
 Sampling Method : SO IN MUL TE 176
 Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A & 8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.39	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	0.78	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.06	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.07	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.003

JOE No : KE21-002313

ULR No : TC704721100003258P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.003

JOE No : KE21-002313

ULR No : TC704721100003258P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.004

JOE No : KE21-002313

ULR No : TC704721100003259P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : MILLSCALE (CSP)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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SGS India Pvt. Ltd.

SGS India Pvt Ltd., CS Plot -512(p), Mouza, Hanspukuria, Diamond Harbour Rd. PO-Joka, South 24 Parganas, Kolkata - 700104. Phone: +916292153834

Regd & Corp. Off : SGS House, 4B, A.S. Marg, Vikhroli (West), Mumbai-400083. Tel : (022) 25798421 to 28 www.sgs.com

Member of the SGS Group (SGS SA)



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.004

JOE No : KE21-002313

ULR No : TC704721100003259P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Report No : KE21-002313.004

JOE No : KE21-002313

ULR No : TC704721100003259P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

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****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.005

JOE No : KE21-002313

ULR No : TC704721100003260P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : SLUDGE FROM MILL (CSP)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.005

JOE No : KE21-002313

ULR No : TC704721100003260P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.005

JOE No : KE21-002313

ULR No : TC704721100003260P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



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SATYA CHARAN MANNA

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.006

JOE No : KE21-002313

ULR No : TC704721100003261P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : MILL SCALE (WRM)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	0.35	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.13	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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Report No : KE21-002313.006

JOE No : KE21-002313

ULR No : TC704721100003261P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

Page 2 of 3

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.006

JOE No : KE21-002313

ULR No : TC704721100003261P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.007

JOE No : KE21-002313

ULR No : TC704721100003262P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : SLUDGE FROM MILL (WRM)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.06	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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SGS India Pvt. Ltd.

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Regd & Corp. Off : SGS House, 4B, A.S. Marg, Vikhroli (West), Mumbai-400083. Tel : (022) 25798421 to 28 www.sgs.com

Member of the SGS Group (SGS SA)



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.007

JOE No KE21-002313

ULR No : TC704721100003262P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.007

JOE No : KE21-002313

ULR No : TC704721100003262P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.008

JOE No : KE21-002313

ULR No : TC704721100003263P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE
Client Name : BHUSHAN POWER AND STEEL LIMITED
Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
Postal Code : 768232
State : Odisha
Country : INDIA
Sample Type : WASTE SAMPLE
Received : 06/11/2021
Sample Qty. Recd. : 1kg approx
Sampling Date : 02/11/2021
Sampling Location : BAG FILTER DUST (LIME PLANT)
Sampling Method : SO IN MUL TE 176
Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.06	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.008

JOE No KE21-002313

ULR No : TC704721100003263P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.008

JOE No : KE21-002313

ULR No : TC704721100003263P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

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TC-7047

Print Date : 24/11/2021

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Report No : KE21-002313.009

JOE No : KE21-002313

ULR No : TC704721100003264P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : LIME DUST (LIME PLANT)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	0.15	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.07	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

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Report No : KE21-002313.009

JOE No : KE21-002313

ULR No : TC704721100003264P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

Page 2 of 3

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.009

JOE No : KE21-002313

ULR No : TC704721100003264P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.010

JOE No : KE21-002313

ULR No : TC704721100003265P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : ESP DUST (SINTER PLANT)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A & 8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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SGS India Pvt. Ltd.

