

Half Yearly Compliance Report**2020****01 Dec(01 Apr - 30 Sep)****Acknowledgement**

| | | | |
|--|---|-------------------------------|------------------------------|
| Proposal Name | Modernization-cum-expansion of Bhilai Steel Plant (4.00 MTPA to 7.00 MTPA) alongwith Captive Power Plant (72 MW) at Bhilai, Chhattisgarh by MIs Steel Authority of India Ltd. | | |
| Name of Entity / Corporate Office | Bhilai Steel Plant SAIL | | |
| Village(s) | DURG | | |
| District | DURG | | |
| Proposal No. | IA/CG/IND/67974/2017 | Category | Industrial Projects - 1 |
| Plot / Survey / Khasra No. | | Sub-District | Durg |
| State | CHHATTISGARH | Entity's PAN | *****7062F |
| MoEF File No. | F. No. J-11011/28/2007-IA II (I) | Entity name as per PAN | STEEL AUTHORITY OF INDIA LTD |

Compliance Reporting Details

| | |
|-------------------------|-------------------------|
| Reporting Year | 2020 |
| Remarks (if any) | April 2020-Sep,2020 |
| Reporting Period | 01 Dec(01 Apr - 30 Sep) |

Details of Production and Project Area

Name of Entity / Corporate Office Bhilai Steel Plant SAIL

| | Project Area as per EC Granted | Actual Project Area in Possession |
|--------------|---------------------------------------|--|
| Private | 3284.75 | 6286.75 |
| Revenue Land | 0 | 0 |
| Forest | 0 | 0 |
| Others | 0 | 0 |
| Total | 3284.75 | 6286.75 |

Production Capacity

| Sr. no | Product Name | units | Valid Upto | Capacity | Production last year | Capacity as per CTO |
|--------|---|-------------------------------|------------|-----------------------|----------------------|-----------------------|
| 1 | Coke from Coke Oven Battery, | Million Tons per Annum (MTPA) | 31/03/2018 | 3.94 | 2.85 | 3.94 |
| 2 | Hot Metal from Blast Furnace | Million Tons per Annum (MTPA) | 31/03/2018 | 7.5 | 4.28 | 7.5 |
| 3 | Bars and Rods from BAR and ROD Mills | Million Tons per Annum (MTPA) | 31/03/2018 | 0.9 | 0.43 | 0.9 |
| 4 | Crude Steel From Steel Melting Shops | Million Tons per Annum (MTPA) | 31/03/2018 | 7.0 | 4.07 | 7.0 |
| 5 | Sinters from Sinter Plant | Million Tons per Annum (MTPA) | 31/03/2018 | 9.772 | 6.50 | 9.772 |
| 6 | Power and Steam from PBS | MW | 31/03/2018 | 94 | 3.84 | 94 |
| 7 | Plates from Plate Mill | Million Tons per Annum (MTPA) | 31/03/2018 | 1.65 | 1.02 | 1.65 |
| 8 | Merchant Products from Merchant Mill | Million Tons per Annum (MTPA) | 31/03/2018 | 0.85 | 0.60 | 0.85 |
| 9 | Wire Rods Products from Wire Rod Mill | Million Tons per Annum (MTPA) | 31/03/2018 | 0.70 | 0.43 | 0.70 |
| 10 | Refractories from Refractory Material Plant | Million Tons per Annum (MTPA) | 31/03/2018 | 1.58 | 0.19 | 1.58 |
| 11 | Oxygen from Oxygen Plant | Tons per Day (TPD) | 10/03/2018 | 550 of 3 and 700 of 1 | 1571 | 550 of 3 and 700 of 1 |
| 12 | Rail and Structures from RSM | Million Tons per Annum (MTPA) | 10/03/2018 | 2.20 | 0.78 | 2.20 |

Conditions

Specific Conditions

| Sr.No. | Condition Type | Condition Details |
|--|---|--|
| 1 | AIR QUALITY MONITORING AND PRESERVATION | Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan should be submitted. On-line stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm ³ . Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal, CPCB and CECB once in six months. |
| <p>PPs Submission: Complied</p> <p>All projects coming under expansion cum modernization will have state-of-the-art pollution control technologies (for reduction of RSPM and Stack emission) and will be installed along with the modernization packages. This will be adhered to the norms stipulated by State Pollution Control Board i.e. Stack Emission below 50 mg/Nm³. On-line stack monitoring is being incorporated in all the expansion units. In existing plant 15 Nos. online stack monitoring system installed and 13 Nos. of online stack monitoring system in remaining identified stacks have been installed recently (March-17). Particulate Matter Data from 15 stacks, SO_x from two batteries and effluent data from Outlet A is being transmitted to CPCB since 30.09.2015. Flag E attached</p> | | <p>Date: 04/12/2025</p> |
| 2 | AIR QUALITY MONITORING AND PRESERVATION | As proposed, electrostatic precipitator (ESP) shall be provided to sinter Plant, steel melting shop (SMS), Blast Furnace (BF) and Power Plant to control gaseous emissions to 100 mg/Nm ³ . Two-stage Gas cleaning plant (GCP) and ventury scrubbers shall also be provided to BF-8, SMS-II and III, RMP-III and bag filter to RMP-II to control fugitive emissions. Dust suppression system shall be provided to control dust from coal and Iron storage area. Dust extraction system shall be provided in coal crushing and screening, cooler discharge area, product separation area etc. to control fugitive emissions. |
| <p>PPs Submission: Complied</p> <p>At Sinter Plant -2 Multicyclones shall be replaced by ESPs for all four nos. of sinter machines: work in progress All pollution control system in project expansion is designed to achieve chimney emission within 50 mg/Nm³ as per CECB directives. Sinter Plant III is equipped with ESP based pollution control system. Gas Cleaning Plant is being installed at BF-8, SMS-III and bag filters at RMP-II and III. At SMS-II, gas cleaning plant is already installed. Power Plant- 1 is equipped with ESP to control particulate emission and 100 percent gas fired boilers are coming under expansion. Dust suppression system is being installed in new units to control dust from coal and iron ore storage area Dust extraction system are being installed at coal crushing and screening area to control fugitive emission.</p> | | <p>Date: 04/12/2025</p> |
| 3 | AIR QUALITY MONITORING AND PRESERVATION | All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using heat recovery steam generators shall be ensured and no fuel gases shall be discharged into the air. |
| <p>PPs Submission: Complied</p> <p>The appropriate standards prescribed for Coke Oven Batteries is being followed. Complete utilization of Coke Oven (CO) gas is practiced. BSP is committed that there will not be any discharge of CO gas into air.</p> | | <p>Date: 04/12/2025</p> |
| 4 | AIR QUALITY MONITORING AND PRESERVATION | Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. |
| <p>PPs Submission: Complied</p> <p>Norms and guidelines as per MoEF Notification dated 31st March, 2012, for fugitive and gaseous</p> | | <p>Date: 04/12/2025</p> |

| | | |
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| emission at Blast Furnace and Sinter Plants are being followed. | | |
| 5 | WATER QUALITY MONITORING AND PRESERVATION | Total water requirement from Maroda-II reservoir and Tandula canal after expansion shall not exceed 15,981 m ³ /h. Treated waste water shall be recycled and reused for cooling in BF shell, BF gas, valve of hot air blast and the skids in reheating furnaces. The treated effluent shall also be used in GCP for gas cleaning at BF, steel making, slag granulation plant (SGP), boiler make up water etc. Effluent from coke oven shall be treated in BOD plant and reused for coke quenching. All the treated waste water shall be recycled and reused in the process, dust suppression and green belt development Zero effluent discharge shall be strictly followed and no waste water shall be discharged outside the premises. Treated effluent may be discharged only in emergency in water recovery system |
| PPs Submission: Complied Water consumption limit will be adhered. Treated effluent from GCP and STP is being recycled back for cooling/ other uses. Treated Coke Oven effluents from the BOD plant are being used completely for coke quenching. To achieve Zero Discharge following actions are being taken: Outlet A discharge water is being recycled. Outlet B discharges: scheme under finalization. Outlet C discharges: Under tendering stage. Flag F attached. | | Date: 04/12/2025 |
| 6 | WATER QUALITY MONITORING AND PRESERVATION | Prior Permission for the drawl of additional water from the concerned department shall be obtained. |
| PPs Submission: Complied For drawl additional water, application has been submitted to Water Resource Department, Govt. of Chhattisgarh on 20/09/2010. Various meeting and discussion were held with WRD officials since Sep'2010. WRD, Govt. of CG vide letter dtd. 05.05.2014 showed their inability to allocate additional 2.0 TMC water to BSP. However, GM (Utilities) requested again Principal Secretary, WRD, Govt. of CG, dtd. 26.05.2014 for supply of additional 2.0 TMC of water to BSP. The case is being persuaded regularly with WRD, Govt. of CG. BSP is also trying to meet the additional water required through implementation of recycling scheme. | | Date: 04/12/2025 |
| 7 | WATER QUALITY MONITORING AND PRESERVATION | Continuous monitoring of Total Organic Compounds (TOC) shall be done at the outlet of effluent treatment plant (BOD plant). |
| PPs Submission: Complied TOC is incorporated in the ongoing revamping scheme of existing Effluent Treatment Plant at Coke Ovens : work in progress. Details of TOC analyser are as below: Make : E and H Measurement range of 0 to 300 mg TOC/l | | Date: 04/12/2025 |
| 8 | WASTE MANAGEMENT | As proposed, coal and coke fines shall be recycled and reused in the process. Iron ore, fluxes, mill scale etc. shall be recycled to sinter plant to produce sinter. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. All the BOF slag shall be reused in the blast furnace, sinter plant. SMS slag shall also be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner or in a suitably designed landfill as per CPCB guidelines to prevent leaching to the sub-soil and underground aquifer within the premises and efforts shall be made to make further utilization. Waste oil shall be sold to authorized recyclers. |
| PPs Submission: Complied Coke fines are recycled and reused in Sinter Plants. Similarly Iron Ore, Fluxes and Mill Scales are also recycled to Sinter Plant. Blast Furnace Slag from BF -8 will be granulated and sold to Cement | | Date: 04/12/2025 |

| <p>Plant for Cement making. Steel slag is recycled in BF, SMS-1, Sinter Plant and road making. Avenues being searched for enhanced BOF slag utilization in road making , Rail Ballast construction Solid waste is being utilized to the maximum. Remaining waste is being disposed off in an environment friendly manner. Waste oil is recycled for in-house inferior applications. Secured Landfill for Hazardous waste is being constructed: work in progress</p> | | |
|---|----------------------|---|
| 9 | WASTE MANAGEMENT | All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amendment in 2003. |
| <p>PPs Submission: Complied Fly Ash utilization as per current notification is being adhered. Percentage utilization of Fly Ash (100 Percentage fly ash generated has been utilized)</p> | | Date: 04/12/2025 |
| 10 | WASTE MANAGEMENT | A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal. |
| <p>PPs Submission: Complied Following Action undertaken for reduction of solid waste generation : Beneficiated iron ore will be used Only gas fired boiler envisaged in PBS-II expansion and no fly-ash will be generated from it Low slag rate will be achieved in modern BF-8 Mill scale will be reduced after phasing out of BBM, however presently 100 percentage mill scale is recycled.</p> | | Date: 04/12/2025 |
| 11 | GREENBELT | As proposed, green belt shall be developed in 33percent area within and around the plant premises as per the CPCB guidelines in consultation with DFO. |
| <p>PPs Submission: Complied Earlier the area covered under green belt was 31.8 percentage (1654 Ha.). Further, as per the direction of DFO (Durg) plantation has been done in the remaining 1.8 percentage (60 Ha.). As on date 33.6 percentage area around the plant premises is covered under greenbelt.</p> | | Date: 04/12/2025 |
| 12 | MISCELLANEOUS | All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel plants shall be implemented. |
| <p>PPs Submission: Complied Recommendation made in the Charter on Corporate Responsibility for Environment Protection (CREP) is being implemented as per the guidelines of CPCB and compliance report is being regularly submitted and reviewed by National Task Force (CPCB).</p> | | Date: 04/12/2025 |
| General Conditions | | |
| Sr.No. | Condition Type | Condition Details |
| 1 | Statutory compliance | The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government. |
| <p>PPs Submission: Complied The stipulations made by Chhattisgarh Environmental Conservation Board (CECB) are being adhered to.</p> | | Date: 04/12/2025 |
| 2 | Statutory compliance | No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests. |
| <p>PPs Submission: Complied Prior approval will be taken.</p> | | Date: |

