



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
कोलियरीज डिवीज़न, चासनाला
COLLIERIES DIVISION, CHASNALLA

Ref: GM/TASRA/18/56

Date:- 31.05.2018

To,
The Additional Director(s),
EI Division,
Ministry of Environment, Forest and Climate Change,
Paryavaran Bhawan, CGO Complex, Lodhi Road,
New Delhi - 110003

Sub: Six Monthly Status of Compliance to the Conditions stipulated in the EC granted by MoEF and Climate Change of Pit Head Coking Coal Washery of 3.5 MTPA (EC granted vide letter no. J-11015/365/2009-IA.II(M) pt dated 30th March 2017) for the period ending 31st March 2018.


Dear Sir,

Please find enclosed herewith the updated six monthly compliance report for the period ending 31st March 2018 with respect to the conditions stipulated in the Environmental Clearance granted by Ministry of Environment, Forest and Climate Change, New Delhi vide letter no. J-11015/365/2009-IA.II(M) pt dated 30th March 2017 for the Pit Head Coking Coal Washery of 3.5 MTPA of M/s Steel Authority of India Limited for your kind perusal.

Hard Copy and Soft Copy of the report is enclosed.

Thanking you,

Yours faithfully


(A.K. Rai)
GM (Tasra)

Encl: As above.

Cc:

- | | |
|--|---|
| 1. The Additional Director(s)
Ministry of Environment Forest and Climate Change
Regional Office,
Bunglow No. A-2, Shyamali Colony,
Doranda - 834002 , Ranchi (Jharkhand) | 4. J.S.P.C.B
Regional Office,
Dhanbad (Jharkhand) |
| 2. The Member Secretary
Central Pollution Control Board,
Parivesh Bhawan, CBD-cum-Office Complex,
East Arjun Nagar, Delhi - 110032 | |
| 3. The Member Secretary
Jharkhand State Pollution Control Board,
H.E.C. Dhurwa , Ranchi - 834004 (Jharkhand) | |

Ref:

Date:-

Collieries Division, Chasnalla, Dhanbad, Jharkhand-828135, Telephone: +91-326-2385-001, 2385-002; Fax: +91-2385-003, email: gmchasnalla@gmail.com, website: www.sail.co
कोलियरीज डिवीज़न, चासनाला, धनबाद, झारखण्ड-828135, दूरभाष: +91-326-2385-001, 2385-002; फैक्स: +91-2385-003, ईमेल: gmchasnalla@gmail.com, वेबसाइट: www.sail.co

हर किसी की ज़िन्दगी से जुड़ा हुआ है सेल

There's a little bit of SAIL in everybody's life

**Status of Compliance to the Condition stipulated in the Environmental Clearance granted by MoEF for
Pit Head Coking Coal Washery (3.5 MTPA) for the period of October-2017 to March-2018
(EC granted vide Reference No. J-11015/365/2009-IA.II(M) pt. dated 30th March, 2017**

A. Specific Conditions:-

Condt. No.	Conditions Imposed	Status on March 2018
1	The Technology for washery shall be as per the project report submitted and presented to the Expert Appraisal Committee.	We will follow the desired technology for washery as per the project report submitted to EAC, MOEF&CC.
2	The Technology so chosen for the washery should confirm to 'Zero Liquid Discharge'.	The technology for washery confirms the concept of 'Zero Liquid Discharge' and will also follow the same technology.
3	Long Distance Belt Conveyor (LDBC) system for transportation of raw coal from Tasra Coal Pit to the proposed washery covering a length of 2 Km with water sprinkling arrangement at all transfer points, shall be installed	Transportation of Raw Coal from proposed Coal Handling Plant (CHP) will be done through Long Distance Belt Conveyor (LDBC) system, covering a length of 2 Km with water sprinkling arrangements installed at all transfer points. The raw coal from the Tasra Pit will be moved through Haul Road upto CHP as per EIA of Tasra Coal Mine, and then from there it will be moved to proposed washery through LDBC as per EIA of Pit Head Coking Coal Washery. The same has been communicated to MoEF and Climate Change for modification as per our letter no. GM/TASRA/41 dated 20.05.2017. (Attached as Annexure – 1)
4	Thick green belt of 35-45 m width to be provided around the washery to mitigate/check the dust pollution. A 3-tire avenue plantation should also be developed along vacant areas, storage yards, loading/transfer points, and also along internal roads/main approach roads.	As specified, we will develop the 3-tire plantation as per CPCB guidelines along the vacant areas, storage yards, loading/transfer points and also along internal/main approach roads.
5	Transport of washed coals and middlings shall be ensured by rail with wagon loading through silo.	As specified, the two product of the proposed washery i.e. Washed Coal (Clean Coal) and the Secondary Product will be transported by rail with wagon loading through Silo.

