

Birla Corporation Limited Unit: Satna Cement Works

P.O.: Birla Vikas, Satna - 485005 Madhya Pradesh P: 07672 412000/01 F : 07672 257456 E : admin.scw@birlacorp.com

EC SIX MONTHLY COMPLIANCE REPORT

COAL WASHERY PLANT

29.12.2020

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 01.07.2020 to 31.12.2020 (i.e. July - December, 2020) report of our coal washery plant, for your kind information:-

Sr.	Particulars	Point wise Reply
No.		
E.	Specific Conditions	
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 system shall be installed and operated	Being followed. Wet process technology is adopted to prevent of air borne & fugitive

effectively at all times of operation to check dust emission. Coal is transported fugitive emissions from crushing operations, by covered conveyor belt having transfer points of belt conveyor system which water spraying and pocket filter at shall be closed and from transportation roads. each and every transfer points. All the belt conveyors are covered at the top and sides to prevent dust particles from becoming airborne. Therefore there are no possibilities of fugitive emission through material transport. iv) The power requirement of the project is 0.45 Being followed. MW which will be made available from their own 27 MW thermal power plant. v) All internal roads shall be concretized. The All the internal roads within the plant roads shall be regularly cleaned with premises have been made mechanical sweepers. Adequate plantation to concreted. be developed along the roads. 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, 2020 we have planted 2,49,210 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. Industrial waste water (workshop and waste Zero industrial discharge condition water from the washery) shall be properly is maintained. collected, treated so as to conform to the Water is re-circulated after use in a standards prescribed under GSR 422 (E) dated close circuit system and is reused 19th May 1993 and 31st December 1993 or as with addition adequate amended from time to time before discharge. Chemicals. Oil and grease trap shall be installed for treatment of workshop effluent.

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.	Zero industrial discharge condition is maintained. 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. In which 1500 nos of trees is already planted.		

F. 0	General Conditions	
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.	Will be followed.
iii)	Four ambient air quality monitoring stations shall be established for monitoring SPM, RSPM, SO2, NOx 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, SO2, NOx 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	Being followed. Water spray system is provided on roads, wagon loading & unloading section for controlling the fugitive dust emission and is maintained

be provided and properly maintained.	with extreme care.	
v. Periodic monitoring report with data on ambient air quality (SPM, RSPM, SO2, NOX 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. AAC monitoring reports are enclosed as Annexure-1. 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: Proper encasement of noise generating sources are done to control the noise level below 75	
	 dB(A). Machines are housed in building & provided with acoustic enclosures. Silencers and mufflers of the individual machines are being regularly checked. Noise attenuating devices like ear plug and ear muffs are providing to the workers in the area where required. 	
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	Being followed very strictly.	

protective respiratory devices and they shall also be Persons working in dusty areas are provided with adequate training and information on provided proper PPEs and are safety and health aspects. Occupational health undergone periodic health checkup. surveillance programme of the workers shall be Records are maintained. undertaken periodically to observe any contractors due to exposure to dust and to take corrective measures, if needed. x. An environmental management cell with technically Already in function. qualified personnel shall be set up under the control of An environment management cell is senior executive. established under control of senior executive. xi. The funds earmarked for environmental protection Being followed strictly. measures shall be kept in separate account and shall Presently our coal washery plant is not be diverted for other purpose. Year wise not in operation due to nonexpenditure shall be reported to this ministry and it's coal. availability of high ash Regional Office at Bhopal. Whenever we get high ash coal, we will operate it. xii. The Regional Office of this ministry located at Will be followed. Bhopal shall monitor compliance of the stipulated We will extend full co-operation to conditions. The project authorities shall extent full cothe offers from regional offices of operation to this office of the Regional Office by MOEF/CPCB/MPPCB. furnishing the requisite data/ information/monitoring report. xiii) The project authorities shall advertise at least in Implemented. two local newspapers widely circulated around The accordance of Environmental the project, one of which shall be in the Clearance was published in News vernacular language of the locality concerned paper within seven days of the clearance letter informing that the projects has been accorded Copy of the same enclosed as environmental clearance and a copy of the Annexure – 2. 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 www.mpseiaa.nic.in. 3. The Environment state level Impact | Agreed Assessment Authority or any other competent

	authority may stipulate any further condition for environmental protection.	
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

c.c.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,
 Paryavaran Parisar, E-5,
 Arera Colony, Bhopal-462016
- 3. Member Secretary
 M.P. Pollution Control Board,
 Paryavaran Parisar,
 E-5, Arera Colony,
 Bhopal (M.P.)