| | | | |
|--|---|---|---------------------|
| | | | 04/12/2025 |
| 3 | AIR QUALITY MONITORING AND PRESERVATION | The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and locations. At no time the emission level shall go beyond the prescribed standards. The interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit. | |
| PPs Submission: Complied Gaseous emission from all process and de-dusting stacks are within the norms. Interlocking facilities for process with pollution control equipment exists. Flag E attached | | | Date: 04/12/2025 |
| 4 | AIR QUALITY MONITORING AND PRESERVATION | In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handlings etc. shall be provided. Further, specific measures like provision of dust suppression system consisting of water sprinkling, suction hoods, fans and bag filters etc. shall be installed at material transfer points and other raw material handling areas. Centralized de-dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed height conforming to the standards. Fugitive emissions shall be regularly monitored and records maintained. | |
| PPs Submission: Complied Closed conveyors with dust suppression /extraction system are being provided in the expansion/modernization units. Dust suppression and dust extraction system installed to reduce fugitive emission at major material transfer points and raw materials handling areas at COCCD and OHP. Centralized de-dusting system equipped with Bag filter/ ESPs are being installed at RMP-II, RMP-III, SP-II, SP-III and BF - 8. Height of the stack shall be conforming to standards. Fugitive emissions are being monitored at specified locations. | | | Date: 04/12/2025 |
| 5 | AIR QUALITY MONITORING AND PRESERVATION | At least, four ambient air quality-monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB. | |
| PPs Submission: Complied Four online ambient air quality stations have been installed in consultation with CECB. Data on ambient air quality and stack emission is being sent regularly to CECB/CPCB. | | | Date: 04/12/2025 |
| 6 | WASTE MANAGEMENT | Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 22 (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 | |
| PPs Submission: Complied Industrial waste water is properly collected and treated. Industrial treated wastewater from BSP is discharged outside plant boundary from three outlets viz. Outlet A, B and C. Outlet A discharge water is being recycled. Outlet B discharges: scheme under finalization stage. Outlet C discharges: Under tendering stage. | | | Date: 04/12/2025 |
| 7 | Noise Monitoring & Prevention | The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all | |

| | | |
|---|--|--|
| | | sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (daytime) and 70 dBA (nighttime). |
| <p>PPs Submission: Complied</p> <p>Noise control measures such as acoustic hoods, enclosures etc. are being implemented at high noise areas like Mills and Oxygen Plants to keep the overall noise level within 85 dBA. The ambient noise level is at present below the prescribed standard. Flag G attached</p> | | <p>Date: 04/12/2025</p> |
| 8 | Corporate Environmental Responsibility | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. |
| <p>PPs Submission: Complied</p> <p>Occupational health surveillance of workers is being done on regular basis and records are maintained.</p> | | <p>Date: 04/12/2025</p> |
| 9 | Human Health Environment | The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table. |
| <p>PPs Submission: Complied</p> <p>BSP shall be adhered to recommendation made in the EIA/EMP report for environment protection measures. BSP is engaged in continuous basis for socioeconomic development of surrounding village as part of CSR activities in the following area: Education ,Road Making , Health, Drinking Water, Community development programme, Economic up-liftment activities etc</p> | | <p>Date: 04/12/2025</p> |
| 10 | Human Health Environment | The project 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 programs, educational programs, drinking water supply and health care etc. |
| <p>PPs Submission: Complied</p> <p>Roof rainwater harvesting scheme implemented at Machine shop shops conserving about 35000 m3 rain water/year. In township roof rain water system has been implemented at three school and three office buildings. A tank of 120000 m3 capacity has been made in the township for rain water harvesting.</p> | | <p>Date: 04/12/2025</p> |
| 11 | MISCELLANEOUS | As proposed, Project authorities shall earmark Rs. 736.50 Crores and Rs. 110.50 Crores toward capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry Regional Office at Bhopal. The funds so provided should not be diverted for any other purpose. |
| <p>PPs Submission: Complied</p> <p>Earmarking capital cost and recurring expenditure towards environmental measures in the expansion project is in process. Once the project will be completed total capital cost and recurring cost shall be assessed. Implementation schedule (six monthly compliance report) is being submitted to MoEF Regional office, Bhopal.</p> | | <p>Date: 04/12/2025</p> |
| 12 | MISCELLANEOUS | The Regional Office of this Ministry at Bhopal/CPCB/CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly. |

| | | |
|--|---------------|--|
| <p>PPs Submission: Complied Six monthly compliance reports are being sent to MoEF Regional Office Nagpur.</p> | | <p>Date: 04/12/2025</p> |
| 13 | MISCELLANEOUS | <p>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 CECB and may also be seen at Website of the Ministry of Environment and Forests 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.</p> |
| <p>PPs Submission: Complied BSP had informed the public about the environment clearance through newspaper advertisement in April 2008 and the same has been forwarded to MoEF Regional Office, Bhopal.</p> | | <p>Date: 04/12/2025</p> |
| 14 | MISCELLANEOUS | <p>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.</p> |
| <p>PPs Submission: Complied The final approval of the project was accorded by SAIL Board on 3.4.2007 and the same has been forwarded to MoEF Regional Office, Bhopal.</p> | | <p>Date: 04/12/2025</p> |
| <p>Visit Remarks</p> | | |
| <p>Last Site Visit Report Date:</p> | | <p>N/A</p> |
| <p>Additional Remarks:</p> | | |
| <p>Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p> | | |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

FLAG E

E-1

Stack emission

BHILAI STEEL PLANT
April 2020 to Sep. 2020

Month- April 2020

| A. Stack emission | | | | | | | | | | | |
|----------------------------------|--|--|--|---|---|---|--|--|---------------------------------------|---------------------------------------|--------------------------|
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm3) | SO₂ (250mg/Nm3) | NO_x (150mg/Nm3) | CO (Norm: 1%) |
| Blast Furnace* | | | | | | | | | | | |
| BF-1 (Process) | Stoves | 60 | 2.5 | GCP (Scrubber) | 03 Apr, 10:00-11:10 (70 Minute) | 1675 | 56289 | 17.75 | 89.40 | 76.40 | |
| BF-8 (Process) | Stoves | | | --do-- | 04 Apr, 10:05-11:00 (55 Minute) | 6362 | 157371 | 16.97 | 92.50 | 78.00 | - |

* Blast Furnace stack monitoring done once in a quarte

| A. Stack emission | | | | | | | | | | | |
|----------------------------------|--|--|---|---|---|---|--|--|--|---|-------------------------------------|
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diame ter of the stack (m) (4) | Pollutio n Control unit provide d (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm3) | SO₂ (Norm:800 mg.Nm3), | NO_x (Norm:500 mg/Nm3) | CO (Norm: 3 kg/Tof Coke) |
| Coke Oven | | | | | | | | | | | |
| Battery No. 1 | Battery | 100 | 3.5 | Nil | 09 Apr, 10:20-11:25 (65 Minute) | 659 | 114226 | 45.90 | 108.30 | 98.00 | 2.67 Kg/T coke |
| Battery | Battery | 100 | 3.5 | Nil | 15 Apr, 10:30-11:40 | 648 | 107958 | 46.04 | 103.50 | 98.00 | 2.82 |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| | | | | | | | | | | | |
|----------------|---------|-----|-----|-----|------------------------------------|------|--------|--------------|--------|--------|--------------------------|
| No. 4 | | | | | (70 Minute) | | | | | | Kg/T coke |
| Battery No. 6 | Battery | 100 | 3.5 | Nil | 16 Apr, 10:10-11:10 (60 Minute) | 670 | 120327 | 39.58 | 179.90 | 103.60 | 2.58 Kg/T coke |
| Battery No. 9 | Battery | 100 | 3.5 | Nil | 11 Apr, 11:00-12:00 (60 Minute) | 1206 | 235022 | 34.90 | 102.30 | 106.00 | 2.44 Kg/T coke |
| Battery No. 11 | Battery | 120 | 4.2 | Nil | 08 Apr, 10:15-11:15 (60 Minute) | 1709 | 182599 | 45.97 | 131.70 | 144.00 | 2.54 Kg/T coke |

| A. | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|----------------------------------|---|---|---|----------------------------------|--|-----------------|-----------------|----|
| Stack emission | | | | | | | | | | | |
| (1) Name of the Plant | (2) Stack connected to (Name of the unit) | (3) Height of the stack (m) | (4) Diameter of the stack (m) | (5) Pollution Control unit provided (Name) | (6) Date & Time of the monitoring (duration) | (7) Production fig. of the unit, during the period of monitoring | (8) Flow rate of the flue gas | (9) Parameters (whichever are applicable) | | | |
| | | | | | | | | Particulate matter (PM) (Norm:50mg/Nm3) | SO ₂ | NO _x | CO |
| Sinter Plant | | | | | | | | | | | |
| SP-2 | | | | | | | | | | | |
| SP-2 (M/c-4) | Sintering Machine | 100 | 6 | Multi-Cyclone | 14 Apr, 10:10-10:50 (40 Minute) | 1750 | 237095 | 41.97 | - | - | - |
| SP-3 | | | | | | | | | | | |
| SP-3 (M/c-1) | Sintering Machine | 120 | 7 | ESP | 10 Apr, 10:20-11:02 (42 Minute) | 4396 | 493471 | 46.76 | - | - | - |
| SP-3 (M/c-2) | Sintering Machine | 120 | 7 | ESP | 13 Apr, 10:20-11:00 (40 Minute) | 4396 | 519046 | 48.64 | - | - | - |
| SP-3, M/c-2 (Space de-dusting) | | | | ESP | 11 Apr, 09:50-10:30 (40 Minute) | - | - | 47.94 | - | - | - |
| Lime Dolomite plant | | | | | | | | | | | |
| RMP-1 | | | | | | | | | | | |
| Kiln-2 (RK-2) | Rotary Kiln | 60 | 2 | Venturi Scrubber | 06 Apr, 10:30-11:16 (46 Minute) | 168 | 69067 | 38.68 | | | |
| RMP-2 | | | | | | | | | | | |
| LK-2 | Vertical | 53.2 | 1.2 | Wet | 07 Apr, 11:10- | 150 | 47366 | 36.00 | - | - | - |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| | | | | | | | | | | | |
|----|-------------|----|---|--------------|---------------------------------|-----|-------|-------|---|---|---|
| | Kiln | | | Scrubber | 11:55 (45 Minute) | | | | | | |
| RK | Rotary Kiln | 60 | 2 | Wet Scrubber | 06 Apr, 11:30-12:15 (45 Minute) | 116 | 57481 | 47.96 | - | - | - |

| A. Stack emission | | | | | | | | | | | |
|--------------------------|--|--------------------------------|----------------------------------|---|---|---|----------------------------------|--|--------------------------------------|--------------------------------------|----|
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm3) | SO ₂ (Norm:600 mg/Nm3) | NO _x (Norm:600 mg/Nm3) | CO |
| TPP/CPP (| | | | | | | | | | | |
| Boiler 1 | Boiler | 80 | 4.3 | ESP | 18 Apr, 09:50-10:35 (45 Minute) | 2005 | 118943 | 43.90 | 112.50 | 112.00 | - |
| Boiler 2 | Boiler | 80 | 4.3 | ESP | 18 Apr, 10:50-11:30 (40 Minute) | 1940 | 121870 | 48.48 | 112.30 | 114.00 | - |
| Boiler 3 | Boiler | 80 | 4.3 | Wet Scrubber | 21 Apr, 09:50-10:30 (40 Minute) | 2160 | 89473 | 48.89 | 106.30 | 114.00 | - |
| Boiler 4 | Boiler | 80 | 4.3 | Wet Scrubber | 21 Apr, 10:45-11:25 (40 Minute) | 1820 | 87308 | 46.97 | 96.50 | 112.00 | - |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

Month- May 2020

| A. Stack emission | | | | | | | | | | | |
|----------------------------------|--|--|--|---|---|---|--|--|---------------------------------------|---------------------------------------|--------------------------|
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm3) | SO₂ (250mg/Nm3) | NO_x (150mg/Nm3) | CO (Norm: 1%) |
| SMS – 2 | | | | | | | | | | | |
| LF-1 | Ladle Furnace | 60 | 1.65 | Bag Filter | 19 May, 09:00-09:20 (20 Minute) | 1320 | 75822 | 45.00 | 79.6 | - | - |
| LF-2 | Ladle Furnace | 50 | 1.5 | Bag Filter | 20 May, 09:30-09:50 (20 Minute) | 960 | 91749 | 45.38 | 74.6 | - | - |

| A. Stack emission | | | | | | | | | | | |
|----------------------------------|--|--|--|---|---|---|--|--|---|---|-------------------------------------|
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm3) | SO₂ (Norm:800 mg/Nm3) | NO_x (Norm:500 mg/Nm3) | CO (Norm: 3 kg/Tof Coke) |
| Coke Oven | | | | | | | | | | | |
| Battery No. 1 | Battery | 100 | 3.5 | Nil | 14 May, 08:20-09:30 (70 Minute) | 815 | 103753 | 47.82 | 124.00 | 355.30 | Kg/T coke |
| Battery No. 4 | Battery | 100 | 3.5 | Nil | 14 May, 09:50-10:50 (60 Minute) | 659 | 116445 | 43.56 | 125.00 | 108.00 | Kg/T coke |
| Battery No. 6 | Battery | 100 | 3.5 | Nil | 04 May, 08:40-09:45 (65 Minute) | 648 | 118154 | 38.94 | 178.00 | 98.00 | Kg/T coke |
| Battery | Battery | 100 | 3.5 | Nil | 02 May, 08:50-09:50 (60 Minute) | 1206 | 231075 | 36.95 | 106.50 | 98.00 | Kg/T coke |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| | | | | | | | | | | | |
|----------------|---------|-----|-----|-----|---------------------------------|------|--------|--------------|--------|--------|-----------|
| No. 9 | | | | | Minute) | | | | | | |
| Battery No. 11 | Battery | 120 | 4.2 | Nil | 16 May, 08:15-09:15 (60 Minute) | 1608 | 156403 | 47.93 | 170.00 | 107.00 | Kg/T coke |

| A. | | | | | | | | | | | |
|----------------------------------|--|--|--|---|---|---|--|--|---|---|-----------|
| Stack emission | | | | | | | | | | | |
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm³) (3) | SO₂ (Norm:600mg/Nm³) | NO_x (Norm:600mg/Nm³) | CO |
| Sinter Plant | | | | | | | | | | | |
| SP-2 | | | | | | | | | | | |
| SP-2 (M/c-4) | Sintering Machine | 100 | 6 | Multi-Cyclone | 5 May,09:00-09:40 (40 Minute) | 1930 | 236210 | 48.22 | 90.60 | - | - |
| SP-3 | | | | | | | | | | | |
| SP-3 (M/c-1) | Sintering Machine | 120 | 7 | ESP | 18 May, 09:10-09:55 (45 Minute) | 7772 | 521026 | 37.56 | - | - | - |
| SP-3 (M/c-2) | Sintering Machine | 120 | 7 | ESP | 07 May, 08:30-09:10 (40 Minute) | 8495 | 541266 | 48.18 | - | - | - |
| | | | | | | | | | | | |
| TPP/CPP | | | | | | | | | | | |
| Boiler 1 | Boiler | 80 | 4.3 | ESP | 11 May, 09:00-09:45 (45 Minute) | 2110 | 117906 | 46.57 | 104.60 | 110.00 | - |
| Boiler 2 | Boiler | 80 | 4.3 | ESP | 11 May, 10:00-10:45 (45 Minute) | 1875 | 117875 | 45.35 | 110.00 | 114.00 | - |
| Boiler 3 | Boiler | 80 | 4.3 | Wet Scrubber | 12 May, 09:10-09:50 (40 Minute) | 1880 | 86938 | 47.01 | 110.00 | 113.90 | - |
| Boiler 4 | Boiler | 80 | 4.3 | Wet Scrubber | 12 May, 10:00-10:45 (40 Minute) | 1670 | 89798 | 48.73 | 99.50 | 109.30 | - |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