6	Disposal of washery rejects shall be in accordance with the extant policy and guidelines, and environment friendly.	According to the technology of the proposed washery only two products will be generated i.e. Clean Coal and Secondary Product. No rejects will be generated during the operation.
7	Waste Water shall be effectively treated and recycled completely, either for washery or maintenance of green belt around the plant.	The generated waste water will be effectively treated and recycled completely for reuse in washery operation through establishment of ETP and treated water will be used for maintenance of green belt around the plant.
8	The assurances given during the Public Hearing and as per the Action Plan formulated by the project proponent should be implemented.	The assurances given during the Public Hearing is being implemented in phased manner as per the Action Plan formulated.
9	Hoppers of the coal crushing unit and washery shall be fitted with high efficiency bag filters or mist spray water sprinkling system and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.	Hoppers of the coal crushing unit and washery will be fitted with high efficiency bag filters or mist spray water sprinkling system and will operate effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.
10	All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with mechanical sweepers.	All approach roads will be black topped and internal roads will be concreted. The roads will be regularly cleaned with mechanical sweepers.
11	Records of quantum and ash content of raw coal being washed, and clean coal and coal rejects produced from every batch of washing shall be maintained and details thereof be made available to Ministry whenever directed.	All the records will be maintained properly and will be made available to Ministry whenever directed.
12	No groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse of treated effluent and from rainwater harvesting measures.	No ground water will be used for the Plant Operation. The treated mine water from Tasra OCP will be used as the major water source for plant operation. Any additional water requirement will be obtained by recycle/reuse of treated effluent and from rainwater harvesting measures. Surplus (if any) Mining water from

		Chasnalla Colliery will also be diverted for use in proposed Washery.
13	Socio-economic and welfare measures for the local communities for the adjoining villages shall be implemented under CSR. Activities under CSR activities to be undertaken for the adjoining villages shall be identified in consultation with the local authorities, the details of status of implementation of CSR and expenditure there on which should be annually updated on the company website.	Noted.
14	Heavy metal content in raw coal, and washed coal shall be analyzed once in a year and records maintained thereof.	We will abide by the said condition.

B. General Conditions:-

Condt. No.	Conditions Imposed	Status on March 2018
1	No change in technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests and Climate Change.	We will abide by the said condition and there will be no change in the technology and scope of working. If any the same will be intimated to your good office.
2	Data on ambient air quality (PM10, PM 25, SO2 and NOX) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to Regional Office of the Ministry and to the State Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report once in a year.	We are carrying out the AAQ monitoring as per the schedule and said data is being submitted to your good office on six monthly basis. Monitoring data for the period of October 2017 to March 2018 is attached as Annexure – 2 .
3	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in noisy areas like crushers, pumps, conveyors, bath, cyclones etc shall be provided with ear plugs/muffs.	Noise level will be maintained below 85 dBA and workers engaged in noisy areas like crushers, pumps, conveyors, bath, cyclones etc. will be provided with ear plugs/muffs.
4	Industrial waste water shall be properly collected and treated in sedimentation ponds and treated water shall be recycled in washing circuit and other usages. No effluent shall be discharge to surface water bodies.	The waste water will be effectively treated and recycled completely for reuse in washery. Operation and maintenance of green belt around the plant. No effluent will be discharge to

		surface water bodies.
5	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Vehicular emissions will be kept under control and regularly monitored. Vehicles used for transporting the mineral will be covered with tarpaulins and optimally loaded.
6	Monitoring of effluent quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EPA Rules, 1986.	Presently the project is not in operation, however when operation gets started, Monitoring of effluent quality parameters will be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EPA Rules, 1986.
7	Personnel (Departmental, Outsourced and casual if any) working in dusty areas shall wear Protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Personnel working in dusty areas will be provided with protective respiratory devices and adequate training and information on safety and health aspects will be imparted to them.
8	Occupational Health Surveillance Programme of all workers (Departmental, Outsourced and casual if any) shall be undertaken periodically to observe any ill effect due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	The project is carrying out the occupational health surveillance program of the employees engaged in the mines. The same practice is proposed to be followed in the Coal Washery, when it come under operation.
9	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.	Separate Environmental Management Department has been set up and headed by Asst. General Manager, who reports directly to the Head of the Mine. In addition to this, SAIL is having a separate Corporate Environment Management Division (EMD) at Kolkata under the control of Executive Director, who facilitates in environmental management of all SAIL units.



10	The funds earmarked for environmental protection measures shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	We are abiding the said condition.
11	The project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the Ministry of Environment, Forests & Climate Change at http://envfor.nic.in .	Already Complied
12	A copy of the environmental clearance letter shall be marked to concern Panchayat/ Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.	Already Complied
13	An Electronic copy of the environmental clearance letter shall be forwarded to State Pollution Control Board, Regional Office of the Ministry, District Industry Sector and Collector's Office/Tehsildar's Office for its display in public domain for 30 days.	Already Complied
14	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM10, PM25, SO2 and NO (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises.	Noted
15	The project proponent shall submit six monthly	We are abiding the said condition.