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Member of the SGS Group (SGS SA)



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.010

JOE No KE21-002313

ULR No : TC704721100003265P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.010

JOE No : KE21-002313

ULR No : TC704721100003265P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.011

JOE No : KE21-002313

ULR No : TC704721100003266P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : BETP SLUDGE (COKE OVEN 2)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.06	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.011

JOE No : KE21-002313

ULR No : TC704721100003266P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.011

JOE No : KE21-002313

ULR No : TC704721100003266P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.012

JOE No : KE21-002313

ULR No : TC704721100003267P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE
 Client Name : BHUSHAN POWER AND STEEL LIMITED
 Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
 Postal Code : 768232
 State : Odisha
 Country : INDIA
 Sample Type : WASTE SAMPLE
 Received : 06/11/2021
 Sample Qty. Recd. : 1kg approx
 Sampling Date : 02/11/2021
 Sampling Location : DECANTER TANK TAR SLUDGE (COKE
 OVEN 2)
 Sampling Method : SO IN MUL TE 176
 Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	0.08	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.06	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.012

JOE No KE21-002313

ULR No : TC704721100003267P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

Page 2 of 3

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.012

JOE No : KE21-002313

ULR No : TC704721100003267P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.013

JOE No : KE21-002313

ULR No : TC704721100003268P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : TRALLING SLUDGE (PELLET AND BENEFICIATION PLANT)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

Page 1 of 3

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.013

JOE No KE21-002313

ULR No : TC704721100003268P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.013

JOE No : KE21-002313

ULR No : TC704721100003268P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.014

JOE No : KE21-002313

ULR No : TC704721100003269P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE
 Client Name : BHUSHAN POWER AND STEEL LIMITED
 Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
 Postal Code : 768232
 State : Odisha
 Country : INDIA
 Sample Type : WASTE SAMPLE
 Received : 06/11/2021
 Sample Qty. Recd. : 1kg approx
 Sampling Date : 02/11/2021
 Sampling Location : ESP DUST (PELLET AND BENEFICIATION PLANT)
 Sampling Method : SO IN MUL TE 176
 Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.26	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	0.29	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.21	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.014

JOE No KE21-002313

ULR No : TC704721100003269P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.014

JOE No : KE21-002313

ULR No : TC704721100003269P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.015

JOE No : KE21-002313

ULR No : TC704721100003270P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : EP SLUDGE (CRM)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	0.06	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

Page 1 of 3

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SGS India Pvt. Ltd.

SGS India Pvt Ltd., CS Plot -512(p), Mouza, Hanspukuria, Diamond Harbour Rd. PO-Joka, South 24 Parganas, Kolkata - 700104. Phone: +916292153834

Regd & Corp. Off : SGS House, 4B, A.S. Marg, Vikhroli (West), Mumbai-400083. Tel : (022) 25798421 to 28 www.sgs.com

Member of the SGS Group (SGS SA)



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.015

JOE No KE21-002313

ULR No : TC704721100003270P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

Page 2 of 3

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.015

JOE No : KE21-002313

ULR No : TC704721100003270P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.016

JOE No : KE21-002313

ULR No : TC704721100003271P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 02/11/2021

Sampling Location : GLASS WOOL (COMMON)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	4.58	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.016

JOE No KE21-002313

ULR No : TC704721100003271P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.016

JOE No : KE21-002313

ULR No : TC704721100003271P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.017

JOE No : KE21-002313

ULR No : TC704721100003272P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1KG APPROX

Sampling Date : 02/11/2021

Sampling Location : WASTE GREASE (COMMON)

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.017

JOE No KE21-002313

ULR No : TC704721100003272P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbochloroethene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.017

JOE No : KE21-002313

ULR No : TC704721100003272P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.018

JOE No : KE21-002313

ULR No : TC704721100003273P

Report Control No : KER0000180147

Sample Described by Customer as : WASTE SAMPLE
Client Name : BHUSHAN POWER AND STEEL LIMITED
Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
Postal Code : 768232
State : Odisha
Country : INDIA
Sample Type : WASTE SAMPLE
Received : 06/11/2021
Sample Qty. Recd. : 1KG APPROX
Sampling Date : 02/11/2021
Sampling Location : SPENT IRON EXCHANGE RESIN (COMMON)
Sampling Method : SO IN MUL TE 176
Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.13	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.57	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.09	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.018