Month- June 2020

| A. Stack emission | | | | | | | | | | | |
|--------------------------|--|--------------------------------|----------------------------------|---|---|---|----------------------------------|--|--------------------------------------|--------------------------------------|-----------------------------|
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter (PM) (Norm:50mg/Nm3) | SO ₂ (250mg/Nm3) | NO _x (150mg/Nm3) | CO (Norm: 1%) |
| SMS – 2 | | | | | | | | | | | |
| LF-1 | Ladle Furnace | 60 | 1.65 | Bag Filter | 10 Jun, 09:25-09:45 (20 Minute) | 1920 | 95991 | 45.35 | 81.00 | - | - |
| LF-2 | Ladle Furnace | 50 | 1.5 | Bag Filter | 19 Jun, 08:10-08:30 (20 Minute) | 1080 | 108782 | 46.82 | 81.00 | - | - |
| Blast Furnace | | | | | | | | | | | |
| BF-7 (Process) | Stoves | 70 | 3.5 | GCP (Scrubber) | 30 Jun, 09:50-11:00 (70 Minute) | 1059 | 101620 | 18.98 | 85.30 | 108.00 | |
| A. Stack emission | | | | | | | | | | | |
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter (PM) (Norm:50mg/Nm3) | SO ₂ (Norm:800 mg/Nm3) | NO _x (Norm:500 mg/Nm3) | CO (Norm: 3 kg/Tof Coke) |
| Coke Oven | | | | | | | | | | | |
| Battery No. 1 | Battery | 100 | 3.5 | Nil | 05 Jun, 08:20-09:25 (65 Minute) | 815 | 112860 | 44.14 | 112.00 | 99.40 | 2.66Kg/T coke |
| Battery No. 4 | Battery | 100 | 3.5 | Nil | 12 Jun, 08:30-09:35 (65 Minute) | 681 | 117830 | 43.63 | 105.00 | 94.90 | 2.78Kg/T coke |
| Battery | Battery | 100 | 3.5 | Nil | 16 Jun, 08:15-09:15 | 625 | 121267 | 43.69 | 122.00 | 110.50 | 2.54Kg/T coke |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| | | | | | | | | | | | |
|----------------|---------|-----|-----|-----|------------------------------------|------|--------|-------|--------|--------|------------------|
| No. 6 | | | | | (60 Minute) | | | | | | |
| Battery No. 9 | Battery | 100 | 3.5 | Nil | 02 Jun, 08:40-09:40 (60 Minute) | 1206 | 231981 | 46.97 | 105.70 | 104.00 | 2.72Kg/T coke |
| Battery No. 11 | Battery | 120 | 4.2 | Nil | 11 Jun, 08:20-09:20 (60 Minute) | 1729 | 183214 | 42.82 | 128.30 | 110.00 | 2.63Kg/T coke |

| A. | | | | | | | | | | | |
|------------------------------|--|--------------------------------|----------------------------------|---|---|---|----------------------------------|--|--|--|------|
| Stack emission | | | | | | | | | | | |
| (1) Name of the Plant | (2) Stack connected to (Name of the unit) | (3) Height of the stack (m) | (4) Diameter of the stack (m) | (5) Pollution Control unit provided (Name) | (6) Date & Time of the monitoring (duration) | (7) Production fig. of the unit, during the period of monitoring | (8) Flow rate of the flue gas | (9) Parameters (whichever are applicable) | | | |
| | | | | | | | | (PM) Particulate matter (Norm: 50mg/Nm ³) | (SO ₂) SO ₂ (Norm: 600mg/Nm ³) | (NO _x) NO _x (Norm: 600mg/Nm ³) | (CO) |
| Sinter Plant | | | | | | | | | | | |
| SP-2 | | | | | | | | | | | |
| SP-2 (M/c-1) | Sintering Machine | 100 | 6 | Multi-Cyclone | 09 Jun, 08:00-08:40 (40 Minute) | 1353 | 228742 | 47.07 | 94.5 | - | - |
| SP-2 (M/c-2) | Sintering Machine | 100 | 6 | Multi-Cyclone | 09 Jun, 09:00-09:40 (40 Minute) | 1353 | 232000 | 39.44 | 89.4 | | |
| SP-2 (M/c-4) | Sintering Machine | 100 | 6 | Multi-Cyclone | 30 Jun, 08:00-08:40 (40 Minute) | 1581 | 238350 | 44.60 | 108.60 | | |
| SP-3 | | | | | | | | | | | |
| SP-3 (M/c-1) | Sintering Machine | 120 | 7 | ESP | 03 Jun, 08:20-09:05 (45 Minute) | 13157 | 497504 | 30.13 | - | - | - |
| SP-3 (M/c-2) | Sintering Machine | 120 | 7 | ESP | 04 Jun, 08:30-09:10 (40 Minute) | 8138 | 523421 | 44.95 | - | - | - |
| SP-3, M/c-1(Space dedusting) | | | | ESP | 17 Jun, 08:30-09:10 (40 Minute) | - | - | 46.51 | | | |
| TPP/CPP | | | | | | | | | | | |
| Boiler 1 | Boiler | 80 | 4.3 | ESP | 15 Jun, 08:00-08:45 (45 Minute) | 2275 | 117660 | 48.70 | 110.60 | 104.50 | - |
| Boiler 2 | Boiler | 80 | 4.3 | ESP | 15 Jun, 09:00- | 2090 | 119052 | 49.23 | 109.60 | 101.50 | - |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| | | | | | | | | | | | |
|----------|--------|----|-----|--------------|---------------------------------|------|--------|-------|--------|--------|---|
| | | | | | 09:45 (45 Minute) | | | | | | |
| Boiler 3 | Boiler | 80 | 4.3 | Wet Scrubber | 08 Jun, 08:10-08:50 (40 Minute) | 1730 | 87238 | 38.99 | 112.50 | 120.00 | - |
| Boiler 4 | Boiler | 80 | 4.3 | Wet Scrubber | 08 Jun, 09:00-09:40 (40 Minute) | 1920 | 87226 | 48.21 | 109.90 | 114.00 | - |
| Boiler 5 | Boiler | 80 | 4.3 | ESP | 23 Jun, 08:40-09:25 (45 Minute) | 2200 | 121560 | 48.64 | 110.80 | 119.60 | |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

Month- July 2020

| A. Stack emission | | | | | | | | | | | |
|----------------------------------|--|--|--|---|---|---|--|--|---|---|-------------------------------------|
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm3) | SO₂ (250mg/Nm3) | NO_x (150mg/Nm3) | CO (Norm: 1%) |
| SMS – 2 | | | | | | | | | | | |
| LF-1 | Ladle Furnace | 60 | 1.65 | Bag Filter | 10 Jul, 08:50-09:10 (20 Minute) | 1320 | 90414 | 48.13 | 69.80 | - | - |
| LF-2 | Ladle Furnace | 50 | 1.5 | Bag Filter | 18 Jul, 09:10-09:30 (20 Minute) | 3360 | 101170 | 46.03 | 80.60 | - | - |
| Blast Furnace | | | | | | | | | | | |
| BF-1 (Process) | Stoves | 60 | 2.5 | GCP (Scrubber) | 21 Jul, 08:40-09:50 (70 Minute) | 1061 | 57528 | 17.59 | 89.60 | 79.60 | |
| BF-7 (Process) | Stoves | 70 | 3.5 | GCP (Scrubber) | 17 Jul, 08:30-09:40 (70 Minute) | 3528 | 101974 | 17.10 | 102.60 | 112.20 | |
| A. Stack emission | | | | | | | | | | | |
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm3) | SO₂ (Norm:800 mg.Nm3) | NO_x (Norm:500 mg/Nm3) | CO (Norm: 3 kg/Tof Coke) |
| Coke Oven | | | | | | | | | | | |
| Battery No. 1 | Battery | 100 | 3.5 | Nil | 02 Jul, 08:20-09:25 (65 Minute) | 827 | 112635 | 43.97 | 114.00 | 94.00 | 2.71 Kg/T coke |
| Battery | Battery | 100 | 3.5 | Nil | 04 Jul, 08:30-09:30 | 815 | 118487 | 46.76 | 114.70 | 110.00 | 2.67 Kg/T coke |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| | | | | | | | | | | | |
|----------------|---------|-----|-----|-----|------------------------------------|------|--------|-------|--------|--------|-------------------|
| No. 4 | | | | | (60 Minute) | | | | | | |
| Battery No. 6 | Battery | 100 | 3.5 | Nil | 07 Jul, 09:00-10:00 (60 Minute) | 731 | 121367 | 41.78 | 106.20 | 110.00 | 2.49 Kg/T coke |
| Battery No. 9 | Battery | 100 | 3.5 | Nil | 06 Jul, 09:00-10:12 (72 Minute) | 1407 | 195333 | 45.76 | 103.60 | 113.20 | 2.79 Kg/T coke |
| Battery No. 11 | Battery | 120 | 4.2 | Nil | 02 Jul, 08:30-09:30 (60 Minute) | 1568 | 181734 | 38.90 | 120.50 | 114.00 | 2.81Kg/T coke |

| A. | | | | | | | | | | | |
|--------------------------|--|--------------------------------|----------------------------------|---|---|---|----------------------------------|--|--|--|----|
| Stack emission | | | | | | | | | | | |
| (1) Name of the Plant | (2) Stack connected to (Name of the unit) | (3) Height of the stack (m) | (4) Diameter of the stack (m) | (5) Pollution Control unit provided (Name) | (6) Date & Time of the monitoring (duration) | (7) Production fig. of the unit, during the period of monitoring | (8) Flow rate of the flue gas | (9) Parameters (whichever are applicable) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm ³) | SO ₂ (Norm:600mg/Nm ³) | NO _x (Norm:600mg/Nm ³) | CO |
| Sinter Plant | | | | | | | | | | | |
| SP-2 | | | | | | | | | | | |
| SP-2 (M/c-3) | Sintering Machine | 100 | 6 | Multi-Cyclone | 24 Jul, 08:55-09:35 (40 Minute) | 1752 | 238200 | 37.94 | 104.70 | | |
| SP-2 (M/c-4) | Sintering Machine | 100 | 6 | Multi-Cyclone | 14 Jul, 08:40-09:15 (35 Minute) | 1752 | 253606 | 48.94 | 99.70 | | |
| SP-3 | | | | | | | | | | | |
| SP-3 (M/c-1) | Sintering Machine | 120 | 7 | ESP | 15 Jul, 09:00-09:40 (40 Minute) | 3404 | 515735 | 45.05 | - | - | - |
| SP-3 (M/c-2) | Sintering Machine | 120 | 7 | ESP | 09 Jul, 09:10-09:50 (40 Minute) | 8793 | 542204 | 46.93 | - | - | - |
| RMP-2 | | | | | | | | | | | |
| RK | Rotary Kiln | 60 | 2 | Wet Scrubber | 15 Jul, 09:00-09:50 (50 Minute) | 77 | 51577 | 41.93 | 66.5 | | |
| TPP/CPP | | | | | | | | | | | |
| Boiler 1 | Boiler | 80 | 4.3 | ESP | 08 Jul, 08:05-08:50 (45 Minute) | 2080 | 116596 | 46.13 | 109.30 | 116.00 | - |
| Boiler 2 | Boiler | 80 | 4.3 | ESP | 08 Jul, 09:00-09:45 | 1835 | 116790 | 42.98 | 110.90 | 114.60 | - |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| | | | | | | | | | | | |
|----------|--------|----|-----|--------------|------------------------------------|------|--------|-------|--------|--------|---|
| | | | | | (45 Minute) | | | | | | |
| Boiler 3 | Boiler | 80 | 4.3 | Wet Scrubber | 13 Jul, 08:10-08:50 (40 Minute) | 1760 | 87878 | 37.96 | 104.80 | 110.00 | - |
| Boiler 4 | Boiler | 80 | 4.3 | Wet Scrubber | 13 Jul, 09:05-09:50 (45 Minute) | 1670 | 85032 | 47.97 | 96.70 | 116.40 | - |
| Boiler 5 | Boiler | 80 | 4.3 | ESP | 16 Jul, 08:10-08:50 (40 Minute) | 1880 | 123298 | 44.02 | 98.70 | 114.00 | |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