CEG Tower, B - 11 (G), Malviya Industrial Area Jaipur - 302017, Rajasthan, INDIA Tel.: 91-141-4046599, Fax: 91-141-2751806 info@cegtesthouse.com[www.cegtesthouse.com]

CIN: U73100RJ2005PTC020304

TEST REPORT

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

(Amendement No. 1)

Report No.: CEG/EN/20-21/04598

Date: 11/12/2020

Name & address of Customer	Birla Corporation Ltd.		
	(Unit Satna Cement Works)		
	P.O. Birla Vikas, Satna- 485005, Madhya Pradesh		
Reference No.	Your P.O. No. 4560394032, Dated 22.04.2020 & TRF Dated 04.09.2020		
	(Reg. No. 94402)		
Material Identification with Details	Ambient Air Quality Monitoring: 1 No.		
Date & Time of Sampling 31.08.2020 (9:00AM) to 01.09.2020 (9:00AM)			
Sampling Protocol	IS:5182 (Pt-14) 2000 (RA 2005)		
Sampling Location	East-Near Dormitory, East		
Duration of Sampling (Minutes)	1387.2		
Test Started On	08/09/2020		
Test Completed On	16/09/2020		
Nature & Activity of the Unit	Human & Vehicular Activities		
Ambient Temperature (°C)	Min. 25, Max. 29		
Weather Condition during Monitoring	Clear Sky		
Instrument Code & Calibration Status	CEGTH/INS/C/396, CEG/INS/C/304, CEG/INS/C/211 & Calibrated		

RESULTS

S. No	. Parameters	Method of Test	Results	Unit	NAAQS**
I. Ch	emical Testing:-				1
1.	Atmospheric Pollution:-			FICE 30 - 000 00 00 00 00 00 00 00 00 00 00 00	
1	Particulate Matter (PM 2.5)	IS:5182 (Part 24):2019	26.55	$\mu g/m^3$	60 (Max.)
_2	Particulate Matter (PM 10)	IS:5182 (Pt 23)-2006 (RA 2017)	59.70	$\mu g/m^3$	100 (Max.)
3	Nitrogen dioxide(NO ₂)	IS:5182 (Pt- 6)-2006 (RA 2017)	26.64	$\mu g/m^3$	80 (Max.)
4	Sulphur dioxide (SO ₂)	IS:5182 (Pt-2)-2001 (RA 2017)	10.07	μg/m ³	80 (Max.)
5	Carbon monoxide (as CO)	IS 5182 (Part-10):1999 (Ra 2019)	0,5	mg/m^3	4 (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.

.emark-1: Sampling done by CEGTH Representative (Mr.Sanjeev Kumar) as per sampling method CEGTH/SOP/C/20.

Remark-2: This Test Report superseds the Report No. CEG/EN/20-21/04598, Dated 16/09/2020 (Sampling Location corrected as requested by customer).

End of the Report

Page No. 1 of 1

Perior Checked By

(Dy GM Instrument Lab)
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.
- 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 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 tested at CEGTH & RC Pvt Ltd, Jaipur.



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TEST REPORT

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

Report No.: CEG/EN/20-21/04599

Date: 16/09/2020

Name & address of Customer	Birla Corporation Ltd.			
	(Unit Satna Cement Works)			
	P.O. Birla Vikas, Satna- 485005, Madhya Pradesh			
Reference No.	Your P.O. No. 4560394032, Dated 22.04.2020 & TRF Dated 04.09.2020			
	(Reg. No. 94401)			
Material Identification with Details	Ambient Air Quality Monitoring: 1 No.			
Date & Time of Sampling	01.09.2020 (10:00AM) to 02.09.2020 (10:00AM)			
Sampling Protocol	IS:5182 (Pt-14) 2000 (RA 2005)			
Sampling Location Near Ramsingh Residence (West)				
Duration of Sampling (Minutes)	1440.0			
Test Started On	08/09/2020			
Test Completed On	16/09/2020			
Nature & Activity of the Unit	Human & Vehicular Activities			
Ambient Temperature (°C)	Min. 27, Max. 30			
Weather Condition during Monitoring	Clear Sky			
Instrument Code & Calibration Status	CEGTH/INS/C/396, CEG/INS/C/304, CEG/INS/C/211 & Calibrated			

RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
I. Che	mical Testing:-				·
1. A	Atmospheric Pollution:-	What is a second of the second record record and a second record	The state of the s		THOUSE MADE AND A STATE OF THE
1	Particulate Matter (PM 2.5)	IS:5182 (Part 24):2019	32.17	$\mu g/m^3$	60 (Max.)
2	Particulate Matter (PM 10)	IS:5182 (Pt 23)-2006 (RA 2017)	69.61	$\mu g/m^3$	100 (Max.)
3	Nitrogen dioxide(NO ₂)	IS:5182 (Pt- 6)-2006 (RA 2017)	21.33	$\mu g/m^3$	80 (Max.)
4	Sulphur dioxide (SO ₂)	IS:5182 (Pt-2)-2001 (RA 2017)	6.60	$\mu g/m^3$	80 (Max.)
5	Carbon monoxide (as CO)	IS 5182 (Part-10):1999 (Ra 2019)	0,4	mg/m ³	4 (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. Sanjeev Kumar) as per sampling method CEGTH/SOP/C/20. **End of the Report**

Page No. 1 of 1

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(Dy. GM-Instrument Lab)