JOE No KE21-002313

ULR No : TC704721100003273P

Report Control No : KER0000180147

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

Page 2 of 3

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002313.018

JOE No : KE21-002313

ULR No : TC704721100003273P

Report Control No : KER0000180147

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.001

JOE No : KE21-002312

ULR No : TC704721100003240P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED
 Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
 Postal Code : 768232
 State : Odisha
 Country : INDIA

Sample Type : WASTE SAMPLE
 Received : 06/11/2021
 Sample Qty. Recd. : 1kg approx
 Sampling Date : 01/11/2021
 Sampling Location : FLY ASH (130X3) UNIT 1 BOILER 2
 Sampling Method : SO IN MUL TE 176
 Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.38	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.13	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.10	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.001

JOE No : KE21-002312

ULR No : TC704721100003240P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.001

JOE No : KE21-002312

ULR No : TC704721100003240P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.002

JOE No : KE21-002312
ULR No : TC704721100003241P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE
 Client Name : BHUSHAN POWER AND STEEL LIMITED
 Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
 Postal Code : 768232
 State : Odisha
 Country : INDIA
 Sample Type : WASTE SAMPLE
 Received : 06/11/2021
 Sample Qty. Recd. : 1kg approx
 Sampling Date : 01/11/2021
 Sampling Location : BOTTOM ASH (130X3) UNIT 2 BOILER 2
 Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A8-Selenium	USEPA 1311 & 200.7	0.06	mg/L	-	5.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	0.5
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.002

JOE No KE21-002312

ULR No : TC704721100003241P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbone tetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA 1311+ 3510C + 8041A & 8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.002

JOE No : KE21-002312

ULR No : TC704721100003241P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.003

JOE No : KE21-002312

ULR No : TC704721100003242P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 01/11/2021

Sampling Location : WHRB DUST DRI 9

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	0.43	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.06	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

Page 1 of 3

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.003

JOE No : KE21-002312

ULR No : TC704721100003242P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Report No : KE21-002312.003

JOE No : KE21-002312

ULR No : TC704721100003242P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.004

JOE No : KE21-002312

ULR No : TC704721100003243P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 01/11/2021

Sampling Location : CHAR ASH DRI 9 & 10

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A & 8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.06	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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SGS India Pvt. Ltd.

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.004

JOE No : KE21-002312

ULR No : TC704721100003243P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.004

JOE No : KE21-002312

ULR No : TC704721100003243P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.005

JOE No : KE21-002312

ULR No : TC704721100003244P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 01/11/2021

Sampling Location : KILN ACCRETION DRI 10

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A & 8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.81	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.005

JOE No KE21-002312

ULR No : TC704721100003244P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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JOE No : KE21-002312

ULR No : TC704721100003244P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
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A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



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****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.006

JOE No : KE21-002312

ULR No : TC704721100003245P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE
Client Name : BHUSHAN POWER AND STEEL LIMITED
Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
Postal Code : 768232
State : Odisha
Country : INDIA
Sample Type : WASTE SAMPLE
Received : 06/11/2021
Sample Qty. Recd. : 1kg approx
Sampling Date : 01/11/2021
Sampling Location : GRANULATED SLAG, BLAST FURNACE
Sampling Method : SO IN MUL TE 176
Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.34	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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Report No : KE21-002312.006

JOE No KE21-002312

ULR No : TC704721100003245P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.006

JOE No : KE21-002312

ULR No : TC704721100003245P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.007

JOE No : KE21-002312

ULR No : TC704721100003246P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 01/11/2021

Sampling Location : DUST CATCHER BLAST FURNACE

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.18	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	1.34	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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Member of the SGS Group (SGS SA)



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.007

JOE No KE21-002312

ULR No : TC704721100003246P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Report No : KE21-002312.007

JOE No : KE21-002312

ULR No : TC704721100003246P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.008

JOE No : KE21-002312

ULR No : TC704721100003247P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 01/11/2021