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	compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry and the SPCB.	
16	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	We will extend all our cooperation during any such inspections by the Authority.
17	The environmental statement for each financial year ending 31 March in Form —V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.	Noted.





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STEEL AUTHORITY OF INDIA LIMITED
 कोलियरीज डिवीज़न, चासनाला
COLLIERIES DIVISION, CHASNALLA

Ref.No. *Gm/TASRA/41*

Date: *24/5/2017*

To,
 The Secretary,
 Ministry of Environment, Forest and Climate Change,
 Indira Paryavaran Bhawan,
 Jorbagh Road, Aliganj
 New Delhi-110003

Kind Attention: Director, IA – II (Coal Mining) Division,

Sub.: Pit Head Coking Coal Washery of 3.5 MTPA of M/s Steel Authority of India Limited. in an area of 20 ha located in Tasra Coal Block of Jharia Coalfields, District Dhanbad, Jharkhand – Environmental Clearance reg..

Ref. : No. J-11015/365/2009-IA II(M) pt, dated 30.03.2017

Sir,

At the outset we thank you for granting Environmental Clearance of Pit Head Coking Coal Washery of 3.5 MTPA of M/s Steel Authority of India Limited over an area of 20 ha located in Tasra Coal Block of Jharia Coalfields, District Dhanbad, Jharkhand.

In this regard, it is submitted that MoEF granted Environmental Clearance vide No. J-11015/122.2007-IA.II(M) dated 13.10.2009 for Tasra Coal Mining Project (4MTPA) of M/s Steel Authority of India Limited stipulating a condition {Specific Condition (ii)} for obtaining Environmental Clearance for Coal Washery of 3.5 MTPA capacity. Accordingly, application for the same was made and Environmental Clearance has been granted for Pit Head Coal Washery of 3.5 MTPA vide No. J-11015/365/2009-IA II(M) pt, dated 30.03.2017. Copy of the above stated Environmental Clearances granted by MoEFCC for the Tasra Coal Mining Project and Coal Washery are collectively enclosed at **Annexure – 1** for ready reference.

In this regard, as per the envisaged plan it was originally envisaged that ROM coal produced from Tasra Block will be transported by dumpers to Coal Handling Plant (CHP) of Tasra Block this has been indicated in Chapter II of the approved EIA/EMP Report at para no. 2.7.3 (page no. 38), wherein it is clearly mentioned that the Coal will be transported upto the receiving pit through the haul road along southern limb of the pit. Copy of the relevant page (Page – 38) from EIA Report is placed at **Annexure – 2**.

Contd.. p/2



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COLLIERIES DIVISION, CHASNALLA

- 2 -

Further in page 47 para 2.9.1 it is mentioned that ROM coal produced in Tasra Block will be crushed down to 75 mm in the proposed CHP and stored in a 5000 t bunker at CHP end. Crushed -75 mm raw coal will be reclaimed and conveyed to truck loading hoppers located at CHP end for onward transportation by 20/35t tipping trucks to raw coal receiving pit at washery end. Copy of the relevant page (Page – 47) from EIA Report is placed at **Annexure – 3**.

However, in order to minimize the dust load on the region, as directed by EAC, MoEFCC while presenting the proposal for Coal Washery, it was agreed upon that the crushed coal from CHP would be transported to the proposed washery through Long Distance Belt Conveyor System (LDBC) covering a length of 2 Km. The same was communicated while clarifying the observation of EAC vide our letter No GM/25-PC/134 dated 05.09.16. Accordingly, installation of LDBC for transportation of coal from Tasra Coal Pit to proposed washery covering a length of 2 km has been stipulated in the EC grant order of Coal Washery as a specific condition {A(iii)}.

We would like to bring your kind attention to the preamble of the EC granted for Coal Washery vide order No. J-11015/365/2009-IA II(M) pt, dated 30.03.2017 at para “3(xii) Transportation : Coal transportation in pit by covered conveyor from in pit to pit head coal handling plant, Surface to siding by covered conveyor belt to Pre-Weigh Bin and loading at siding by rail”. This is in contradiction to the plan envisaged and approved for transportation of coal from mine pit to Coal Handling Plant as per the EC grant order No J-11015/122.2007-IA.II(M) dated 13.10.2009 of Tasra Coal Mining Project (4MTPA).

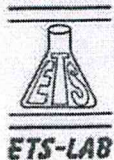
It is therefore, requested to issue suitable correction in para 3(xii) of the EC grant order of Coal Washery (3.5 MTPA) dated 30.03.2017 may be corrected as ““3(xii) Transportation : Coal transportation in pit, from in pit to coal handling plant through haul road, coal handling plant to coal washery by covered conveyor belt to Pre-Weigh Bin and loading at siding by rail” in line with the EC grant order of the Tasra Coal Mining Pit (4 MTPA).

Thanking you,

Yours faithfully,

Asm 12/2015
General Manager (C&T)

Encl. : As stated above.