Month- Aug 2020

| A. Stack emission | | | | | | | | | | | |
|--------------------------|---|-----------------------------------|-------------------------------------|--|--|---|----------------------------------|--|---|---|------------------------------|
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm ³) | SO ₂ (250mg/Nm ³) | NO _x (150mg/Nm ³) | CO (Norm: 1%) |
| SMS - 2 | | | | | | | | | | | |
| LF-1 | Ladle Furnace | 60 | 1.65 | Bag Filter | 20 Aug, 09:35-10:15 (40 Minute) | 1822 | 101268 | 47.87 | 92.00 | - | - |
| LF-2 | Ladle Furnace | 50 | 1.5 | Bag Filter | 11 Aug, 09:00-09:20 (20 Minute) | 1680 | 102262 | 44.80 | 75.00 | - | - |
| A. Stack emission | | | | | | | | | | | |
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm ³) | SO ₂ (Norm:80mg/Nm ³) | NO _x (Norm:50mg/Nm ³) | CO (Norm: 3 kg/T of Coke) |
| Coke Oven | | | | | | | | | | | |
| Battery No. 1 | Battery | 100 | 3.5 | Nil | 12 Aug, 10:15-11:15 (60 Minute) | 905 | 111761 | 39.52 | 67.20 | 70.80 | 2.68 Kg/T coke |
| Battery No. 3 | Battery | 100 | 3.5 | Nil | 28 Aug, 10:50-11:55 (65 Minute) | 748 | 111265 | 48.83 | 114.00 | 92.40 | 2.70 Kg/T coke |
| Battery No. 4 | Battery | 100 | 3.5 | Nil | 17 Aug, 09:15-10:25 (70 Minute) | 748 | 110573 | 45.88 | 102.10 | 98.00 | 2.53 Kg/T coke |
| Battery | Battery | 100 | 3.5 | Nil | 05 Aug, 09:45-10:30 | 726 | 116667 | 41.53 | 108.60 | 116.40 | 2.57 Kg/T |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| y No. 6 | | | | | (45 Minute) | | | | | | coke |
|------------------------------|--|--------------------------------|----------------------------------|---|---|---|----------------------------------|--|--------------------------------------|--------------------------------------|-------------------|
| Battery No. 9 | Battery | 100 | 3.5 | Nil | 04 Aug, 09:30-10:40 (70 Minute) | 1649 | 203763 | 45.14 | 101.94 | 91.50 | 2.71 Kg/T coke |
| Battery No. 11 | Battery | 120 | 4.2 | Nil | 06 Aug, 08:50-09:40 (50 Minute) | 1689 | 180885 | 48.30 | 112.00 | 118.60 | 2.78Kg/T coke |
| A. Stack emission | | | | | | | | | | | |
| (1) Name of the Plant | (2) Stack connected to (Name of the unit) | (3) Height of the stack (m) | (4) Diameter of the stack (m) | (5) Pollution Control unit provided (Name) | (6) Date & Time of the monitoring (duration) | (7) Production fig. of the unit, during the period of monitoring | (8) Flow rate of the flue gas | (9) Parameters (whichever are applicable) | | | |
| | | | | | | | | (Norm:50mg/N m3) Particulate matter (PM) | (Norm:600mg/N m3) SO ₂ | (Norm:600mg /Nm3) NO _x | CO |
| Sinter Plant | | | | | | | | | | | |
| SP-2 | | | | | | | | | | | |
| SP-2 (M/c-2) | Sintering Machine | 100 | 6 | Multi-Cyclone | 22 Aug, 09:30-10:10 (40 Minute) | 1822 | 237846 | 46.44 | 83.60 | | |
| SP-2 (M/c-3) | Sintering Machine | 100 | 6 | Multi-Cyclone | 07 Aug, 08:45-09:25 (40 Minute) | 2042 | 234663 | 48.16 | 73.70 | | |
| SP-3 | | | | | | | | | | | |
| SP-3 (M/c-1) | Sintering Machine | 120 | 7 | ESP | 31 Aug, 01:15-02:00 (45 Minute) | 6723 | 514703 | 20.64 | - | - | - |
| SP-3 (M/c-2) | Sintering Machine | 120 | 7 | ESP | 13 Aug, 09:30-10:15 (45 Minute) | 5896 | 492036 | 48.23 | - | - | - |
| SP-3, M/c-1(Space dedusting) | | | | ESP | 14 Aug, 08:20-09:00 (40 Minute) | - | - | 43.00 | - | - | - |
| RMP-2 | | | | | | | | | | | |
| RK | Rotary Kiln | 60 | 2 | Wet Scrubber | 19 Aug, 08:20-09:10 (50 Minute) | 112 | 48636 | 45.92 | 71.60 | | |
| TPP/CPP | | | | | | | | | | | |
| Boiler 1 | Boiler | 80 | 4.3 | ESP | 10 Aug, 08:50-09:35 (45 Minute) | 2370 | 117959 | 47.70 | 110.00 | 112.50 | - |
| Boiler 3 | Boiler | 80 | 4.3 | Wet Scrubber | 18 Aug, 09:40-10:20 (40 Minute) | 1755 | 87318 | 47.30 | 96.30 | 103.50 | - |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| | | | | | | | | | | | |
|----------|--------|----|-----|--------------|------------------------------------|------|--------|-------|-------|--------|---|
| Boiler 4 | Boiler | 80 | 4.3 | Wet Scrubber | 18 Aug, 10:40-11:20 (40 Minute) | 1800 | 87251 | 46.95 | 98.75 | 107.10 | - |
| Boiler 5 | Boiler | 80 | 4.3 | ESP | 24 Aug, 10:30-11:20 (50 Minute) | 2000 | 112448 | 48.61 | 82.40 | 96.80 | - |
| Boiler 6 | Boiler | 80 | 4.3 | ESP | 24 Aug, 11:30-12:15 (45 Minute) | 640 | 324106 | 38.54 | 80.60 | 92.00 | |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

Month- Sep 2020

| A. Stack emission | | | | | | | | | | | |
|----------------------------------|---|--|--|---|---|---|--|--|--|--|--------------------------------------|
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50mg/Nm3) | SO₂ (250mg/Nm3) | NO_x (150mg/Nm3) | CO (Norm : 1%) |
| Blast Furnace | | | | | | | | | | | |
| BF-5 | Stoves | 60 | 3.5 | GCP (Scrubber) | 22-Sep-20, 11:00-12:10 (70 Minute) | 1408 | 113698 | 17.24 | 104.60 | 112.70 | - |
| BF-8 | Stoves | 70 | 3.5 | GCP (Scrubber) | 15-Sep-20,10:30-11:35 (65 Minute) | 7561 | 157194 | 19.06 | 81.00 | 109.60 | - |
| SMS-2 | | | | | | | | | | | |
| LF-1 | Ladle Furnace | 60 | 1.65 | Bag Filter | 11-Sep-20,09:00-09:25 (25 Minute) | 2160 | 102962 | 46.27 | 89.60 | - | - |
| LF-2 | Ladle Furnace | 50 | 1.50 | Bag Filter | 18-Sep-20,11:00-11:25 (25 Minute) | 2400 | 105017 | 42.15 | 77.60 | - | - |
| A. Stack emission | | | | | | | | | | | |
| Name of the Plant (1) | Stack connect ed to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring (duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50 mg/Nm3) | SO₂ (Norm:800mg/Nm3) | NO_x (Norm:500mg/Nm3) | CO (Norm: 3 kg/T of Coke) |
| Coke Oven | | | | | | | | | | | |
| Battery No. 1 | Battery | 100 | 3.5 | Nil | 03 Sep-20, 09:25-10:35 (70 Minute) | 894 | 109017 | 45.44 | 110.00 | 88.70 | 2.59 Kg/T coke |
| Battery No. 3 | Battery | 100 | 3.5 | Nil | 09 Sep-20, 09:50-10:30 | 759 | 83550 | 46.25 | 98.60 | 103.80 | 2.65 Kg/T coke |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| Battery No. 4 | Battery | 100 | 3.5 | Nil | (40 Minute) 09 Sep-20, 10:40-11:50 (70 Minute) | 759 | 91572 | 40.08 | 89.50 | 98.60 | 2.61 Kg/T coke |
|--------------------------|--|--------------------------------|----------------------------------|---|--|---|----------------------------------|--|--------------------------------------|--------------------------------------|-------------------|
| Battery No. 6 | Battery | 100 | 3.5 | Nil | 04 Sep-20, 08:45-09:45 (60 Minute) | 860 | 112038 | 31.93 | 95.30 | 102.40 | 2.70 Kg/T coke |
| Battery No. 9 | Battery | 100 | 3.5 | Nil | 05 Sep-20, 09:15-10:30 (75 Minute) | 1769 | 192040 | 45.49 | 105.80 | 110.40 | 2.72 Kg/T coke |
| Battery No. 11 | Battery | 120 | 4.2 | Nil | 02 Sep-20, 09:50-10:55 (65 Minute) | 1789 | 174105 | 42.51 | 91.60 | 108.60 | 2.74 Kg/T coke |
| DCDA Acid Plant | DCDA Acid Plant | 40 | 0.8 | Absorption Tower | 26 Sep-20, 09:50-10:50 (60 Minute) | 76 | 9453 | - | 1.63 Kg/T Sulphuric Acid | - | - |
| A. Stack emission | | | | | | | | | | | |
| Name of the Plant (1) | Stack connected to (Name of the unit) (2) | Height of the stack (m) (3) | Diameter of the stack (m) (4) | Pollution Control unit provided (Name) (5) | Date & Time of the monitoring(duration) (6) | Production fig. of the unit, during the period of monitoring (7) | Flow rate of the flue gas (8) | Parameters (whichever are applicable) (9) | | | |
| | | | | | | | | Particulate matter(PM) (Norm:50 mg/Nm3) | SO ₂ (Norm:600 mg/Nm3) | NO _x (Norm:600 mg/Nm3) | CO |
| Sinter Plant | | | | | | | | | | | |
| SP-2 | | | | | | | | | | | |
| SP-2 (M/c-2) | Sintering Machine | 100 | 6 | Multi-Cyclone | 07 Sep, 09:05-09:50 (45 Minute) | 1198 | 230131 | 40.36 | 79.00 | - | - |
| SP-2 (M/c-3) | Sintering Machine | 100 | 6 | Multi-Cyclone | 10 Sep, 10:00-10:30 (30 Minute) | 1729 | 335514 | 48.7 | 98.00 | - | - |
| SP-2 (M/c-4) | Sintering Machine | 100 | 6 | Multi-Cyclone | 10 Sep, 10:45-11:15 (30 Minute) | 1729 | 301078 | 48.78 | 98.90 | - | - |
| SP-3 | | | | | | | | | | | |
| SP-3 (M/c-1) | Sintering Machine | 120 | 7 | ESP | 25 Sep, 10:15-11:05 (50 Minute) | 7363 | 442638 | 31.86 | - | - | - |
| SP-3 (M/c-2) | Sintering Machine | 120 | 7 | ESP | 29 Sep, 10:00-10:45 (45 Minute) | 8006 | 505521 | 36.43 | - | - | - |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

| | | | | | | | | | | | |
|-------------------------------|-------------|----|-----|--------------|---------------------------------|------|--------|-------|--------|--------|---|
| SP-3, M/c-2 (Space dedusting) | | | | ESP | 22 Sep, 10:00-10:36 (36 Minute) | - | - | 45.66 | - | - | - |
| RMP-2 | | | | | | | | | | | |
| RK | Rotary Kiln | 60 | 2 | Wet Scrubber | 14 Sep, 09:30-10:20 (50 Minute) | 115 | 51593 | 35.10 | 66.20 | | |
| TPP/CPP | | | | | | | | | | | |
| Boiler 1 | Boiler | 80 | 4.3 | ESP | 14 Sep, 09:45-10:30 (45 Minute) | 1315 | 116907 | 47.98 | 109.70 | 115.40 | - |
| Boiler 3 | Boiler | 80 | 4.3 | Wet Scrubber | 08 Sep, 10:00-10:40 (40 Minute) | 1855 | 84492 | 34.72 | 94.80 | 102.90 | - |
| Boiler 4 | Boiler | 80 | 4.3 | Wet Scrubber | 08 Sep, 10:45-11:30 (45 Minute) | 1953 | 81369 | 31.56 | 102.10 | 110.40 | - |
| Boiler 5 | Boiler | 80 | 4.3 | ESP | 16 Sep, 11:15-12:05 (50 Minute) | 2935 | 121158 | 47.38 | 108.30 | 116.10 | - |
| Boiler 6 | Boiler | 80 | 4.3 | ESP | 16 Sep, 12:15-01:00 (45 Minute) | 1580 | 339984 | 37.31 | 82.00 | 88.90 | |

