

Ref No.: BCL/SCW Coal Washery/SEIAA, Bhopal/EC compliance/2021-22/59  
22.11.2021

### **EC SIX MONTHLY COMPLIANCE REPORT**

### **COAL WASHERY PLANT**

**To,**  
**Member Secretary**  
**State Environment Impact Assessment Authority (SEIAA)**  
**Paryavaran Parisar, E-5, Arera Colony**  
**Bhopal – 462016 (M.P.)**

Sub: **Six Monthly Environmental Clearance Compliance status report of Coal Washery Plant**

Ref: EC letter no. 384/EPCO-SEIAA/2009 dated 27.04.2009

Dear Sir,

With reference to aforesaid EC letter, we are furnishing below the point wise six-monthly compliance status for the period **01.04.2021 to 30.09.2021 (i.e. April - Sept, 2021)** report of our **coal washery plant**, for your kind information: -

<b>Sr. No.</b>	<b>Particulars</b>	<b>Point wise Reply</b>
<b>E. Specific Conditions</b>		
i)	Coal rejects from the process will be used in thermal power plant. The slimes from the settling tank will be taken out periodically and mixed with washery rejects for power generation.	Being followed.  Coal rejects from the process is used in thermal power plant.
ii)	The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/ shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire.	Being followed.  The raw coal, washed coal and coal wastes (rejects) is stacked properly at earmarked site (s) within stockyards fitted with wind breakers/ shields.
iii)	Hoppers of coal crushing unit and washery unit shall be fitted with high efficiency Bag Dust collector/ Dust extractors. Mist spray water sprinkler	Being followed.  Wet process technology is adopted to prevent of air borne & fugitive dust emission. Coal is transported by covered conveyor belt having

	system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of belt conveyor system which shall be closed and from transportation roads.	water spraying and pocket filter at each and every transfer points. All the belt conveyors are covered at the top and sides to prevent dust particles from becoming airborne. Therefore, possibilities of fugitive emission through material transport are considerably reduced.
iv)	The power requirement of the project is 0.45 MW which will be made available from their own 27 MW thermal power plant.	Being followed. Power requirement is met by 27 MW Thermal Power Plant.
v)	All internal roads shall be concretized. The roads shall be regularly cleaned with mechanical sweepers. Adequate plantation to be developed along the roads.	All the internal roads within the plant premises have been made concreted. Already in practices. Presently we have 03 nos. sweeping machines to improve overall housekeeping. All the sweeping machines are more effective and these are working efficiently with speed 3.0 km / hr. A thick green belt has already been developed in and around our plant and colony. Till March, 2021 we have planted 2,29,209 nos. of trees. We have given more strengthen for planting local species like Neem, Amla, Peepal, Aam, Barged etc. with the consultation of local forest officer.
vi)	Industrial waste water (workshop and waste water from the washery) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed for treatment of workshop effluent.	Water is re-circulated after use in a close circuit system and is reused with adequate addition of Chemicals.
vii)	The washery unit shall be a zero discharge facility and no waste water shall be discharge from the washery into the drain/natural water courses. Recycled water shall be used for development and maintenance of green belt and in the plant operation.	We have maintained zero industrial discharge to drain or natural water. Recycled water is being used for development and maintenance of green belt and in the plant operation.
viii)	Minimum 33% of the washery project area be developed as green belt.	We are in the process. We have done plantation in 9115 m2 area till now.