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ISO 9001/14001/OHSAS 18001
Acc. No.: M31112041N

TEST REPORT

TEST REPORT NO : ETS/46B-22/10/2017

DATE OF REPORT : 28-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S. STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 23-10-2017

Analysis Start Date : 26-10-2017

Analysis End Date : 27-10-2017

Duration Of Sampling : 23-10-2017 To 24-10-2017 24.0 HOURS

Sample ID No : 46B-22/10

Sampling Done By : ETS STAFF

Sampling Location : CHIPABAD, AAQ-CWBZ1

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 31.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	74.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	41.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	18.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.75	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m ³	28.0	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m ³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m ³	24.0	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m ³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrene (BaP)	ng/m ³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m ³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m ³	1.35	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m ³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1



Format no ETS /LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Md. Humraj
Dy. Quality manager

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after one month from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.



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JAS-ANZ



ISO 9001/14001/OHSAS 18001
Acc. No. - M31112041N

TEST REPORT

TEST REPORT NO : ETS/46B-23/10/2017

DATE OF REPORT : 28-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 23-10-2017

Analysis Start Date : 26-10-2017

Analysis End Date : 27-10-2017

Duration Of Sampling : 23-10-2017 To 24-10-2017 24.0 HOURS

Sample ID No : 46B-23/10

Sampling Done By : ETS STAFF

Sampling Location : SANTHLDIH, AAQ-CWBZ2

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 32.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	71.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	34.3	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	18.2	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.68	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m ³	24.2	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m ³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m ³	28.0	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m ³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrene (BaP)	ng/m ³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m ³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m ³	1.54	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m ³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1



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Format no ETS /LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Md. Humraj

Dy. Quality manager

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after one month from the date of test report issued.
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Acc. No.- M31112041N

TEST REPORT

TEST REPORT NO : ETS/46B-20/10/2017

DATE OF REPORT : 28-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S. STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 19-10-2017

Analysis Start Date : 22-10-2017

Analysis End Date : 23-10-2017

Duration Of Sampling : 19-10-2017 To 20-10-2017 24.0 HOURS

Sample ID No : 46B-20/10

Sampling Done By : ETS STAFF

Sampling Location : SUDAMDIH, AAQ-CWCZ3

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 30.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	78.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	44.1	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	17.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.58	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m ³	25.2	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m ³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m ³	38.0	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m ³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrene (BaP)	ng/m ³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m ³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m ³	1.55	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m ³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1



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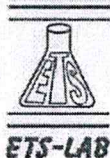
AUTHORIZED SIGNATORY

Md. Humraj

Dy. Quality manager

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Acc. No. - M31112041N

TEST REPORT

TEST REPORT NO : ETS/46B-21/10/2017

DATE OF REPORT : 28-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 19-10-2017

Analysis Start Date : 22-10-2017

Analysis End Date : 23-10-2017

Duration Of Sampling : 19-10-2017 To 20-10-2017 24.0 HOURS

Sample ID No : 46B-21/10

Sampling Done By : ETS STAFF

Sampling Location : RANGMATI, AAQ-CWCZ4

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 29.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	73.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	38.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	15.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.68	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO ₂)	µg/m ³	26.5	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m ³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O ₃)	µg/m ³	26.5	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH ₃)	µg/m ³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrene (BaP)	ng/m ³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m ³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C ₆ H ₆)	µg/m ³	1.35	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m ³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1



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Md. Humraj
Dy. Quality manager

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TEST REPORT

TEST REPORT NO : ETS/46B-18/10/2017

DATE OF REPORT : 28-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S. STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 18-10-2017

Analysis Start Date : 19-10-2017

Analysis End Date : 20-10-2017

Duration Of Sampling : 16-10-2017 To 17-10-2017 24.0 HOURS

Sample ID No : 46B-18/10

Sampling Done By : ETS STAFF

Sampling Location : PROPOSED SITE, AAQ-CWCZ1

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 28.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	91.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	49.4	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	15.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.58	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO ₂)	µg/m ³	22.4	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m ³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O ₃)	µg/m ³	22.3	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH ₃)	µg/m ³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrene (BaP)	ng/m ³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m ³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C ₆ H ₆)	µg/m ³	1.22	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m ³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1



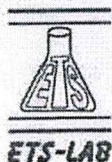
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For Enviro-Tech Services

AUTHORIZED SIGNATORY
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Dy. Quality manager

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TEST REPORT

TEST REPORT NO : ETS/46B-19/10/2017

DATE OF REPORT : 28-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 16-10-2017