Sampling Location : DUST FROM GCP PLANT BF 1

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.54	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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JOE No KE21-002312

ULR No : TC704721100003247P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.008

JOE No : KE21-002312

ULR No : TC704721100003247P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.009

JOE No : KE21-002312

ULR No : TC704721100003248P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE
 Client Name : BHUSHAN POWER AND STEEL LIMITED
 Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
 Postal Code : 768232
 State : Odisha
 Country : INDIA
 Sample Type : WASTE SAMPLE
 Received : 06/11/2021
 Sample Qty. Recd. : 1kg approx
 Sampling Date : 01/11/2021
 Sampling Location : GCP SLUDGE BF-2
 Sampling Method : SO IN MUL TE 176
 Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.06	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	2.81	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.009

JOE No : KE21-002312

ULR No : TC704721100003248P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.009

JOE No : KE21-002312

ULR No : TC704721100003248P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.010

JOE No : KE21-002312

ULR No : TC704721100003249P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE
Client Name : BHUSHAN POWER AND STEEL LIMITED
Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
Postal Code : 768232
State : Odisha
Country : INDIA
Sample Type : WASTE SAMPLE
Received : 06/11/2021
Sample Qty. Recd. : 1kg approx
Sampling Date : 01/11/2021
Sampling Location : COLOUR COATING LINE WASTE CRM
Sampling Method : SO IN MUL TE 176
Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	0.36	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.23	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.21	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.010

JOE No KE21-002312

ULR No : TC704721100003249P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.010

JOE No : KE21-002312

ULR No : TC704721100003249P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.011

JOE No : KE21-002312

ULR No : TC704721100003250P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE
 Client Name : BHUSHAN POWER AND STEEL LIMITED
 Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
 Postal Code : 768232
 State : Odisha
 Country : INDIA
 Sample Type : WASTE SAMPLE
 Received : 06/11/2021
 Sample Qty. Recd. : 1kg approx
 Sampling Date : 01/11/2021
 Sampling Location : ALKALI RESIDUE CRM
 Sampling Method : SO IN MUL TE 176
 Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	0.81	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.57	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.07	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.011

JOE No KE21-002312

ULR No : TC704721100003250P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbochloroethene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

Page 2 of 3

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.011

JOE No : KE21-002312

ULR No : TC704721100003250P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.013

JOE No : KE21-002312

ULR No : TC704721100003252P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE

Client Name : BHUSHAN POWER AND STEEL LIMITED

Client Address : Vill- Thekoloji Post- Lapanga

: Tehshil- Rengali

Postal Code : 768232

State : Odisha

Country : INDIA

Sample Type : WASTE SAMPLE

Received : 06/11/2021

Sample Qty. Recd. : 1kg approx

Sampling Date : 01/11/2021

Sampling Location : ZINC DROSS CRM

Sampling Method : SO IN MUL TE 176

Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	0.08	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	0.06	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.07	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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SGS India Pvt. Ltd.

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Regd & Corp. Off : SGS House, 4B, A.S. Marg, Vikhroli (West), Mumbai-400083. Tel : (022) 25798421 to 28 www.sgs.com

Member of the SGS Group (SGS SA)



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.013

JOE No KE21-002312

ULR No : TC704721100003252P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.013

JOE No : KE21-002312

ULR No : TC704721100003252P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.014

JOE No : KE21-002312

ULR No : TC704721100003253P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE
Client Name : BHUSHAN POWER AND STEEL LIMITED
Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
Postal Code : 768232
State : Odisha
Country : INDIA
Sample Type : WASTE SAMPLE
Received : 06/11/2021
Sample Qty. Recd. : 1kg approx
Sampling Date : 01/11/2021
Sampling Location : OIL & GREASE SKIMMING RESIDUE CRM
Sampling Method : SO IN MUL TE 176
Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A & 8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	0.08	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.33	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	0.06	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.014