<b>F. General Conditions</b>		
i)	No change in technology and scope of working shall be made without prior approval of the State Environmental Assessment Authority.	Will be followed.  No change in technology and scope of working will be made without prior approval of the State Environmental Assessment Authority.
ii)	No change in the calendar plan for washing the quantum of mineral coal and waste produced shall be made.	Is followed.
iii)	Four ambient air quality monitoring stations shall be established for monitoring SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> and heavy metals such as Hg, Pb, As, Cr etc. Locations of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the Board.	Being followed.  Four ambient air quality monitoring stations are established for monitoring SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> and heavy metals such as Hg, Pb, As, Cr etc. Reports are being submitted to MPPCB regularly
iv)	Fugitive dust emission (SPM and RSPM and heavy metals such as Hg, Pb, As, Cr etc.) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on roads, wagon loading, dump trucks (loading & unloading) points shall be provided and properly maintained.	Being followed.  Water spray system is provided on roads, wagon loading & unloading section for controlling the fugitive dust emission and is maintained with extreme care.
v.	Periodic monitoring report with data on ambient air quality (SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> and heavy metals such as Hg, Pb, As, Cr etc.) shall be regularly submitted to the ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.	Our coal washery plant is within the premises of existing cement plant. Hence the AAQ data of cement plant & coal washery is same. AAQ monitoring reports are enclosed as <b>Annexure-1</b> .  Further there are no possibilities of heavy metals like Hg, Pb, As, Cr etc. in the Ambient air.
Vi	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment.	Being followed.  In this direction, following measures are taken: <ul style="list-style-type: none"> <li>➤ Proper encasement of noise generating sources are done to control the noise level below 75 dB(A).</li> <li>➤ Machines are housed in building &amp; provided with acoustic enclosures.</li> <li>➤ Silencers and mufflers of the individual machines are being regularly checked.</li> <li>➤ Noise attenuating devices like ear plug and ear muffs are providing to the workers in the area where required.</li> </ul>

Vii	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation the mineral shall be covered with tarpaulins and optimally loaded.	Being followed.  PUC of all vehicles is checked before allowing the vehicles inside plant. Mineral is transported in covered vehicles.
Viii	Environmental quality shall be regularly monitored and got analyzed through an Environmental laboratory established under the Environmental (Protection) Act, 1986.	Being followed.  We have deployed NABL accredited third party for environmental monitoring.
ix	Personnel 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. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractors due to exposure to dust and to take corrective measures, if needed.	Being followed very strictly.  Persons working in dusty areas are provided proper PPEs and are undergone periodic health checkup. Records are maintained.
x.	An environmental management cell with technically qualified personnel shall be set up under the control of senior executive.	Already in function.  An environment management cell is established under control of senior executive.
xi.	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to this ministry and it's Regional Office at Bhopal.	Being followed strictly.  Presently our coal washery plant is not in operation due to non-availability of high ash coal. Whenever we get high ash coal, we will operate it.
xii.	The Regional Office of this ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities shall extent full co-operation to this office of the Regional Office by furnishing the requisite data/information/monitoring report.	Will be followed.  We will extend full co-operation to the offers from regional offices of MOEF/CPCB/MPPCB.
xiii)	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 projects 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 State Level Environment Impact Assessment Authority at website <a href="http://www.mpseiaa.nic.in">www.mpseiaa.nic.in</a> .	Implemented.  The accordance of Environmental Clearance was published in News paper  Copy of the same enclosed as <b>Annexure – 2</b> .

3.	The state level Environment Impact Assessment Authority or any other competent authority may stipulate any further condition for environmental protection.	Agreed
4.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environmental (Protection) Act, 1986.	Agreed

Hope the above given information are in order.

With regards,

Yours faithfully,  
for BIRLA CORPORATION LIMITED  
Unit- COAL WASHERY PLANT



(Sunil Kasture)  
Head-Sustainable Development

Copy to:

1. Dy. Director General Forest (Central)  
Regional Office, Western Region,  
Kendriya Paryavaran Bhavan,  
Link Road No. 3, E/5, Ravishankar Nagar,  
Bhopal – 462016(M.P.)
2. Regional Director  
Central Pollution Control Board,  
Regional Directorate (Central),  
Paryavaran Parisar,  
E-5, Arera Colony, Bhopal (M.P.)  
Bhopal-462016
3. Member Secretary  
M.P. Pollution Control Board,  
Paryavaran Parisar,  
E-5, Arera Colony,  
Bhopal (M.P.)