Analysis Start Date : 19-10-2017

Analysis End Date : 20-10-2017

Duration Of Sampling : 16-10-2017 To 17-10-2017 24.0 HOURS

Sample ID No : 46B-19/10

Sampling Done By : ETS STAFF

Sampling Location : DIGWADIH, AAQ-CWCZ2

Sampling Method : ETS/STP/AIR-01

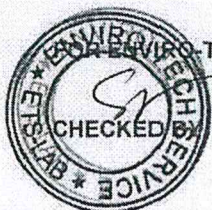
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 28.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	75.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	43.4	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.2	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.65	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO ₂)	µg/m ³	23.0	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m ³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O ₃)	µg/m ³	28.0	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH ₃)	µg/m ³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrene (BaP)	ng/m ³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m ³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C ₆ H ₆)	µg/m ³	1.25	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m ³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

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TEST REPORT

TEST REPORT NO : ETS/46B-14/10/2017

DATE OF REPORT :25-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

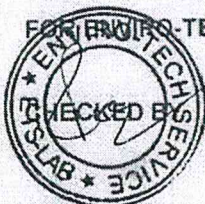
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M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 05-10-2017
Analysis Start Date : 09-10-2017
Analysis End Date : 10-10-2017
Duration Of Sampling : 05-10-2017 To 06-10-2017 24.0 HOURS
Sample ID No : 46B-14/10
Sampling Done By : ETS STAFF
Sampling Location : SUDAMDIH, AAQ-CWCZ3
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 27.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	74.7	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	42.4	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	18.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	23.5	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



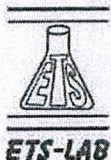
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For Enviro-Tech Services
AUTHORIZED SIGNATORY
Md. Humraj
Dy. Quality manager

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TEST REPORT

TEST REPORT NO : ETS/46B-15/10/2017

DATE OF REPORT :25-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 05-10-2017

Analysis Start Date : 09-10-2017

Analysis End Date : 10-10-2017

Duration Of Sampling : 03-10-2017 To 04-10-2017 24.0 HOURS

Sample ID No : 46B-15/10

Sampling Done By : ETS STAFF

Sampling Location : RANGMATI, AAQ-CWCZ4

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

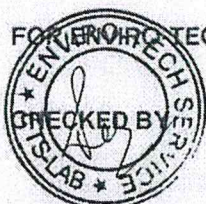
Weather Condition : CLEAR Ambient Temperature : 27.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	71.4	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	39.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	16.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	24.0	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

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TEST REPORT

TEST REPORT NO : ETS/46B-17/10/2017

DATE OF REPORT : 25-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 09-10-2017
Analysis Start Date : 12-10-2017
Analysis End Date : 13-10-2017
Duration Of Sampling : 09-10-2017 To 10-10-2017 24.0 HOURS
Sample ID No : 46B-17/10
Sampling Done By : ETS STAFF
Sampling Location : SANTHLDIH, AAQ-CWBZ2
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 27.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	69.8	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	36.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	16.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	23.2	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



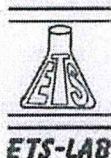
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TEST REPORT

TEST REPORT NO : ETS/46B-13/10/2017

DATE OF REPORT : 25-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 03-10-2017
Analysis Start Date : 06-10-2017
Analysis End Date : 07-10-2017
Duration Of Sampling : 03-10-2017 To 04-10-2017 24.0 HOURS
Sample ID No : 46B-13/10
Sampling Done By : ETS STAFF
Sampling Location : DIGWADIH, AAQ-CWCZ2
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 27.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	74.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	41.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	21.7	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



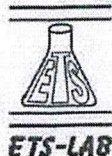
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TEST REPORT

TEST REPORT NO : ETS/46B-12/10/2017

DATE OF REPORT : 25-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 03-10-2017

Analysis Start Date : 06-10-2017

Analysis End Date : 07-10-2017

Duration Of Sampling : 03-10-2017 To 04-10-2017 24.0 HOURS

Sample ID No : 46B-12/10

Sampling Done By : ETS STAFF

Sampling Location : PROPOSED SITE, AAQ-CWCZ1

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 27.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	89.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	48.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	14.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	20.2	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

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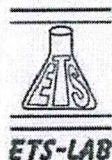
ENVIRO-TECH SERVICES

Format no ETS /LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

Md. Humraj
AUTHORIZED SIGNATORY
Dy. Quality Manager

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JAS-ANZ



ISO 9001/14001/OHSAS 18001
Acc. No.- M31112041N

TEST REPORT

TEST REPORT NO : ETS/46B-16/10/2017

DATE OF REPORT : 25-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 09-10-2017

Analysis Start Date : 12-10-2017

Analysis End Date : 13-10-2017

Duration Of Sampling : 09-10-2017 To 10-10-2017 24.0 HOURS

Sample ID No : 46B-16/10

Sampling Done By : ETS STAFF

Sampling Location : CHIPABAD, AAQ-CWBZ1

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 27.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	70.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	39.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	17.4	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	25.2	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