BHILAI STEEL PLANT
April 2020 to Sep. 2020

Fugitive April 2020-Sep.2020

FLAG E

E-2

Fugitive Emission

Fugitive April 2020-Sep.2020

Fugitive Emissions Status Month- April 2020

| S. No (1) | Name of the Unit (2) | Location of the Station (distance) (3) | Up wind / Down wind (4) | Date & time of the monitoring (5) | Parameters (as applicable) (6) | | | | | | Remarks* |
|--------------|-------------------------|---|----------------------------|--------------------------------------|---|--------------------------|--------------------------|------------------|--------------|------------------------|--|
| | | | | | PM ₁₀ µg/m ³ (4000) | SO ₂ (200) | NO _x (150) | Pb (2) | CO (5000) | BaP | |
| 1 | Coke Oven area | In front of Batt.-1 | | 09 Apr -09:55-10:00 | 1350 | - | - | - | - | (Bat-3) 1704 ng/M3* | Norms as per GSR 277 (E) dtd 30/03/2012 |
| 2 | Sinter Plant | SP-II (Near Exhauster Area) | | 14 Apr -11:50-11:55 | 1479 | - | - | - | - | - | - |
| 3 | Blast Furnace | BF-1, Near Cast house | | 23 Apr -10:30-11:45 | 996.82 | 33.50 | 49.30 | 0.103* (BF-6) | 920 | - | Norms as per GSR 277 (E) dtd 30/03/2012 |
| 4 | Steel Melting Shop-2 | LF-1, In front of LD Convertor | | 24 Apr -08:20-10:20 | 986.70 | 35.70 | 47.50 | 0.033* | 1204 | - | Norms as per GSR 277 (E) dtd 30/03/2012 |
| 5 | Thermal Power Plant-1 | Near Boiler-1 | | 18 Apr -10:40-10:45 | 1469 | - | - | - | | | - |
| 6 | Lime dolomite plant- 1 | RMP-1 (Near RK-2 Area) | | 06 Apr -10:45-10:50 | 1379 | - | - | - | | | - |
| 7 | Lime dolomite plant-2 | RMP-2 (Near welfare building) | | 06 Apr -12:25-12:30 | 1368 | - | - | - | | | - |

Note : *Bap Monitoring done In October-2019,Heavy metal monitoring done in January-2020 ----- NT- not Traceable

Fugitive April 2020-Sep.2020

Fugitive Emissions Status Month- May 2020

| S. No (1) | Name of the Unit (2) | Location of the Station (distance) (3) | Up wind / Down wind (4) | Date & time of the monitoring (5) | Parameters (as applicable) (6) | | | | | | |
|--------------|-------------------------|---|----------------------------|--------------------------------------|---|--------------------------|--------------------------|-----------|--------------|------------------------|--|
| | | | | | PM ₁₀ µg/m ³ (4000) | SO ₂ (200) | NO _x (150) | Pb (2) | CO (5000) | BaP | Remarks* |
| 1 | Coke Oven area | In front of Batt.-4 | | 26 May -09:40-10:10 | 1796 | - | - | - | - | (Bat-3) 1704 ng/M3* | <i>Norms as per GSR 277 (E) dtd 30/03/2012</i> |
| 2 | Sinter Plant | SP-II (Near Exhauster Area) | | 25 May -08:30-10:30 | 2526 | - | - | - | - | - | - |
| 3 | Blast Furnace | BF-7, Near Cast house | | 30 May -13:00-14:00 | 983.90 | 34.60 | 47.50 | 0.192* | 920* | - | <i>Norms as per GSR 277 (E) dtd 30/03/2012</i> |
| 4 | Steel Melting Shop-2 | LF-1, Near Chimney | | 19 May -10:00-12:00 | 729.47 | 30.50 | 47.10 | 0.536* | 1204* | - | <i>Norms as per GSR 277 (E) dtd 30/03/2012</i> |
| 5 | Thermal Power Plant-1 | Near Boiler-2 | | 27 May -08:00-10:00 | 2225 | - | - | - | - | - | - |
| 6 | Lime dolomite plant- 1 | RMP-1 (Near RK-2 Area) | | 30 May -08:10-10:10 | 1539 | - | - | - | - | - | - |
| 7 | Lime dolomite plant-2 | RMP-2 (Near welfare building) | | 29 May -08:30-10:30 | 1970 | - | - | - | - | - | - |

Note : *Bap Monitoring done In October-2019,Heavy metal monitoring done in January-2020 ----- NT- not Traceable

Fugitive April 2020-Sep.2020

Fugitive Emissions Status Month- June 2020

| S. No (1) | Name of the Unit (2) | Location of the Station (distance) (3) | Up wind / Down wind (4) | Date & time of the monitoring (5) | Parameters (as applicable) (6) | | | | | | Remarks* |
|--------------|-------------------------|---|----------------------------|--------------------------------------|---|--------------------------|--------------------------|-----------|--------------|-------------|-----------------------|
| | | | | | PM ₁₀ µg/m ³ (4000) | SO ₂ (200) | NO _x (150) | Pb (2) | CO (5000) | BaP | |
| 1 | Coke Oven area | In front of Batt.-1 | | 05 Jun -10:15-10:20 | 1639 | - | - | - | - | 990* | Coke Oven area |
| 2 | Sinter Plant | SP-II (Near Exhauster Area) | | 09 Jun -10:55-11:00 | 1911 | - | - | - | - | - | Sinter Plant |
| 3 | Blast Furnace | BF-1, Near Near Welfare Building | | 24 Jun -08:30-11:30 | 914 | 26.90 | 49.20 | 0.192* | 920* | 271* | Blast Furnace |
| 4 | Steel Melting Shop-2 | Near Ferro Alloy Area | | 25 Jun -08:10-11:10 | 1145 | 31.60 | 52.80 | 0.536* | 1204* | 162* | Steel Melting Shop-2 |
| 5 | Thermal Power Plant-1 | Near Boiler-3 & 4 | | 08 Jun -10:25-10:30 | 1628 | - | - | - | | - | Thermal Power Plant-1 |
| 6 | Lime dolomite plant- 1 | RMP-1 (Near RK-2 Area) | | 30 Jun -11:55-12:00 | 649 | - | - | - | | - | Lime dolomite plant-1 |
| 7 | Lime dolomite plant-2 | RMP-2 (Near welfare building) | | 30 Jun -12:25-12:30 | 1203 | - | - | - | | - | Lime dolomite plant-2 |

Note : *Bap Monitoring done In October-2019,Heavy metal monitoring done in January-2020 ----- NT- not Traceable

Fugitive April 2020-Sep.2020

Fugitive Emissions Status Month- July 2020

| S. No (1) | Name of the Unit (2) | Location of the Station (distance) (3) | Up wind / Down wind (4) | Date & time of the monitoring (5) | Parameters (as applicable) (6) | | | | | | |
|--------------|-------------------------|---|----------------------------|--------------------------------------|---|--------------------------|--------------------------|------------|--------------|-------|-----------------------|
| | | | | | PM ₁₀ µg/m ³ (4000) | SO ₂ (200) | NO _x (150) | Pb* (2) | CO (5000) | BaP** | Remarks* |
| 1 | Coke Oven area | In front of Batt.-1 | | 03 Jul -10:25-10:30 | 1508 | - | - | - | - | 990** | Coke Oven area |
| 2 | Sinter Plant | SP-II (Near Exhauster Area) | | 14 Jul -09:55-10:00 | 1613 | - | - | - | - | - | Sinter Plant |
| 3 | Blast Furnace | BF-1, Near Chimney | | 27 Jul -09:45-12:15 | 623 | 25.76 | 47.06 | 0.165* | 920* | 271** | Blast Furnace |
| 4 | Steel Melting Shop-2 | In front of LD Converter | | 18 Jul -08:15-11:15 | 1008 | 34.60 | 54.87 | 0.103* | 1204* | 162** | Steel Melting Shop-2 |
| 5 | Thermal Power Plant-1 | Near Boiler-1 & 2 | | 08 Jul -10:05-10:10 | 1511 | - | - | - | | - | Thermal Power Plant-1 |
| 6 | Lime dolomite plant- 1 | RMP-1 (Entrance) | | 25 Jul -10:35-11:40 | 677 | - | - | - | | - | Lime dolomite plant-1 |
| 7 | Lime dolomite plant-2 | RMP-2 (Near welfare building) | | 25 Jul -10:45-10:50 | 1386 | - | - | - | | - | Lime dolomite plant-2 |

NT- not Traceable
Note : * Heavy metal analysis & CO results submitted by RDCIS (Sample collected in June-2020)
** PAH not yet provided by RDCIS hence the earlier readings are repeated.

Fugitive April 2020-Sep.2020

Fugitive Emissions Status Month- Aug 2020

| S. No (1) | Name of the Unit (2) | Location of the Station (distance) (3) | Up wind / Down wind (4) | Date & time of the monitoring (5) | Parameters (as applicable) (6) | | | | | | Remarks* |
|--------------|-------------------------|---|----------------------------|--------------------------------------|---|--------------------------|--------------------------|------------|--------------|-------|------------------------|
| | | | | | PM ₁₀ µg/m ³ (4000) | SO ₂ (200) | NO _x (150) | Pb* (2) | CO (5000) | BaP** | |
| 1 | Coke Oven area | In front of Batt.-4 | | 05 Aug -10:55-11:00 | 1068 | - | - | - | - | 300** | Coke Oven area |
| 2 | Sinter Plant | SP-II (Near Exhauster Area) | | 07 Aug -11:10-11:15 | 1152 | - | - | - | - | - | Sinter Plant |
| 3 | Blast Furnace | BF # 7, Near Hearth area | | 25 Aug -08:30-12:30 | 405.65 | 25.76 | 49.10 | 0.165* | - | - | Blast Furnace |
| 4 | Steel Melting Shop-2 | LF-1, Near Chimney | | 21 Aug -08:00-11:00 | 1054 | 38.60 | 52.60 | 0.103* | - | - | Steel Melting Shop-2 |
| 5 | Thermal Power Plant-1 | Near Boiler-1 | | 10 Aug -10:55-11:00 | 1127 | - | - | - | - | - | Thermal Power Plant-1 |
| 6 | Lime dolomite plant- 1 | RMP-1 (Entrance) | | 19 Aug -11:05-11:10 | 653 | - | - | - | - | - | Lime dolomite plant- 1 |
| 7 | Lime dolomite plant-2 | RMP-2 (Near welfare building) | | 19 Aug -11:35-11:40 | 1124 | - | - | - | - | - | Lime dolomite plant-2 |

NT- not Traceable

Note :
2020)

*** Heavy metal analysis & CO results submitted by RDCIS (Sample collected in June-**

**** PAH monitoring done by RDCIS in July 2020.**

FLAG E

E-3

AMBIENT AIR QUALITY

Ambient Air April 2020-Sep.2020

| AMBIENT AIR QUALITY | | | | | | | | | | | | | | | |
|----------------------------|--------------------------------|----------------------------|--|-----------------------------------|------------------------|-----------------------|-----------------------|-----------------------|-------------|-------------|----------------------|--------------|------------|--------------|-----------------------------------|
| Month-April | | | | | | | | | | | | | | | |
| S No. | Location of the Station | Up wind / Down wind | Date & time of the monitoring | Parameters (as applicable) | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | |
| | | | | PM_{2.5} | PM₁₀ | SO₂ | NO₂ | NH₃ | CO | BaP* | O₃ | Pb* | As* | Ni* | C₆H₆ |
| | | Norm | 24 hrs | 60 | 100 | 80 | 80 | 400 | 4000 | - | 180 | 1 | - | - | - |
| | | | Annual | 40 | 60 | 50 | 40 | 100 | 4 | 1 | 100 | 0.5 | 6 | 20 | 5 |
| 1 | Civic Centre | | | 23.88 | 46.37 | 13.5 | 14.64 | 1.24 | 410 | NT | 37.3 | 0.021 | - | 0.007 | 0.33 |
| 2 | IspatBhavan | | | 2.9 | 26.46 | 9.2 | 14.86 | 0.51 | 460 | NT | - | - | - | - | - |
| 3 | Rail Mill | | | 9.99 | 39.69 | 12.3 | 11.64 | 1.12 | 560 | NT | 105.9 | - | - | - | 1.12 |
| 4 | OP-2 | | | 19.71 | 53.7 | 15.2 | ** | ** | 500 | | * | | | | 0.23 |

Note: if monitoring of CO is done on 8 hourly basis, then Norm is 2000 $\mu\text{g}/\text{m}^3$. Otherwise, norm is 4000 $\mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr.

** under maintenance

*Not done regularly.