# TEST REPORT

Doc.No. CEGTH/QP/13/P-01

Report No. CEG/EN/21-22/0116 (A-17)

Date: 03-07-2021

Name & address of Customer#	Birla Corporation Ltd. (Unit Satna Cement Works) P.O. Birla Vikas, Satna- 485005, Madhya Pradesh
Reference No.#	Your PO. No. 4560394032, Dated 22/04/2020 & TRF Dated 21/06/2021
Material Identification with Details#	Ambient Air Quality Monitoring: I No.
Date & Time of Sampling#	23/06/2021(09:15 am) to 24/03/2021(08:00 am)
Sampling Protocol	IS:5182 (Pt-14) 2000 (RA 2005)
Sampling Location#	Near Dormitory (East)
Duration of Sampling (Minutes)	1365
Test Started On	27/06/2021
Test Completed On	03/07/2021
Nature & Activity of the Unit	Human & Vehicular Activities
Ambient Temperature (°C)	Min. 33, Max. 39
Weather Condition during Monitoring	Clear Sky
Instrument Code & Calibration Status	CEGTH/INS/C/300, CEG/INS/C/321, CEG/INS/C/216 & Calibrated

## RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
<b>I. Chemical Testing:-</b>					
<b>I. Atmospheric Pollution:-</b>					
1	Sulphur dioxide (SO <sub>2</sub> )	IS:5182 (Pt-2)-2001 (RA 2017)	11.29	µg/m <sup>3</sup>	80 (Max.)
2	Nitrogen dioxide(NO <sub>2</sub> )	IS:5182 (Pt-6)-2006 (RA 2017)	22.32	µg/m <sup>3</sup>	80 (Max.)
3	Particulate Matter (PM 2.5)	IS:5182 (Part 24)-2019	39.36	µg/m <sup>3</sup>	60 (Max.)
4	Particulate Matter (PM 10)	IS:5182 (Pt 23)-2006 (RA 2017)	87.14	µg/m <sup>3</sup>	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS:5182 (Part 25)-2018	3.87	µg/m <sup>3</sup>	400 (Max.)
6	Ozone (as O <sub>3</sub> )	IS:5182 (Pt-9) 1974 (RA 2014)	3.01	µg/m <sup>3</sup>	180 (Max.)
7	Carbon monoxide (as CO)	IS:5182 (Part -10)-1999	0.6	mg/m <sup>3</sup>	4 (Max.)
8	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS:5182 (Pt-11) 2006 (RA 2017)	BLQ (LOQ 1.0)	µg/m <sup>3</sup>	5.0 (Max.)
9	Benzo(a)Pyrene (BaP)	IS:5182 (Pt-12) 2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m <sup>3</sup>	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method 10 3.5 1999	2.97	ng/m <sup>3</sup>	20.0 (Max.)
11	Arsenic (as As)		0.61	ng/m <sup>3</sup>	6.0 (Max.)
12	Lead (as Pb)		0.11	µg/m <sup>3</sup>	1.0 (Max.)

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

\*\*NAAQS- National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-II-se-3(i)] 16.11.2009

Remark: Sampling done by CEGTH Representative ( Mr.Goverdhan Meena) as per sampling method CEGTH/SOP/C/20.

\*\*End of the Report\*\*

Page No. 1 of 1

*Goverdhan Meena*  
Reviewed By

*Vijay Chandra*  
Vijay Chandra  
(G.M. Lab Operation)  
Authorized Signatory

- Total liability of this laboratory is limited to the invoiced amount.
- The results listed refer only to the tested sample and applicable parameters. Endorsement of Product is neither intended nor implied.
- Information provided by the Customer
- This Test Report shall not be reproduced wholly or in part and can not be used as an evidence in the court of law without written approval of CEG TH & RC.
- From the date of issue of test report, the sample shall be stored, for 1 month in case of non-particulate items, with 1 liter for phospha sample, unless otherwise specified in applicable standards/regulatory requirement.
- Sample(s) not drawn by M/S CEG TH & RC, unless specified in the report. Sample received at CEGTH & RC 2nd Floor, Satna.