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ENVIRO-TECH SERVICES

Format no ETS /LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

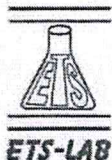
For Enviro-Tech Services

AUTHORIZED SIGNATORY

Md. Humraj
Dy. Quality manager

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Acc. No.- M31112041N

TEST REPORT

TEST REPORT NO : ETS/58-36/11/2017

DATE OF REPORT : 25-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

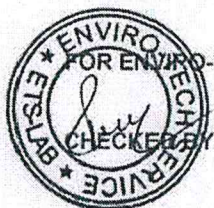
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M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 03-11-2017
Analysis Start Date : 06-11-2017
Analysis End Date : 07-11-2017
Duration Of Sampling : 03-11-2017 To 04-11-2017 24.0 HOURS
Sample ID No : 58-36/11
Sampling Done By : ETS STAFF
Sampling Location : DIGWADIH, AAQ-CWCZ2
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	84.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	44.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	14.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	23.7	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



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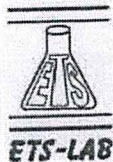
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AUTHORIZED SIGNATORY
Md. Humraj
Dy. Quality manager

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Acc. No. - M31112041N

TEST REPORT

TEST REPORT NO : ETS/58-35/11/2017

DATE OF REPORT :25-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

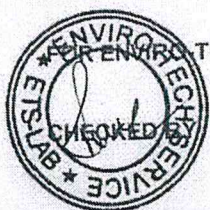
Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S. STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 03-11-2017
Analysis Start Date : 06-11-2017
Analysis End Date : 07-11-2017
Duration Of Sampling : 03-11-2017 To 04-11-2017 24.0 HOURS
Sample ID No : 58-35/11
Sampling Done By : ETS STAFF
Sampling Location : PROPOSED SITE, AAQ-CWCZ1
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	81.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	44.3	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	15.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	22.5	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

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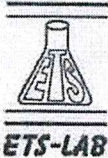
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AUTHORIZED SIGNATORY

Md. Humraj
Dy. Quality manager

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TEST REPORT

TEST REPORT NO : ETS/58-40/11/2017

DATE OF REPORT : 25-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 13-11-2017

Analysis Start Date : 15-11-2017

Analysis End Date : 17-11-2017

Duration Of Sampling : 13-11-2017 To 14-11-2017 24.0 HOURS

Sample ID No : 58-40/11

Sampling Done By : ETS STAFF

Sampling Location : SANTHLDIH, AAQ-CWBZ2

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

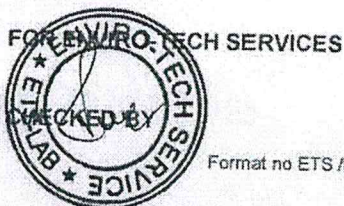
Weather Condition : CLEAR

Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	78.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	39.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.2	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	25.0	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

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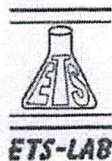
AUTHORIZED SIGNATORY

Md. Humraj

Dy. Quality manager

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TEST REPORT

TEST REPORT NO : ETS/58-39/11/2017

DATE OF REPORT : 25-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

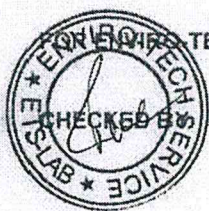
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M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 13-11-2017
Analysis Start Date : 15-11-2017
Analysis End Date : 17-11-2017
Duration Of Sampling : 13-11-2017 To 14-11-2017 24.0 HOURS
Sample ID No : 58-39/11
Sampling Done By : ETS STAFF
Sampling Location : CHIPABAD, AAQ-CWBZ1
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	72.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	35.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	14.4	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	23.2	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



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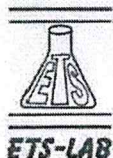
AUTHORIZED SIGNATORY

Md. Humayun

Dy. Quality manager

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TEST REPORT

TEST REPORT NO : ETS/58-38/11/2017

DATE OF REPORT : 25-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S. STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 07-11-2017
Analysis Start Date : 09-11-2017
Analysis End Date : 10-11-2017
Duration Of Sampling : 07-11-2017 To 08-11-2017 24.0 HOURS
Sample ID No : 58-38/11
Sampling Done By : ETS STAFF
Sampling Location : RANGMATI, AAQ-CWCZ4
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	75.4	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	40.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	15.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	25.0	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



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Acc. No.- M31112041N

TEST REPORT

TEST REPORT NO : ETS/58-37/11/2017

DATE OF REPORT :25-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

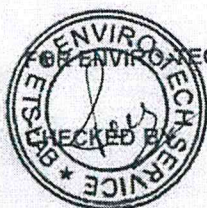
Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 07-11-2017
Analysis Start Date : 09-11-2017
Analysis End Date : 10-11-2017
Duration Of Sampling : 07-11-2017 To 08-11-2017 24.0 HOURS
Sample ID No : 58-37/11
Sampling Done By : ETS STAFF
Sampling Location : SUDAMDIH, AAQ-CWCZ3
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	77.7	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	47.4	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	17.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	25.5	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

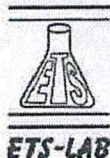


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Md. H. J.
Dy. Quality manager