Ambient Air April 2020-Sep.2020

| AMBIENT AIR QUALITY | | | | | | | | | | | | | | | |
|----------------------------|--------------------------------|----------------------------|--|-----------------------------------|------------------------|-----------------------|-----------------------|-----------------------|-------------|-------------|----------------------|------------|------------|------------|-----------------------------------|
| Month-May | | | | | | | | | | | | | | | |
| S No. | Location of the Station | Up wind / Down wind | Date & time of the monitoring | Parameters (as applicable) | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | |
| | | | | PM_{2.5} | PM₁₀ | SO₂ | NO₂ | NH₃ | CO | BaP* | O₃ | Pb* | As* | Ni* | C₆H₆ |
| | | Norm | 24 hrs | 60 | 100 | 80 | 80 | 400 | 4000 | - | 180 | 1 | - | - | - |
| | | | Annual | 40 | 60 | 50 | 40 | 100 | 4 | 1 | 100 | 0.5 | 6 | 20 | 5 |
| 1 | Civic Centre | | | 25.6 | 48.82 | 15.17 | 16.45 | 1.2 | 420 | 0.33 | 36.82 | - | - | - | - |
| 2 | IspatBhavan | | | 1.01 | 32.31 | 9.74 | 14.64 | 0.52 | 310 | NA | NA | - | - | - | - |
| 3 | Rail Mill | | | 23.9 | 65.65 | 27.24 | 11.62 | 1.13 | 550 | 2.01 | 47.19 | - | - | - | - |
| 4 | OP-2 | | | Under maintenance | | | | | | | | | | | |

Note: if monitoring of CO is done on 8 hourly basis, then Norm is 2000 $\mu\text{g}/\text{m}^3$. Otherwise, norm is 4000 $\mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr.

** under maintenance

*Not done regularly.

Ambient Air April 2020-Sep.2020

| AMBIENT AIR QUALITY | | | | | | | | | | | | | | | |
|----------------------------|--------------------------------|----------------------------|--|-----------------------------------|------------------------|-----------------------|-----------------------|-----------------------|-------------------|-------------|----------------------|------------|------------|------------|-----------------------------------|
| Month-June | | | | | | | | | | | | | | | |
| S No. | Location of the Station | Up wind / Down wind | Date & time of the monitoring | Parameters (as applicable) | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | |
| | | | | PM_{2.5} | PM₁₀ | SO₂ | NO₂ | NH₃ | CO | BaP* | O₃ | Pb* | As* | Ni* | C₆H₆ |
| | | Norm | 24 hrs | 60 | 100 | 80 | 80 | 400 | 4000 | - | 180 | 1 | - | - | - |
| | | | Annual | 40 | 60 | 50 | 40 | 100 | 4 | 1 | 100 | 0.5 | 6 | 20 | 5 |
| 1 | Civic Centre | | | 29.32 | 54.15 | 17.41 | 13.30 | 1.74 | 390 | NT | 19.79 | 0.021 | - | 0.007 | 0.30 |
| 2 | Ispat Bhavan | | | 21.62 | 48.45 | 10.74 | 14.90 | 0.51 | 560 | NT | NA | - | - | - | NA |
| 3 | Rail Mill | | | Under Maintenance | 62.50 | Under Maintenance | Under Maintenance | Under Maintenance | Under Maintenance | NT | 44.7 | - | - | - | 1.22 |
| 4 | OP-2 | | | 26.98 | 57.27 | Under Maintenance | Under Maintenance | Under Maintenance | Under Maintenance | NT | Under Maintenance | | | | 0.21 |

Note: if monitoring of CO is done on 8 hourly basis, then Norm is 2000 $\mu\text{g}/\text{m}^3$. Otherwise, norm is 4000 $\mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr.

** under maintenance

*Not done regularly. NT- not Traceable

Ambient Air April 2020-Sep.2020

| AMBIENT AIR QUALITY | | | | | | | | | | | | | | | |
|----------------------------|--------------------------------|----------------------------|--|-----------------------------------|------------------------|-----------------------|-----------------------|-----------------------|-------------|-------------|----------------------|------------|-------------------------|------------|-------------------------------------|
| Month-July | | | | | | | | | | | | | | | |
| S No. | Location of the Station | Up wind / Down wind | Date & time of the monitoring | Parameters (as applicable) | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | |
| | | | | PM_{2.5} | PM₁₀ | SO₂ | NO₂ | NH₃ | CO | BaP* | O₃ | Pb* | As* | Ni* | C₆H₆** |
| | | Norms | 24 hrs | 60 | 100 | 80 | 80 | 400 | 4000 | - | 180 | 1 | - | - | - |
| | | | Annual | 40 | 60 | 50 | 40 | 100 | 4 | 1 | 100 | 0.5 | 6 | 20 | 5 |
| | Unit | µg/m³ | | | | | | | | | | | ng/m³ | | |
| 1 | Civic Centre | | | 24.82 | 49.31 | 14.07 | 14.63 | 1.2 | 0.37 | 0.38 | 7.52 | 0.046 | - | 0.021 | 0.30 |
| 2 | Ispat Bhavan | | | 9.74 | 22.01 | 4.41 | 14.73 | 0.51 | 0.5 | - | - | 0.100 | - | 0.010 | NA |
| 3 | Rail Mill | | | Under Maintenance | | | | | | | | 0.058 | - | 0.016 | |
| 4 | OP-2 | | | Under Maintenance | | | | | | | | 0.110 | - | 0.013 | |

Note: if monitoring of CO is done on 8 hourly basis, then Norm is 2000 µg/m³. Otherwise, norm is 4000 µg/m³, when monitoring of CO is done for 1 hr.

* Not done regularly. NT- not Traceable

** under maintenance

Ambient Air April 2020-Sep.2020

| AMBIENT AIR QUALITY | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------------|----------------------------|--|-----------------------------------|------------------------|-----------------------|-----------------------|-----------------------|-------------|-------------|----------------------|------------|-------------------------|------------|-------------------------------------|--|
| Month-Aug | | | | | | | | | | | | | | | | |
| S No. | Location of the Station | Up wind / Down wind | Date & time of the monitoring | Parameters (as applicable) | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | |
| | | | | PM_{2.5} | PM₁₀ | SO₂ | NO₂ | NH₃ | CO | BaP* | O₃ | Pb* | As* | Ni* | C₆H₆** | |
| | | Norms | 24 hrs | 60 | 100 | 80 | 80 | 400 | 4000 | - | 180 | 1 | - | - | - | |
| | | | Annual | 40 | 60 | 50 | 40 | 100 | 4 | 1 | 100 | 0.5 | 6 | 20 | 5 | |
| | Unit | µg/m³ | | | | | | | | | | | ng/m³ | | | |
| 1 | Civic Centre | | | 23.54 | 46.50 | 12.87 | 13.12 | - | - | NT | - | 0.046 | NT | 0.021 | | |
| 2 | Ispat Bhavan | | | 6.86 | 19.21 | 3.45 | 10.00 | 2.96 | 0.48 | NT | - | 0.100 | NT | 0.010 | | |
| 3 | Rail Mill | | | Under Maintenance | | | | | | | | 0.058 | NT | 0.016 | | |
| 4 | OP-2 | | | Under Maintenance | | | | | | | | 0.110 | NT | 0.013 | | |

Note: if monitoring of CO is done on 8 hourly basis, then Norm is 2000 µg/m³. Otherwise, norm is 4000 µg/m³, when monitoring of CO is done for 1 hr.

* Not done regularly. NT- not Traceable

Ambient Air April 2020-Sep.2020

| AMBIENT AIR QUALITY | | | | | | | | | | | | | | | | |
|---------------------|-------------------------|--------------------------|-------------------------------|----------------------------|------------------|-----------------|-----------------|-----------------|------|------|----------------|------------------------|-----|-------|----------------------------------|--|
| Month-Sep | | | | | | | | | | | | | | | | |
| S No. | Location of the Station | Up wind / Down wind | Date & time of the monitoring | Parameters (as applicable) | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | |
| | | | | PM _{2.5} | PM ₁₀ | SO ₂ | NO ₂ | NH ₃ | CO | BaP* | O ₃ | Pb* | As* | Ni* | C ₆ H ₆ ** | |
| | | Norms | 24 hrs | 60 | 100 | 80 | 80 | 400 | 4000 | - | 180 | 1 | - | - | - | |
| | | | Annual | 40 | 60 | 50 | 40 | 100 | 4 | 1 | 100 | 0.5 | 6 | 20 | 5 | |
| | Unit | $\mu\text{g}/\text{m}^3$ | | | | | | | | | | ng/m^3 | | | | |
| 1 | Civic Centre | | | 23 | 47.21 | 12.28 | 12.92 | 1.06 | 430 | NT | - | 0.046 | NT | 0.021 | | |
| 2 | Ispat Bhavan | | | 18.78 | 33.65 | 9.32 | 14.7 | 0.51 | 450 | NT | - | 0.100 | NT | 0.010 | | |
| 3 | Rail Mill | | | 20.61 | 41.43 | 10.88 | 13.48 | 1.71 | 380 | NT | - | 0.058 | NT | 0.016 | | |
| 4 | OP-2 | | | 19.91 | Unde maint | 14.99 | 18.03 | 2.28 | 320 | NT | - | 0.110 | NT | 0.013 | | |

Note: if monitoring of CO is done on 8 hourly basis, then Norm is $2000 \mu\text{g}/\text{m}^3$. Otherwise, norm is $4000 \mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr.

* Not done regularly. NT- not Traceable

Bhilai Steel Plant
Water Pollution Status April 2020 to Sep. 2020

FLAG - F

Water Pollution Status

Bhilai Steel Plant
Water Pollution Status April 2020 to Sep. 2020

Water Pollution Status: Water consumption / tonne of Steel produced:
Name of the outlets and quantity discharged: Effluent discharged to: (Name of the river / drain / land etc.)
Quantity of the treatment effluent reused / recirculate and for what purpose

Month- April 2020

| Date & Time of the sample | Location of the sampling point | Type of treatment provided | Flow rate m3/Hr | Parameters monitored (mg/l, except pH) | | | | | | | | Remarks |
|-----------------------------|--------------------------------|-----------------------------------|-----------------|--|-----------------|--------|---------|-----|------|---------------|-------|----------------------------------|
| | | | | pH | TSS | Phenol | Cyanide | BOD | COD | Amm. Nitrogen | O & G | |
| Norm | | | | 6.0-8.5 | 100 (50 for BF) | 1 | 0.2 | 30 | 250 | 50 | 10 | |
| <u>COBP Effluent</u> | | | | | | | | | | | | |
| 28 Apr, 10:15:00 AM | Inlet to BOD plant | Physiochemical & Biological | 73 | 9.71 | - | 191 | 6.54 | - | 3680 | 168.0 | 12.93 | Treated water used for quenching |
| 28 Apr, 10:50:00 AM | Outlet to BOD plant | Physiochemical & Biological | - | 6.04 | 68 | 0.212 | 0.19 | 28 | 258 | 46.18 | 2.58 | Treated water used for quenching |
| 06 Apr, 09:30:00 AM | Sinter Plant-2 | Settling Tank | 1400 | 8.00 | 80 | - | - | - | - | - | 3.10 | Recycled back |
| 06 Apr, 09:45:00 AM | Steel Melting Shop-2 | Settling Tank | 1650 | 7.9 | 45 | - | - | - | - | - | 2.60 | Recycled |
| 11 Apr, 09:35:00 AM | Blast Furnace-RST | Settling Tank /Cooling Pond | 12500 | 6.83 | 64 | BDL | 0.10 | - | - | 8.50 | 2.20 | Recycled Back |
| 17 Apr, 09:00:00 AM | Mills (Rail Mill) | Settling Tank with oil separators | - | 7.54 | 49 | - | - | - | - | - | 2.32 | Recycled Back |
| 26 Mar, 09:15:00 AM | Mills (Rail Mill) | Settling Tank with oil separators | - | 7.59 | 53 | - | - | - | - | - | 2.47 | Recycled Back |
| 25 Apr, 09:00:00 AM | Plate Mill | Settling Tank with oil separators | 16000 | 7.30 | 32 | - | - | - | - | - | 1.76 | Recycled Back |

Bhilai Steel Plant
Water Pollution Status April 2020 to Sep. 2020

Water Pollution Status: Water consumption / tonne of Steel produced:
Name of the outlets and quantity discharged: Effluent discharged to: (Name of the river / drain / land etc.)
Quantity of the treatment effluent reused / recirculate and for what purpose

Month- May2020

| Date & Time of the sample | Location of the sampling point | Type of treatment provided | Flow rate m3/Hr | Parameters monitored (mg/l, except pH) | | | | | | | | Remarks |
|-----------------------------|--------------------------------|-----------------------------------|-----------------|--|-----------------|--------|---------|-----|------|---------------|-------|----------------------------------|
| | | | | pH | TSS | Phenol | Cyanide | BOD | COD | Amm. Nitrogen | O & G | |
| Norm | | | | 6.0-8.5 | 100 (50 for BF) | 1 | 0.2 | 30 | 250 | 50 | 10 | |
| <u>COBP Effluent</u> | | | | | | | | | | | | |
| 19 May, 08:55:00 AM | Inlet to BOD plant | Physiochemical & Biological | 64 | 9.29 | - | 206 | 5.00 | - | 1920 | 157.8 | 12.56 | Treated water used for quenching |
| 19 May, 09:08:00 AM | Outlet to BOD plant | Physiochemical & Biological | - | 6.61 | 120 | 0.239 | 0.18 | 28 | 280 | 66.25 | 2.29 | Treated water used for quenching |
| 08 May, 09:10:00 AM | Sinter Plant-2 | Settling Tank | 1400 | 7.89 | 26 | - | - | - | - | - | 1.36 | Recycled back |
| 08 May, 09:20:00 AM | Steel Melting Shop-2 | Settling Tank | 1650 | 10.38 | 31 | - | - | - | - | - | 2.08 | Recycled |
| 15 May, 09:15:00 AM | Blast Furnace-RST | Settling Tank /Cooling Pond | 12500 | 6.68 | 53 | BDL | 0.16 | - | - | 8.80 | 2.48 | Recycled Back |
| 18 May, 09:10:00 AM | Mills (Rail Mill) | Settling Tank with oil separators | - | 7.73 | 37 | - | - | - | - | - | 2.92 | Recycled Back |
| 16 May, 09:40:00 AM | Plate Mill | Settling Tank with oil separators | 16000 | 7.58 | 38 | - | - | - | - | - | 2.20 | Recycled Back |