# TEST REPORT

Doc.No. CEGTH/QP/13/F-01

Report No.: CEG/EN/21-22/0116 (A-19)

Date: 03/07/2021

Name & address of Customer#	Birla Corporation Ltd. (Unit Satna Cement Works) P.O. Birla Vikas, Satna- 485005, Madhya Pradesh
Reference No.#	Your PO. No. 4560394032, Dated 22/04/2020 & TRF Dated 21/06/2021
Material Identification with Details#	Ambient Air Quality Monitoring: I No.
Date & Time of Sampling#	24/06/2021(10:05 am) to 25/06/2021(09:05 am)
Sampling Protocol	IS-5182 (Pt-14) 2000 (RA 2005)
Sampling Location#	Near Ram Singh Residence (West)
Duration of Sampling (Minutes)	1375
Test Started On	27/06/2021
Test Completed On	02/07/2021
Nature & Activity of the Unit	Human & Vehicular Activities
Ambient Temperature (°C)	Min. 33, Max. 39
Weather Condition during Monitoring	Clear Sky
Instrument Code & Calibration Status	APM-460-239-DT3-2014M 626-DTE-2016

## RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
<b>I. Chemical Testings:-</b>					
<b>I. Atmospheric Pollution:-</b>					
1	Sulphur dioxide (SO <sub>2</sub> )	IS-5182 (Pt-2)-2001 (RA 2017)	12.89	µg/m <sup>3</sup>	80 (Max.)
2	Nitrogen dioxide (NO <sub>2</sub> )	IS-5182 (Pt- 6)-2006 (RA 2017)	27.82	µg/m <sup>3</sup>	80 (Max.)
3	Particulate Matter (PM 2.5)	IS-5182 (Part 24)-2019	35.47	µg/m <sup>3</sup>	60 (Max.)
4	Particulate Matter (PM 10)	IS-5182 (Pt 23)-2006 (RA 2017)	82.28	µg/m <sup>3</sup>	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS-5182 (Part 25)-2018	2.49	µg/m <sup>3</sup>	400 (Max.)
6	Ozone (as O <sub>3</sub> )	IS-5182 (Pt-9) 1974 (RA 2014)	3.01	µg/m <sup>3</sup>	180 (Max.)
7	Carbon monoxide (as CO)	IS-5182 (Part -10) 1999	0.07	mg/m <sup>3</sup>	4 (Max.)
8	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS-5182 (Pt-11) 2006 (RA 2017)	BLQ (LOQ 1.0)	µg/m <sup>3</sup>	5.0 (Max.)
9	Benzo(a)Pyrene (BaP)	IS-5182 (Pt-12) 2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m <sup>3</sup>	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method 10 3.5 1999	2.02	ng/m <sup>3</sup>	20.0 (Max.)
11	Arsenic (as As)		1.21	ng/m <sup>3</sup>	6.0 (Max.)
12	Lead (as Pb)		0.04	µg/m <sup>3</sup>	1.0 (Max.)

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

\*\*NAAQS- National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-II-46 -K(i)] 16.11.2009.

Remark: Sampling done by CEGTH Representative (Mr. Govardhan Meena) as per sampling method CEGTH/SOP/C/20.

\*\*End of the Report\*\*

Page No. 1 of 1

*Govardhan Meena*  
Reviewed By

*Vijay Chandra*  
(G.M. Lab Operation)  
Authorized Signatory

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- Information provided by the Customer.
- This Test Report shall not be reproduced wholly or in part and can not be used as an evidence in the court of law without written permission of M/S CEG TH & RC.
- From the date of issue of test report, the sample shall be stored, for 1 month in case of non-potable items, upto 1 year for drinking samples, unless otherwise specified in applicable standards/regulatory requirement.
- Sample(s) not drawn by M/S CEG TH & RC, unless specified in the report. Sample tested at CEGTH & RC Pvt Ltd, Jaipur.