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TEST REPORT

TEST REPORT NO : ETS/118-16/11/2017

DATE OF REPORT :25-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 14-12-2017

Analysis Start Date : 16-12-2017

Analysis End Date : 18-12-2017

Duration Of Sampling : 14-12-2017 To 15-12-2017 24.0 HOURS

Sample ID No : 118-16/12

Sampling Done By : ETS STAFF

Sampling Location : SANTHLDIH, AAQ-CWBZ2

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	72.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	42.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	15.2	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	24.0	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



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ISO 9001/14001/OHSAS 18001
Acc. No.- M31112041N

TEST REPORT

TEST REPORT NO : ETS/118-13/11/2017

DATE OF REPORT : 25-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S. STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 08-12-2017
Analysis Start Date : 10-12-2017
Analysis End Date : 11-12-2017
Duration Of Sampling : 08-12-2017 To 09-12-2017 24.0 HOURS
Sample ID No : 118-13/12
Sampling Done By : ETS STAFF
Sampling Location : SUDAMDIH, AAQ-CWCZ3
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	79.7	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	44.4	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	16.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	24.5	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

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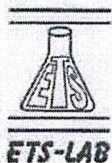
For Enviro-Tech Services

AUTHORIZED SIGNATORY

Md. Humraj
Dy. Quality manager

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Acc. No. - M31112041N

TEST REPORT

TEST REPORT NO : ETS/118-12/12/2017

DATE OF REPORT : 25-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 04-12-2017

Analysis Start Date : 07-12-2017

Analysis End Date : 08-12-2017

Duration Of Sampling : 04-12-2017 To 05-12-2017 24.0 HOURS

Sample ID No : 118-12/12

Sampling Done By : ETS STAFF

Sampling Location : DIGWADIH, AAQ-CWCZ2

Sampling Method : ETS/STP/AIR-01

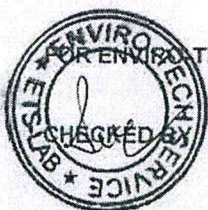
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	84.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	44.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	14.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	23.7	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

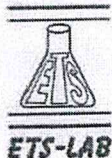


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For Enviro Tech Services
AUTHORIZED SIGNATORY
Md. Humraj
Dy. Quality manager

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Acc. No.- M31112041N

TEST REPORT

TEST REPORT NO : ETS/118-14/12/2017

DATE OF REPORT : 25-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

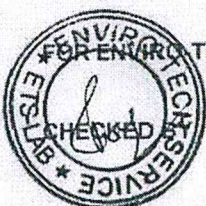
Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S. STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 08-12-2017
Analysis Start Date : 10-12-2017
Analysis End Date : 11-12-2017
Duration Of Sampling : 08-12-2017 To 09-12-2017 24.0 HOURS
Sample ID No : 118-14/12
Sampling Done By : ETS STAFF
Sampling Location : RANGMATI, AAQ-CWCZ4
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	85.4	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	45.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	16.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	27.0	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



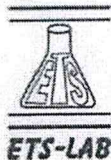
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For Enviro-Tech Services
AUTHORIZED SIGNATORY
Md. Humraj
Dy. Quality manager

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TEST REPORT

TEST REPORT NO : ETS/118-15/12/2017

DATE OF REPORT :25-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 14-12-2017
Analysis Start Date : 16-12-2017
Analysis End Date : 18-12-2017
Duration Of Sampling : 14-12-2017 To 15-12-2017 24.0 HOURS
Sample ID No : 118-15/12
Sampling Done By : ETS STAFF
Sampling Location : CHIPABAD, AAQ-CWBZ1
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.4	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	25.2	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



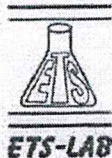
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AUTHORIZED SIGNATORY

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Dy. Quality manager

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TEST REPORT

TEST REPORT NO : ETS/118-16/11/2017

DATE OF REPORT : 25-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

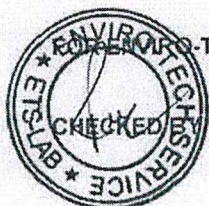
Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S. STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 14-12-2017
Analysis Start Date : 16-12-2017
Analysis End Date : 18-12-2017
Duration Of Sampling : 14-12-2017 To 15-12-2017 24.0 HOURS
Sample ID No : 118-16/12
Sampling Done By : ETS STAFF
Sampling Location : SANTHLDIH, AAQ-CWBZ2
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	72.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	42.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	15.2	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	24.0	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

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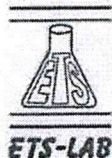
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AUTHORIZED SIGNATORY

Md. Hur
Dy. Quality manager

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Acc. No.: M31112041N

TEST REPORT

TEST REPORT NO : ETS/279-7/01/2018

DATE OF REPORT :24-01-2018

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 05-01-2018

Analysis Start Date : 09-01-2018

Analysis End Date : 10-01-2018

Duration Of Sampling : 05-01-2018 To 06-01-2018 24.0 HOURS

Sample ID No : 279-7/01

Sampling Done By : ETS STAFF

Sampling Location : SUDAMDIH, AAQ-CWCZ3

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	72.7	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	45.4	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	23.5	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1