Bhilai Steel Plant
Water Pollution Status April 2020 to Sep. 2020

Water Pollution Status: Water consumption / tonne of Steel produced:
Name of the outlets and quantity discharged: Effluent discharged to: (Name of the river / drain / land etc.)
Quantity of the treatment effluent reused / recirculate and for what purpose

Month- Jun 2020

| Date & Time of the sample | Location of the sampling point | Type of treatment provided | Flow rate m3/Hr | Parameters monitored (mg/l, except pH) | | | | | | | | Remarks |
|-----------------------------|--------------------------------|-----------------------------------|-----------------|--|-----------------|--------|---------|-----|------|---------------|-------|----------------------------------|
| | | | | pH | TSS | Phenol | Cyanide | BOD | COD | Amm. Nitrogen | O & G | |
| Norm | | | | 6.0-8.5 | 100 (50 for BF) | 1 | 0.2 | 30 | 250 | 50 | 10 | |
| <u>COBP Effluent</u> | | | | | | | | | | | | |
| 10 Jun, 08:40:00 AM | Inlet to BOD plant | Physiochemical & Biological | 65 | 9.29 | - | 300 | 9.30 | - | 2200 | 157.8 | 10.34 | Treated water used for quenching |
| 10 Jun, 08:25:00 AM | Outlet to BOD plant | Physiochemical & Biological | - | 6.94 | 93 | 0.258 | 0.19 | 19 | 235 | 48.3 | 2.29 | Treated water used for quenching |
| 05 Jun, 08:55:00 AM | Sinter Plant-2 | Settling Tank | 1400 | 8.39 | 70 | - | - | - | - | - | 2.50 | Recycled back |
| 05 Jun, 09:15:00 AM | Steel Melting Shop-2 | Settling Tank | 1650 | 8.3 | 75 | - | - | - | - | - | 3.00 | Recycled |
| 18 Jun, 08:50:00 AM | Blast Furnace-RST | Settling Tank /Cooling Pond | 12500 | 6.18 | 42.00 | BDL | 0.17 | - | - | 39.00 | 2.13 | Recycled Back |
| 11 Jun, 09:00:00 AM | Mills (Rail Mill) | Settling Tank with oil separators | - | 8.36 | 29 | - | - | - | - | - | 2.14 | Recycled Back |
| 27 Jun, 10:30:00 AM | Plate Mill | Settling Tank with oil separators | 16000 | 7.71 | 45 | - | - | - | - | - | 2.46 | Recycled Back |

Bhilai Steel Plant
Water Pollution Status April 2020 to Sep. 2020

Water Pollution Status: Water consumption / tonne of Steel produced:
Name of the outlets and quantity discharged: Effluent discharged to: (Name of the river / drain / land etc.)
Quantity of the treatment effluent reused / recirculate and for what purpose

Month- Jul 2020

| Date & Time of the sample | Location of the sampling point | Type of treatment provided | Flow rate m ³ /Hr | Parameters monitored (mg/l, except pH) | | | | | | | | Remarks |
|-----------------------------|--------------------------------|-----------------------------------|------------------------------|--|-----------------|--------|---------|-----|------|---------------|-------|----------------------------------|
| | | | | pH | TSS | Phenol | Cyanide | BOD | COD | Amm. Nitrogen | O & G | |
| Norm | | | | 6.0-8.5 | 100 (50 for BF) | 1 | 0.2 | 30 | 250 | 50 | 10 | |
| <u>COBP Effluent</u> | | | | | | | | | | | | |
| 15 Jul, 08:00:00 AM | Inlet to BOD plant | Physiochemical & Biological | 88 | 9.48 | - | 205 | 11.30 | - | 4200 | 737.5 | 9.70 | Treated water used for quenching |
| 15 Jul, 08:25:00 AM | Outlet to BOD plant | Physiochemical & Biological | - | 7.38 | 85.5 | 0.148 | 0.19 | 18 | 235 | 47.4 | 2.25 | Treated water used for quenching |
| 03 Jul, 09:00:00 AM | Sinter Plant-2 | Settling Tank | 1400 | 8.32 | 85 | - | - | - | - | - | 1.15 | Recycled back |
| 03 Jul, 09:15:00 AM | Steel Melting Shop-2 | Settling Tank | 1650 | 8.4 | 35 | - | - | - | - | - | 1.08 | Recycled |
| 02 Jul, 09:00:00 AM | Blast Furnace-RST | Settling Tank /Cooling Pond | 12500 | 6.72 | 48 | BDL | 0.19 | - | - | 25.20 | 1.50 | Recycled Back |
| 08 Jul, 08:20:00 AM | Mills (Rail Mill) | Settling Tank with oil separators | - | 7.15 | 52 | - | - | - | - | - | 2.15 | Recycled Back |
| 16 Jul, 09:30:00 AM | Plate Mill | Settling Tank with oil separators | 16000 | 7.72 | 33 | - | - | - | - | - | 1.97 | Recycled Back |

Bhilai Steel Plant
Water Pollution Status April 2020 to Sep. 2020

Water Pollution Status: Water consumption / tonne of Steel produced:
Name of the outlets and quantity discharged: Effluent discharged to: (Name of the river / drain / land etc.)
Quantity of the treatment effluent reused / recirculate and for what purpose

Month- Aug 2020

| Date & Time of the sample | Location of the sampling point | Type of treatment provided | Flow rate m ³ /Hr | Parameters monitored (mg/l, except pH) | | | | | | | | Remarks |
|-----------------------------|--------------------------------|-----------------------------------|------------------------------|--|-----------------|--------|---------|-----|------|---------------|-------|----------------------------------|
| | | | | pH | TSS | Phenol | Cyanide | BOD | COD | Amm. Nitrogen | O & G | |
| Norm | | | | 6.0-8.5 | 100 (50 for BF) | 1 | 0.2 | 30 | 250 | 50 | 10 | |
| <u>COBP Effluent</u> | | | | | | | | | | | | |
| 26 Aug, 09:00:00 AM | Inlet to BOD plant | Physiochemical & Biological | 90 | 9.56 | - | 238 | 10.80 | - | 5200 | 755.0 | 14.10 | Treated water used for quenching |
| 26 Aug, 09:10:00 AM | Outlet to BOD plant | Physiochemical & Biological | - | 7.59 | 87 | 0.195 | 0.18 | 19 | 245 | 48.5 | 2.45 | Treated water used for quenching |
| 07 Aug, 09:00:00 AM | Sinter Plant-2 | Settling Tank | 1400 | 8.3 | 70 | - | - | - | - | - | 1.23 | Recycled back |
| 07 Aug, 09:10:00 AM | Steel Melting Shop-2 | Settling Tank | 1650 | 8.1 | 55 | - | - | - | - | - | 1.11 | Recycled |
| 06 Aug, 09:00:00 AM | Blast Furnace-RST | Settling Tank /Cooling Pond | 12500 | 6.09 | 49 | BDL | 0.20 | - | - | 33.50 | 1.46 | Recycled Back |
| 08 Aug, 09:00:00 AM | Mills (Rail Mill) | Settling Tank with oil separators | - | 7.64 | 43 | - | - | - | - | - | 2.16 | Recycled Back |
| 13 Aug, 09:00:00 AM | Plate Mill | Settling Tank with oil separators | 16000 | 7.65 | 35 | - | - | - | - | - | 2.21 | Recycled Back |

Bhilai Steel Plant
Water Pollution Status April 2020 to Sep. 2020

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Noise Pollution Control Status

Bhilai Steel Plant Noise Pollution Status April 2020 to Sep. 2020

Noise Pollution Control Status
Month-April 2020

| 1. Noise Monitoring in Work Zone | | | | | | |
|--|---------------------------|---------------------------------|---|------------------------------|--|----------------|
| Location | Date of Monitoring | Distance from the source | Name of control equipment provided | Noise Level Leq dB(A) | Duration of the monitoring (time) | Remarks |
| Oxygen plant-2 (Control Room) | 25-Apr | 5 m | Air tight control Room | 64.0 | 2 Minute | |
| Blast Furnace-1(Control Room) | 03-Apr | 5 m | Acoustic Room | 68.3 | 2 Minute | |
| Mills (Rolling / forgoing) Rail Mill | 30-Apr | 5 m | Acoustic pulpit | 69.2 | 2 Minute | |
| TPP/ CPP (Turbines-3) (Control Room) | 18-Apr | 5 m | Acoustic cabins | 65.6 | 2 Minute | |
| SP-2, (M/c-4) Operator's room | 14-Apr | 5 m | Acoustic Room | 66.4 | 2 Minute | |
| Coke-oven area (Batt.-1) (Control Room) | 09-Apr | 5 m | Air Tight control Room | 67.6 | 2 Minute | |
| Others | | | | | | |
| * Noise level map of the plant may be attached along with the report | | | | | | |

2. Ambient Noise Monitoring

| Noise Zone | Noise Level | | |
|---|--------------------|-----------------|-------------------|
| | Standard | Day Time | Night time |
| Industrial Area (at boundary of plant) | | | |
| Near OP-2 | 75 | 59.3 | 57.8 |
| Near Joratarai Gate | 75 | 60.3 | 59.5 |
| Near Main Gate | 75 | 61.3 | 59.4 |
| Near Khursipar Gate | 75 | 65.6 | 63.7 |

Noise monitoring done as per requirement of Townships in the following areas: Commercial Area, Residential Area, Silence Area. Last monitoring done in the month of March 2020

Bhilai Steel Plant Noise Pollution Status April 2020 to Sep. 2020

| Noise Pollution Control Status | | | | | | |
|--|---------------------------|---------------------------------|---|------------------------------|--|----------------|
| Month-May 2020 | | | | | | |
| 1. Noise Monitoring in Work Zone | | | | | | |
| Location | Date of Monitoring | Distance from the source | Name of control equipment provided | Noise Level Leq dB(A) | Duration of the monitoring (time) | Remarks |
| Oxygen plant-2 (Control Room) | 30-May-20 | 1 m | Air tight control Room | 65.4 | 3 Minute | |
| Blast Furnace-7(Control Room) | 30-May-20 | 1 m | Acoustic Room | 66.2 | 3 Minute | |
| Mills (Rolling / forgoing) Rail Mill | 30-May-20 | 1 m | Acoustic pulpit | 69.9 | 3 Minute | |
| TPP/CPP (Turbines-4) (Control Room) | 11-May-20 | 1 m | Acoustic cabins | 66.2 | 3 Minute | |
| SP-2, (M/c-4) Operator's room | 05-May-20 | 1 m | Acoustic Room | 64.8 | 3 Minute | |
| Coke-oven area (Batt.-9) (Control Room) | 02-May-20 | 1 m | Air Tight control Room | 67.5 | 3 Minute | |
| Others | | | | | | |
| * Noise level map of the plant may be attached along with the report | | | | | | |

2. Ambient Noise Monitoring

| Noise Zone | Noise Level Unit: dB (A) | | |
|---|--------------------------|----------|------------|
| | Standard | Day Time | Night time |
| Industrial Area (at boundary of plant) | | | |
| Near OP-2 | 75 | 59.3 | 57.8 |
| Near Joratarai Gate | 75 | 60.3 | 59.5 |
| Near Main Gate | 75 | 61.3 | 59.4 |
| Near Khursipar Gate | 75 | 65.6 | 63.7 |

Noise monitoring done as per requirement of Townships in the following areas: Commercial Area, Residential Area, Silence Area. Last monitoring done in the month of March 2020

Bhilai Steel Plant Noise Pollution Status April 2020 to Sep. 2020

Noise Pollution Control Status
Month-June 2020

| 1. Noise Monitoring in Work Zone | | | | | | |
|--|---------------------------|---------------------------------|---|------------------------------|--|----------------|
| Location | Date of Monitoring | Distance from the source | Name of control equipment provided | Noise Level Leq dB(A) | Duration of the monitoring (time) | Remarks |
| Oxygen plant-2 (Control Room) | 27-Jun | 5 m | Air tight control Room | 66.2 | 2 Minute | |
| Blast Furnace-1(Control Room) | 18-Jun | 5 m | Acoustic Room | 67.3 | 2 Minute | |
| Mills (Rolling / forgoing) Rail Mill | 27-Jun | 5 m | Acoustic pulpit | 74.2 | 2 Minute | |
| TPP/ CPP (Turbines-4) (Control Room) | 08-Jun | 5 m | Acoustic cabins | 65.8 | 2 Minute | |
| SP-2, (M/c-1 & 2) Operator's room | 09-Jun | 5 m | Acoustic Room | 66.3 | 2 Minute | |
| Coke-oven area (Batt.-9) (Control Room) | 02-Jun | 5 m | Air Tight control Room | 66.2 | 2 Minute | |
| Others | | | | | | |
| * Noise level map of the plant may be attached along with the report | | | | | | |