## TEST REPORT

Doc.No. CEGTH/QP/13/F-01

Report No.: CEG/EN/21-22/0116 (A-20)

Date: 03/07/2021

Name & address of Customer#	Birla Corporation Ltd. (Unit Satna Cement Works) P.O. Birla Vikas, Satna- 485005, Madhya Pradesh
Reference No.#	Your PO. No. 4560394032, Dated 22/04/2020 & TRF Dated 21/06/2021
Material Identification with Details#	Ambient Air Quality Monitoring: 1 No.
Date & Time of Sampling#	21/06/2021 (10:30 am) to 22/06/2021 (08:15 am)
Sampling Protocol	IS: 5182 (Pt-14) 2000 (RA 2005)
Sampling Location#	Near Ghurlang School (North)
Duration of Sampling (Minutes)	1335
Test Started On	27/06/2021
Test Completed On	02/07/2021
Nature & Activity of the Unit	Human & Vehicular Activities
Ambient Temperature (°C)	Min. 32, Max. 38
Weather Condition during Monitoring	Clear Sky
Instrument Code & Calibration Status	APM-460, 254-UD-2016, 339-TIT-2016

## RESULTS

S.No.	Parameters	Method of Test	Results	Unit	NAAQS**
<b>I. Chemical Testing:-</b>					
<b>1. Atmospheric Pollution:-</b>					
1	Sulphur dioxide (SO <sub>2</sub> )	IS: 5182 (Pt-2)-2001 (RA 2017)	7.43	µg/m <sup>3</sup>	80 (Max.)
2	Nitrogen dioxide (NO <sub>2</sub> )	IS: 5182 (Pt- 6)-2006 (RA 2017)	21.43	µg/m <sup>3</sup>	80 (Max.)
3	Particulate Matter (PM 2.5)	IS: 5182 (Part 24) 2010	34.91	µg/m <sup>3</sup>	60 (Max.)
4	Particulate Matter (PM 10)	IS: 5182 (Pt 23)-2006 (RA 2017)	73.29	µg/m <sup>3</sup>	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS: 5182 (Part 25) 2018	2.32	µg/m <sup>3</sup>	400 (Max.)
6	Ozone (as O <sub>3</sub> )	IS: 5182 (Pt-9) 1974 (RA 2014)	3.03	µg/m <sup>3</sup>	180 (Max.)
7	Carbon monoxide (as CO)	IS: 5182 (Part -10) 1999	0.5	mg/m <sup>3</sup>	4 (Max.)
8	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS: 5182 (Pt-11) 2006 (RA 2017)	BLQ (LOQ 1.0)	µg/m <sup>3</sup>	5.0 (Max.)
9	Benz(a)Pyrene (BaP)	IS: 5182 (Pt-12) 2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m <sup>3</sup>	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method 10.3.5 1999	2.76	ng/m <sup>3</sup>	20.0 (Max.)
11	Arsenic (as As)		0.45	ng/m <sup>3</sup>	6.0 (Max.)
12	Lead (as Pb)		0.06	µg/m <sup>3</sup>	1.0 (Max.)

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

\*\*NAAQS- National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (H)], [Part-II-se-3(c)] 16.11.2009

Remark: Sampling done by CEGTH Representative (Mr Goverdhan Meena) as per sampling method CEGTH/SOP/C/20.

\*\*End of the Report\*\*

Page No. 1 of 1

  
Reviewed By

  
Vicky Chandra  
(G.M. Lab Operation)  
Authorized Signatory

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- Information provided by the Customer
- This Test Report shall not be reproduced wholly or in part and can not be used as an evidence in the court of law without written approval of M/s CEG TH & RC
- From the date of issue of test report, the sample shall be stored, for 1 month in case of non-perishable items, upto 1 year for pharma samples, unless otherwise specified in applicable standards/regulatory requirement.
- Sample(s) not drawn by M/s CEG TH & RC, unless specified in the report. Sample stored at CEGTH & RC, Part Lab, Jaipur



# TEST REPORT

Doc No: CEGTH/QP/13/F-01

Report No.: CEG/EN/21-22/0116 (A-18)

Date: 03/07/2021

Name & address of Customer#	Birla Corporation Ltd. (Unit Satna Cement Works) P.O. Birla Vikas, Satna- 485005, Madhya Pradesh
Reference No.#	Your PO No. 4560394032, Dated 22/04/2020 & TRF Dated 21/06/2021
Material Identification with Details#	Ambient Air Quality Monitoring: 1 No.
Date & Time of Sampling#	25/06/2021(09:30 am) to 26/06/2021(08:00 am)
Sampling Protocol	IS:5182 (Pt-14) 2000 (RA 2005)
Sampling Location#	Birla Vikas School (South)
Duration of Sampling (Minutes)	1350
Test Started On	27/06/2021
Test Completed On	02/07/2021
Nature & Activity of the Unit	Human & Vehicular Activities
Ambient Temperature (°C)	Min. 33, Max. 39
Weather Condition during Monitoring	Clear Sky
Instrument Code & Calibration Status	RDS/APH-808-DTP-2011, 321-DTP-2010

## RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
<b>I. Chemical Testing:-</b>					
<b>1. Atmospheric Pollution:-</b>					
1	Sulphur dioxide (SO <sub>2</sub> )	IS:5182 (Pt-2)-2001 (RA 2017)	8.01	µg/m <sup>3</sup>	80 (Max.)
2	Nitrogen dioxide (NO <sub>2</sub> )	IS:5182 (Pt-6)-2006 (RA 2017)	17.23	µg/m <sup>3</sup>	80 (Max.)
3	Particulate Matter (PM 2.5)	IS:5182 (Part-24)-2019	29.23	µg/m <sup>3</sup>	60 (Max.)
4	Particulate Matter (PM 10)	IS:5182 (Pt-23)-2006 (RA 2017)	72.01	µg/m <sup>3</sup>	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS:5182 (Part-25)-2018	3.89	µg/m <sup>3</sup>	400 (Max.)
6	Ozone (as O <sub>3</sub> )	IS:5182 (Pt-9)-1974 (RA 2014)	4.25	µg/m <sup>3</sup>	180 (Max.)
7	Carbon monoxide (as CO)	IS:5182 (Part-10)-1999	0.6	mg/m <sup>3</sup>	4 (Max.)
8	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS:5182 (Pt-11)-2006 (RA 2017)	BLQ (LOQ 1.0)	µg/m <sup>3</sup>	5.0 (Max.)
9	Benz(a)Pyrene (BaP)	IS:5182 (Pt-12)-2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m <sup>3</sup>	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	2.75	ng/m <sup>3</sup>	20.0 (Max.)
11	Arsenic (as As)		0.72	ng/m <sup>3</sup>	6.0 (Max.)
12	Lead (as Pb)		0.06	µg/m <sup>3</sup>	1.0 (Max.)

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification.

\*\*NAAQS- National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (B)], [Part-II-se-3(i)] 16.11.2009.

Remark: Sampling done by CEGTH Representative (Mr. Goverdhan Meena) as per sampling method CEGTH/SOP/C/20.

\*\*End of the Report\*\*

Page No: 1 of 1

*[Signature]*  
Reviewed By

*[Signature]*  
Vijay Chandra  
(G.M. Lab Operation)  
Authorized Signatory

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- This Test Report shall not be reproduced wholly or in part and can not be used as an evidence in the court of law without written permission of CEGTH & RC.
- From the date of issue of test report, the sample shall be stored, for 1 month in case of non-potable water, upto 1 year for drinking water, unless otherwise specified in applicable standards/regulatory requirement.
- Samples not drawn by MS-CEGTH & RC, unless specified in the Report. Sample tested at CEGTH & RC/MS/CEGTH/RC.

# TEST REPORT

Doc.No. CEGTH/QP/13/F-01

Report No.: CEGEN/21-22/0116 (A-16)

Date: 03/07/2021

Name & address of Customer#	Birla Corporation Ltd. (Unit Satna Cement Works) P.O. Birla Vikas, Satna- 483005, Madhya Pradesh
Reference No#	Your PO No. 4560394032, Dated 22/04/2020 & TRF Dated 21/06/2021
Material Identification with Details#	Ambient Air Quality Monitoring: 1 No.
Date & Time of Sampling#	22/06/2021(08:15 am) to 23/06/2021(07:45 am)
Sampling Protocol	IS:5182 (Pt-14) 2000 (RA 2005)
Sampling Location#	Bandhagarh Colony Kushi Upaj Mandi
Duration of Sampling (Minutes)	1410
Test Started On	27/06/2021
Test Completed On	02/07/2021
Nature & Activity of the Unit	Human & Vehicular Activities
Ambient Temperature (°C)	Min. 33, Max. 39
Weather Condition during Monitoring	Clear Sky
Instrument Code & Calibration Status	CEGTH/INS/C/300, CEG/INS/C/321, CEG/INS/C/216 & Calibrated

## RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
<b>I. Chemical Testing:-</b>					
<b>I. Atmospheric Pollution:-</b>					
1	Sulphur dioxide (SO <sub>2</sub> )	IS:5182 (Pt-2)-2001 (RA 2017)	8.01	µg/m <sup>3</sup>	80 (Max.)
2	Nitrogen dioxide (NO <sub>2</sub> )	IS:5182 (Pt-6)-2006 (RA 2017)	17.59	µg/m <sup>3</sup>	80 (Max.)
3	Particulate Matter (PM 2.5)	IS:5182 (Part 24)-2019	41.55	µg/m <sup>3</sup>	60 (Max.)
4	Particulate Matter (PM 10)	IS:5182 (Pt 23)-2006 (RA 2017)	92.12	µg/m <sup>3</sup>	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS:5182 (Part 25)-2018	1.9	µg/m <sup>3</sup>	400 (Max.)
6	Ozone (as O <sub>3</sub> )	IS:5182 (Pt-9) 1974 (RA 2014)	2.59	µg/m <sup>3</sup>	180 (Max.)
7	Carbon monoxide (as CO)	IS:5182 (Part -10)-1999	0.4	mg/m <sup>3</sup>	4 (Max.)
8	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS:5182 (Pt-11) 2006 (RA 2017)	BLQ (LOQ 1.0)	µg/m <sup>3</sup>	5.0 (Max.)
9	Benzo(a)Pyrene (BaP)	IS:5182 (Pt-12) 2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m <sup>3</sup>	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method 10 3.5 1999	1.90	ng/m <sup>3</sup>	20.0 (Max.)
11	Arsenic (as As)		0.09	ng/m <sup>3</sup>	6.0 (Max.)
12	Lead (as Pb)		0.07	µg/m <sup>3</sup>	1.0 (Max.)

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

\*\*NAAQS- National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009.

Remark: Sampling done by CEGTH Representative (Mr. Govardhan Meena) as per sampling method CEGTH/SOP/C/20.

\*\*End of the Report\*\*

Page No. 1 of 1

*Govardhan Meena*  
Reviewed By

*Vijay Chojra*  
Vijay Chojra  
(G.M. Lab Operation)  
Authorized Signatory

- Total liability of this laboratory is limited to the invoiced amount.
- The results listed refer only to the tested sample and applicable parameters. Endorsement of Product is neither inferred nor implied.
- Information provided by the Customer
- This Test Report shall not be reproduced wholly or in part and can not be used as an evidence in the court of law without written approval of ISO 15189 TIA & RC.
- From the date of issue of test report, the sample shall be stored, for 1 month in case of non perishable items, upto 1 year for pharma samples, unless otherwise specified in applicable standards/regulatory requirement.
- Sample(s) not drawn by MS CEO TH & RC, unless specified in the report. Sample tested at CEGTH & RC Pvt Ltd, Jaipur.



नव स्वदेश (दिनांक 12 मई 2009)

### आम सूचना

सर्व साधारण को सूचित किया जाता है कि बिरला कार्पोरेशन लिमिटेड को ग्राम घूरडांग, तहसील रघुराजनगर, जिला सतना (म.प्र.) में कोल वाशरी प्लांट (क्षमता 0.96 MTPA) को "State Environment Impact Assessment Authority" इकाई वन एवं पर्यावरण मंत्रालय, भारत सरकार, नई दिल्ली द्वारा अपने पत्र क्रमांक 384/EPCO-SEIAS/09 दिनांक 27 अप्रैल 2009 के द्वारा लगाने की स्वीकृति प्रदान की गयी है।

उपरोक्त पत्र की प्रति मध्यप्रदेश प्रदूषण नियंत्रण बोर्ड एवं वन एवं पर्यावरण मंत्रालय की इकाई "State Environment Impact Assessment Authority" की वेबसाइट <http://www.mpseiaa.nic.in> पर उपलब्ध है।