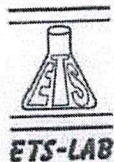
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For Enviro-Tech Services

Md. Humraj
AUTHORIZED SIGNATORY
By Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/279-10/01/2018

DATE OF REPORT : 24-01-2018

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 09-01-2018
Analysis Start Date : 12-01-2018
Analysis End Date : 13-01-2018
Duration Of Sampling : 09-01-2018 To 10-01-2018 24.0 HOURS
Sample ID No : 279-10/01
Sampling Done By : ETS STAFF
Sampling Location : SANTHLDIH, AAQ-CWB22
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	72.8	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	38.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	15.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	22.2	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

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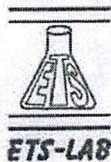


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Authorized Signatory
By: Quality manager

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TEST REPORT

TEST REPORT NO : ETS/279-9/01/2018

DATE OF REPORT : 24-01-2018

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 09-01-2018

Analysis Start Date : 12-01-2018

Analysis End Date : 13-01-2018

Duration Of Sampling : 09-01-2018 To 10-01-2018 24.0 HOURS

Sample ID No : 279-9/01

Sampling Done By : ETS STAFF

Sampling Location : CHIPABAD, AAQ-CWBZ1

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

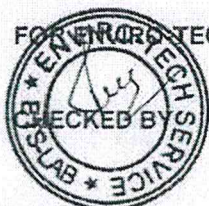
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	78.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	38.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	16.4	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	24.2	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

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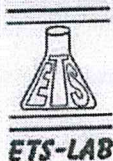
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AUTHORIZED SIGNATORY
Dy. Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/279-8/01/2018

DATE OF REPORT : 24-01-2018

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 05-01-2018

Analysis Start Date : 09-01-2018

Analysis End Date : 10-01-2018

Duration Of Sampling : 03-01-2018 To 04-01-2018 24.0 HOURS

Sample ID No : 279-8/01

Sampling Done By : ETS STAFF

Sampling Location : RANGMATI, AAQ-CWCZ4

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 24.0 °C

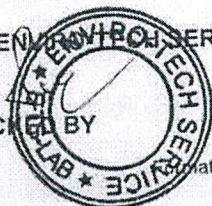
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	72.9	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	35.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m ³	18.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	23.0	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

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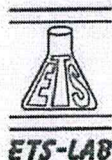
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For Enviro-Tech Services

Md. Humraj
AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO : ETS/279-6/01/2018

DATE OF REPORT : 24-01-2018

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INIDA

Date of Sampling : 03-01-2018

Analysis Start Date : 06-01-2018

Analysis End Date : 07-01-2018

Duration Of Sampling : 03-01-2018 To 04-01-2018 24.0 HOURS

Sample ID No : 279-6/01

Sampling Done By : ETS STAFF

Sampling Location : DIGWADIH, AAQ-CWCZ2

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 3.5 mtr. (From Ground)

Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	76.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	40.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	15.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	20.7	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

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CHECKED BY



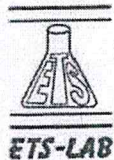
Format no ETS/LAB/IR-01 Issue No 04 dt 01/06/2015 Rev No 03 dt 01/06/2015

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Md. Humraj
Dy. Quality manager

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after one month from the date of test report issued.
3. The results indicated only refer to the tested samples and listed specific parameters.



ENVIRO-TECH SERVICES

An Environmental Analytical Laboratory

Environmental Monitoring, Testing and Services

(An ISO 9001:2015, 14001:2015 and OHSAS 18001:2007 Certified Company)

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JAS-ANZ



ISO 9001/14001/OHSAS 18001
Acc. No. - M31112041N

TEST REPORT

TEST REPORT NO : ETS/279-5/01/2018

DATE OF REPORT : 24-01-2018

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : PIT HEAD COKING COAL WASHERY OF 3.5 MTPA
M/S, STEEL AUTHORITY OF INDIA LIMITED,
DHANBAD, JHARKHAND, INDIA

Date of Sampling : 03-01-2018
Analysis Start Date : 06-01-2018
Analysis End Date : 07-01-2018
Duration Of Sampling : 03-01-2018 To 04-01-2018 24.0 HOURS
Sample ID No : 279-5/01
Sampling Done By : ETS STAFF
Sampling Location : PROPOSED SITE, AAQ-CWCZ1
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 3.5 mtr. (From Ground)
Weather Condition : CLEAR Ambient Temperature : 24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	85.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	45.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO ₂)	µg/m ³	12.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	22.2	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****



Page 1 of 1

For Enviro-Tech Services

Md. Humraj
AUTHORIZED SIGNATORY

Format no ETS /LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after one month from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.