2. Ambient Noise Monitoring

(Noise monitoring is not done in this month as desired by Township Deptt. done only once in a quarter Last monitoring done in the month of June 2020)

| Noise Zone | Noise Level | | Unit: dB (A) |
|--|-------------------|----------|--------------|
| | Standard | Day Time | Night time |
| Industrial Area (at boundary of plant) | | | |
| Near OP-2 | 75 | 53.5 | 50.6 |
| Near Joratarai Gate | 75 | 54.1 | 52.7 |
| Near Main Gate | 75 | 62.4 | 59.5 |
| Near Khursipar Gate | 75 | 67.1 | 64.9 |
| Commercial Area | | | |
| Sector-05 (Market area) | 65 Day & 55 Night | 46.4 | 50.0 |
| Sector-06 (Near 'B' Market) | 65 Day & 55 Night | 43.4 | 48.0 |
| Sector-09 (Goal Market) | 65 Day & 55 Night | 47.0 | 49.0 |
| Maroda Sector (BSP Market) | 65 Day & 55 Night | 56.5 | 43.8 |
| Risali Sector (BSP Market) | 65 Day & 55 Night | 62.3 | 53.6 |
| Residential Area | | | |
| Sector-01 (Street No. - 23) | 55 Day & 45 Night | 48.2 | 41.2 |
| Sector-05 (Street No. - 32) | 55 Day & 45 Night | 44.0 | 42.0 |
| Sector-07 (Street No. - 17) | 55 Day & 45 Night | 48.2 | 40.0 |
| Sector-08 (Street No. - 05) | 55 Day & 45 Night | 49.7 | 43.5 |
| Sector-10 (Street No. - 25) | 55 Day & 45 Night | 46.9 | 43.2 |
| Silence Area | | | |
| Sector-02 (English Medium Middle School) | 50 Day & 40 Night | 42.3 | 34.0 |
| Sector-05 (Girls Higher Secondary School) | 50 Day & 40 Night | 43.0 | 32.0 |
| Sector-07 (English Medium Middle School) | 50 Day & 40 Night | 44.8 | 36.9 |
| Risali Sector (Aadarsh Hindi Medium Middle School) | 50 Day & 40 Night | 46.2 | 35.6 |
| Maroda Sector (Estate Court) | 50 Day & 40 Night | 48.4 | 38.7 |

Noise Pollution Control Status
Month-July 2020

| 1. Noise Monitoring in Work Zone | | | | | | |
|--|---------------------------|---------------------------------|---|------------------------------|--|----------------|
| Location | Date of Monitoring | Distance from the source | Name of control equipment provided | Noise Level Leq dB(A) | Duration of the monitoring (time) | Remarks |
| Oxygen plant-2 (Control Room) | 31-Jul | 5 m | Air tight control Room | 63.7 | 2 Minute | |
| Blast Furnace-7(Control Room) | 17-Jul | 5 m | Acoustic Room | 64.0 | 2 Minute | |
| Mills (Rolling / forgoing) Rail Mill | 22-Jul | 5 m | Acoustic pulpit | 83.6 | 2 Minute | |
| TPP/CPP (Turbines-3) (Control Room) | 08-Jul | 5 m | Acoustic cabins | 67.7 | 2 Minute | |
| Blast Furnace-7(Control Room) | 17-Jul | 5 m | Acoustic Room | 64.0 | 2 Minute | |
| SP-2, (M/c-4) Operator's room | 14-Jul | 5 m | Acoustic Room | 65.9 | 2 Minute | |
| Coke-oven area (Batt.-1) (Control Room) | 03-Jul | 5 m | Air Tight control Room | 67.6 | 2 Minute | |
| Others | | | | | | |
| * Noise level map of the plant may be attached along with the report | | | | | | |

2. Ambient Noise Monitoring

(Noise monitoring is not done in this month as desired by Township Deptt. done only once in a quarter Last monitoring done in the month of June 2020)

| Noise Zone | Noise Level | | Unit: dB (A) |
|--|-------------------|----------|--------------|
| | Standard | Day Time | Night time |
| Industrial Area (at boundary of plant) | | | |
| Near OP-2 | 75 | 53.5 | 50.6 |
| Near Joratarai Gate | 75 | 54.1 | 52.7 |
| Near Main Gate | 75 | 62.4 | 59.5 |
| Near Khursipar Gate | 75 | 67.1 | 64.9 |
| Commercial Area | | | |
| Sector-05 (Market area) | 65 Day & 55 Night | 46.4 | 50.0 |
| Sector-06 (Near 'B' Market) | 65 Day & 55 Night | 43.4 | 48.0 |
| Sector-09 (Goal Market) | 65 Day & 55 Night | 47.0 | 49.0 |
| Maroda Sector (BSP Market) | 65 Day & 55 Night | 56.5 | 43.8 |
| Risali Sector (BSP Market) | 65 Day & 55 Night | 62.3 | 53.6 |
| Residential Area | | | |
| Sector-01 (Street No. - 23) | 55 Day & 45 Night | 48.2 | 41.2 |
| Sector-05 (Street No. - 32) | 55 Day & 45 Night | 44.0 | 42.0 |
| Sector-07 (Street No. - 17) | 55 Day & 45 Night | 48.2 | 40.0 |
| Sector-08 (Street No. - 05) | 55 Day & 45 Night | 49.7 | 43.5 |
| Sector-10 (Street No. - 25) | 55 Day & 45 Night | 46.9 | 43.2 |
| Silence Area | | | |
| Sector-02 (English Medium Middle School) | 50 Day & 40 Night | 42.3 | 34.0 |
| Sector-05 (Girls Higher Secondary School) | 50 Day & 40 Night | 43.0 | 32.0 |
| Sector-07 (English Medium Middle School) | 50 Day & 40 Night | 44.8 | 36.9 |
| Risali Sector (Aadarsh Hindi Medium Middle School) | 50 Day & 40 Night | 46.2 | 35.6 |
| Maroda Sector (Estate Court) | 50 Day & 40 Night | 48.4 | 38.7 |

Noise Pollution Control Status
Month-Aug 2020

| 1. Noise Monitoring in Work Zone | | | | | | |
|--|---------------------------|---------------------------------|---|------------------------------|--|----------------|
| Location | Date of Monitoring | Distance from the source | Name of control equipment provided | Noise Level Leq dB(A) | Duration of the monitoring (time) | Remarks |
| Oxygen plant-2 (Control Room) | 26-Aug | 5 m | Air tight control Room | 71.2 | 2 Minute | |
| Blast Furnace-7(Control Room) | 25-Aug | 5 m | Acoustic Room | 66.0 | 2 Minute | |
| Mills (Rolling / forgoing) Rail Mill | 15-Aug | 5 m | Acoustic pulpit | 81.6 | 2 Minute | |
| TPP/CPP (Turbines-4) (Control Room) | 10-Aug | 5 m | Acoustic cabins | 68.0 | 2 Minute | |
| SP-2, (M/c-3) Operator's room | 07-Aug | 5 m | Acoustic Room | 66.4 | 2 Minute | |
| Coke-oven area (Batt.-9) (Control Room) | 04-Aug | 5 m | Air Tight control Room | 68.3 | 2 Minute | |
| Others | | | | | | |
| * Noise level map of the plant may be attached along with the report | | | | | | |
| | | | | | | |

2. Ambient Noise Monitoring

(Noise monitoring is not done in this month as desired by Township Deptt. done only once in a quarter Last monitoring done in the month of June 2020)

| Noise Zone | Noise Level | | |
|--|-------------------|----------|------------|
| | Standard | Day Time | Night time |
| Unit: dB (A) | | | |
| Industrial Area (at boundary of plant) | | | |
| Near OP-2 | 75 | 53.5 | 50.6 |
| Near Joratarai Gate | 75 | 54.1 | 52.7 |
| Near Main Gate | 75 | 62.4 | 59.5 |
| Near Khursipar Gate | 75 | 67.1 | 64.9 |
| Commercial Area | | | |
| Sector-05 (Market area) | 65 Day & 55 Night | 46.4 | 50.0 |
| Sector-06 (Near 'B' Market) | 65 Day & 55 Night | 43.4 | 48.0 |
| Sector-09 (Goal Market) | 65 Day & 55 Night | 47.0 | 49.0 |
| Maroda Sector (BSP Market) | 65 Day & 55 Night | 56.5 | 43.8 |
| Risali Sector (BSP Market) | 65 Day & 55 Night | 62.3 | 53.6 |
| Residential Area | | | |
| Sector-01 (Street No. - 23) | 55 Day & 45 Night | 48.2 | 41.2 |
| Sector-05 (Street No. - 32) | 55 Day & 45 Night | 44.0 | 42.0 |
| Sector-07 (Street No. - 17) | 55 Day & 45 Night | 48.2 | 40.0 |
| Sector-08 (Street No. - 05) | 55 Day & 45 Night | 49.7 | 43.5 |
| Sector-10 (Street No. - 25) | 55 Day & 45 Night | 46.9 | 43.2 |
| Silence Area | | | |
| Sector-02 (English Medium Middle School) | 50 Day & 40 Night | 42.3 | 34.0 |
| Sector-05 (Girls Higher Secondary School) | 50 Day & 40 Night | 43.0 | 32.0 |
| Sector-07 (English Medium Middle School) | 50 Day & 40 Night | 44.8 | 36.9 |
| Risali Sector (Aadarsh Hindi Medium Middle School) | 50 Day & 40 Night | 46.2 | 35.6 |
| Maroda Sector (Estate Court) | 50 Day & 40 Night | 48.4 | 38.7 |

| <u>Noise Pollution Control Status</u> | | | | | | | |
|--|---------------------------|---------------------------------|---|------------------------------|--|----------------|--|
| Month-Sep 2020 | | | | | | | |
| 1. Noise Monitoring in Work Zone | | | | | | | |
| Location | Date of Monitoring | Distance from the source | Name of control equipment provided | Noise Level Leq dB(A) | Duration of the monitoring (time) | Remarks | |
| Oxygen plant-2 (Control Room) | 28-Sep | 5 m | Air tight control Room | 69.8 | 2 Minute | | |
| Blast Furnace-7(Control Room) | 19-Sep | 5 m | Acoustic Room | 67.9 | 2 Minute | | |
| Mills (Rolling / forgoing) Rail Mill | 29-Sep | 5 m | Acoustic pulpit | 84.8 | 2 Minute | | |
| TPP/CPP (Turbines-3) (Control Room) | 08-Sep | 5 m | Acoustic cabins | 67.8 | 2 Minute | | |
| SP-2, (M/c-2) Operator's room | 07-Sep | 5 m | Acoustic Room | 66.9 | 2 Minute | | |
| Coke-oven area (Batt.-1) (Control Room) | 03-Sep | 5 m | Air Tight control Room | 67.9 | 2 Minute | | |
| Others | | | | | | | |
| * Noise level map of the plant may be attached along with the report | | | | | | | |

2. Ambient Noise Monitoring

(Noise monitoring is not done in this month as desired by Township Deptt. done only once in a quarter Last monitoring done in the month of June 2020)

| Noise Zone | Noise Level | | |
|--|-------------------|----------|------------|
| | Standard | Day Time | Night time |
| Unit: dB (A) | | | |
| Industrial Area (at boundary of plant) | | | |
| Near OP-2 | 75 | 53.5 | 50.6 |
| Near Joratarai Gate | 75 | 54.1 | 52.7 |
| Near Main Gate | 75 | 62.4 | 59.5 |
| Near Khursipar Gate | 75 | 67.1 | 64.9 |
| Commercial Area | | | |
| Sector-05 (Market area) | 65 Day & 55 Night | 46.4 | 50.0 |
| Sector-06 (Near 'B' Market) | 65 Day & 55 Night | 43.4 | 48.0 |
| Sector-09 (Goal Market) | 65 Day & 55 Night | 47.0 | 49.0 |
| Maroda Sector (BSP Market) | 65 Day & 55 Night | 56.5 | 43.8 |
| Risali Sector (BSP Market) | 65 Day & 55 Night | 62.3 | 53.6 |
| Residential Area | | | |
| Sector-01 (Street No. - 23) | 55 Day & 45 Night | 48.2 | 41.2 |
| Sector-05 (Street No. - 32) | 55 Day & 45 Night | 44.0 | 42.0 |
| Sector-07 (Street No. - 17) | 55 Day & 45 Night | 48.2 | 40.0 |
| Sector-08 (Street No. - 05) | 55 Day & 45 Night | 49.7 | 43.5 |
| Sector-10 (Street No. - 25) | 55 Day & 45 Night | 46.9 | 43.2 |
| Silence Area | | | |
| Sector-02 (English Medium Middle School) | 50 Day & 40 Night | 42.3 | 34.0 |
| Sector-05 (Girls Higher Secondary School) | 50 Day & 40 Night | 43.0 | 32.0 |
| Sector-07 (English Medium Middle School) | 50 Day & 40 Night | 44.8 | 36.9 |
| Risali Sector (Aadarsh Hindi Medium Middle School) | 50 Day & 40 Night | 46.2 | 35.6 |
| Maroda Sector (Estate Court) | 50 Day & 40 Night | 48.4 | 38.7 |

Bhilai Steel Plant Noise Pollution Status April 2020 to Sep. 2020