Authorized Signatory

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TEST REPORT

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

Report No.: CEG/EN/20-21/04600

Date: 16/09/2020

Name & address of Customer	Birla Corporation Ltd.		
	(Unit Satna Cement Works)		
	P.O. Birla Vikas, Satna- 485005, Madhya Pradesh		
Reference No.	Your P.O. No. 4560394032, Dated 22.04.2020 & TRF Dated 04.09.2020		
	(Reg. No. 94400)		
Material Identification with Details	Ambient Air Quality Monitoring: 1 No.		
Date & Time of Sampling	02.09.2020 (12:00PM) to 03.09.2020 (12:00PM)		
Sampling Protocol IS:5182 (Pt-14) 2000 (RA 2005)			
Sampling Location Near Ghurdang School (North)			
Duration of Sampling (Minutes)	1497.6		
Test Started On	08/09/2020		
Test Completed On	16/09/2020		
Nature & Activity of the Unit	Human & Vehicular Activities		
Ambient Temperature (°C)	Min. 26, Max. 29		
Weather Condition during Monitoring	Clear Sky		
Instrument Code & Calibration Status CEGTH/INS/C/396, CEG/INS/C/304, CEG/INS/C/211 & Calibrate			

RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
I. Che	mical Testing:-			- 1	
1. A	Atmospheric Pollution:-		W. C.		71 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1	Particulate Matter (PM 2.5)	IS:5182 (Part 24):2019	35.49	$\mu g/m^3$	60 (Max.)
2	Particulate Matter (PM 10)	IS:5182 (Pt 23)-2006 (RA 2017)	72,85	$\mu g/m^3$	100 (Max.)
3	Nitrogen dioxide(NO ₂)	IS:5182 (Pt- 6)-2006 (RA 2017)	22.39	$\mu g/m^3$	80 (Max.)
4	Sulphur dioxide (SO ₂)	IS:5182 (Pt-2)-2001 (RA 2017)	6.96	$\mu g/m^3$	80 (Max.)
5	Carbon monoxide (as CO)	IS 5182 (Part-10):1999 (Ra 2019)	0,6	mg/m^3	4 (Max.)

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

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

End of the Report

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Vishal Jhelum
(Dy. GM-Instrument Lab)
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^{**}NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-se.-3(i)] 16.11.2009.



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CIN: U73100RJ2005PTC020304

TEST REPORT

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

Report No.: CEG/EN/20-21/04601

Date: 16/09/2020

Date: 16/09/2020	
Birla Corporation Ltd.	
(Unit Satna Cement Works)	
P.O. Birla Vikas, Satna- 485005, Madhya Pradesh	
Your P.O. No. 4560394032, Dated 22.04.2020 & TRF Dated 04.09.2020	
(Reg. No. 94399)	
Ambient Air Quality Monitoring: 1 No.	
03.09.2020 (12:30PM) to 04.09.2020 (12:30PM)	
IS:5182 (Pt-14) 2000 (RA 2005)	
Birla Vikash School (South)	
1437.6	
08/09/2020	
16/09/2020	
Human & Vehicular Activities	
Min. 27, Max. 30	
Clear Sky	
CEGTH/INS/C/396, CEG/INS/C/304, CEG/INS/C/211 & Calibrated	

RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
I. Che	emical Testing:-			1	
	Atmospheric Pollution:-	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE			
1	Particulate Matter (PM 2.5)	IS:5182 (Part 24):2019	38 78	<u>це</u> /m ³	60 (Max.)
2	Particulate Matter (PM 10)	IS:5182 (Pt 23)-2006 (RA 2017)	82.80	$\mu g/m^3$	100 (Max.)
3	Nitrogen dioxide(NO ₂)	IS:5182 (Pt- 6)-2006 (RA 2017)	24 19	$\mu g/m^3$	80 (Max.)
4	Sulphur dioxide (SO ₂)	IS:5182 (Pt-2)-2001 (RA 2017)	9.70	$\mu g/m^3$	80 (Max.)
5	Carbon monoxide (as CO)	IS 5182 (Part-10):1999 (Ra 2019)	0.5	$\frac{\mu g}{mg/m^3}$	4 (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. Sanjeev Kumar) as per sampling method CEGTH/SOP/C/20.

End of the Report

Page No. 1 of 1

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Vishal Jhelum (Dy. GM-Instrument Lab) **Authorized Signatory**

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Sample(s) not drawn by M/S CEG TH & RC, unless specified in the report. Sample tested at CEGTH & RC Pvt Ltd. Jaipur

नित्र रवर्रेश (नित्नांक, 12 भई 2009)

आम सूचना

सर्व साधारण को सूचित किया जाता है कि बिस्ला कार्पोरेशन लिमिटेड को ग्राम घूरडांग, तहसील रघुराजनगर, जिला सतना (म.प्र.) में कौल वाशरी प्लांट (क्षमता 0.96 MTPA) को "State Environment Impact Assessment Autohority" 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।