JOE No KE21-002312

ULR No : TC704721100003253P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.014

JOE No : KE21-002312

ULR No : TC704721100003253P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.016

JOE No : KE21-002312

ULR No : TC704721100003255P

Report Control No : KER0000180143

Sample Described by Customer as : WASTE SAMPLE
 Client Name : BHUSHAN POWER AND STEEL LIMITED
 Client Address : Vill- Thekoloji Post- Lapanga
 : Tehshil- Rengali
 Postal Code : 768232
 State : Odisha
 Country : INDIA
 Sample Type : WASTE SAMPLE
 Received : 06/11/2021
 Sample Qty. Recd. : 1kg approx
 Sampling Date : 01/11/2021
 Sampling Location : MAGNETIC SEPERATOR SLUDGE CRM
 Sampling Method : SO IN MUL TE 176
 Test Start/End Date : 06/11/2021 - 19/11/2021

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
A19-2,4-Dinitrotoluene	USEPA1311+ 3510C + 8041A &8270D	<0.01	mg/L	-	0.13
A32-Methylethylketone	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	200.0
A36-Pyridine	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	5.0
A34-Nitrobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	2.0
NABL Group :	Pollution & Environment	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)			
DISCIPLINE:	CHEMICAL				
A2-Barium	USEPA 1311 & 200.7	<0.05	mg/L	-	100
A3-Cadmium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A4-Chromium and/or Chromium(III) compounds	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A5-Lead	USEPA 1311 & 200.7	0.07	mg/L	-	5.0
A1-Arsenic	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A7-Mercury	USEPA 1311 & 200.7	<0.05	mg/L	-	0.20
A8-Selenium	USEPA 1311 & 200.7	<0.05	mg/L	-	1.0
A9-Silver	USEPA 1311 & 200.7	<0.05	mg/L	-	5.0
A15-1,2-Dichloroethane	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5

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TC-7047

Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.016

JOE No : KE21-002312

ULR No : TC704721100003255P

Report Control No : KER0000180143

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
A18-2,4,6-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	2.0
A20-Benzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A25-Chlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	100
A24-Carbondtetrachloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.50
A47-Chlordane	USEPA 1311+5030C & 8081A	<0.001	mg/L	-	0.03
A26-Chloroform	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	6.0
A14-1,1-Dichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.70
A16-1,4-Dichlorobenzene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	7.5
A27-Cresol (ortho + meta + para)	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	200
A30-Hexachlorobutadiene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A29-Hexachlorobenzene	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	.13
A57-Methoxychlor	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	10
A37-Tetrachloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.7
A38-Trichloroethylene	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.5
A51-Endrin	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.02
A53-Heptachlor & its Epoxide	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.008
A55-Lindane	USEPA 1311+3510C & 8081A	<0.001	mg/L	-	0.4
A35-Pentachlorophenol	USEPA 1311+5030C & 8260B	<0.05	mg/L	-	100
A17-2,4,5-Trichlorophenol	USEPA1311+ 3510C + 8041A &8270D	<0.05	mg/L	-	400
A39-Vinylchloride	USEPA 1311+5030C & 8260B	<0.01	mg/L	-	0.2
A41-2,4-Dichlorophenoxyacetic acid	USEPA 1311+5030C & 8260B	<0.0100	mg/L	-	10.0

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Print Date : 24/11/2021

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE21-002312.016

JOE No : KE21-002312

ULR No : TC704721100003255P

Report Control No : KER0000180143

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit Schedule II	
				Min	Max
2,4,5-TP (Silvex)	Qualitative	Absent	mg/L	-	1.0
A31-Hexachloroethane	Qualitative	Absent	mg/L	-	3.0
A61-Toxaphene	Qualitative	Absent	mg/L	-	0.50

Remark :

Per pro SGS India Private Ltd



SUMALLYA BHATTACHARJEE

Authorized Signatory

Per pro SGS India Private Ltd



SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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