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

Ref No.: BCL/SCW/MoEF, Delhi/EC compliance/2021-22/56
22.11.2021

To,
Dy. Director General Forest (Central)
Regional Office, Western Region,
Kendriya Paryavaran Bhavan,
Link Road No. 3, E/5, Ravishankar Nagar,
Bhopal – 462016(M.P.)

Sub: Compliance of Environmental Clearance conditions given by MoEF in respect of our Cement Expansion Project

Ref: EC letter no. J-11011/461/2011-IA-II (I) dated 10/10/2012

Dear Sir,

With reference to aforesaid EC letter, we are furnishing below the point wise compliance status for the period **01.04.2021 to 30.09.2021** (**April to Sept, 2021**) for your kind information: -

Sr. No.	Particulars	Point wise Reply
A.	**Specific Conditions**	
i.	Particulate matter emission shall be controlled within 50 mg/Nm3 by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB regularly.	Being followed. Bag house for Kiln-raw mills, Coal Mills, Cement Mills, Bag filters for packers and ESPs for Clinker cooler are provided. The stacks heights are as per MOEF&CC Guidelines. CEMS system is provided to stacks of Kiln-Raw Mills, Coal Mills, Cement Mills and Clinker Cooler and CEMS data is transmitted to CPCB as well as MPPCB website. The emission from above mentioned stacks is below 30 mg/Nm3. Four Online Continuous Ambient Air Quality Monitoring stations are installed and online data of the same is connected with CPCB and MPPCB website. Copy of stack emission and AAQM data is provided to MOEF&CC, CPCB and MPPCB through six monthly compliance reports regularly. Report on Stack emission and AAQM is enclosed as **Annexure – 1**.

ii.	The National Ambient Air Quality Standards issued by the ministry vide G.S.R. No.826 (E) dated 16th November, 2009 should be followed.	Being followed. We are following standards of National Ambient Air Quality. AAQ reports are enclosed as **Annexure – 1**.
iii.	Gaseous emission levels including fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the ministry and regularly monitored. Guidelines/code of practice issued by the CPCB should be followed.	Being followed. In the existing cement plant, all the stacks are equipped with high efficiency pollution control equipment. The SNCR system is installed for controlling NOx emissions from Kiln-Raw Mill stacks. CEMS system is provided for continuous monitoring of gaseous emissions from said stacks. The online data connectivity of CEMS to CPCPB/MPPCB website is also done. Fugitive emissions are controlled at source itself by installing dedusting filters at transfer points, all conveyors are covered, all raw material is stored in closed shed. Internal roads are concreated and thick green belt is developed along the roads. The gaseous emissions and fugitive emissions are well within the stipulated standards.
iv.	The company shall install adequate dust collection and extraction system to control fugitive dust emission at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stock pile system shall be provided. All conveyers should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides cement. Fly ash and Clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	Being followed. For the existing plant, Closed storages / silos for clinker, Fly ash, Gypsum and Cement are being used. Bag filters / Cassette filters have been installed at all material transfer points. Fly ash is transported pneumatically and stored in closed silos. All conveyors are fully covered with GI sheets and BDC's / P.F. are provided at all transfer points.
v.	Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul roads, loading and unloading points, transfer points and other vulnerable areas. It shall be insured that the ambient air quality parameters conforms to the norms prescribed by the Central Pollution Control Board in this regard.	Being followed. All the roads within the plant premises are made cemented & provided regular water spray on the roads. Water spray arrangement on raw materials at identified locations like Limestone, gypsum, coal & laterite are done regularly. A thick green belt is developed along the roads. Vehicle speed is limited to 20 Km/Hr inside the plant premises to minimize fugitive emissions. Extreme care is being given for housekeeping. Always ensure that the fugitive emission is within the prescribed limits.

vi.	Measures shall be undertaken to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and should not be over loaded. Vehicular emissions should be regularly monitored.	The major raw material for cement manufacturing is Lime stone which is transported through belt conveyor from our captive lime stone mines to cement plant. The conveyor is fully covered and provided with bag filters/pocket filters at transfer points. Other raw materials/Products are mainly transported through rail and to few extents by road in covered vehicle. Our unit have better rail and road connectivity with all major cities in MP State. Fly ash is transported in closed tanker and stored in closed silos pneumatically. Vehicular emissions are monitored on regular basis. Reports enclosed as **Annexure-2**. No vehicle is over loaded for transportation of raw materials or products. Optimum speed of the vehicle is maintained within the plant premises.
vii.	Total ground water requirement for the cement plant shall not exceed 576 m3/day and necessary permission for the drawl shall be obtained. All the treated waste water should be recycled and reused in the process and / or for dust suppression and green belt development and other plant related activities etc. No process waste water shall be discharged outside the factory premises and zero discharge should be adopted.	Zero discharge outside company premises is followed. No industrial waste water is generated. The waste water generated from domestic uses is treated in Sewage Treatment Plant and reused for plantation in plant and colony premises. Water requirement is fulfilled from our rain water harvested in mine out pit. No ground water withdrawal is done however, if required necessary permissions shall be obtained for extraction of ground water.
viii.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Being followed. For the rain water harvesting, we have 03 ponds in our plant of water storage capacity – 2.50 lacs KL and in Mines we have two rain water reservoir of capacity – 32.0 lacs KL. Total water requirement for the existing plant after expansion are fulfilled from our rain water reservoirs. Photographs of Rain water harvesting ponds are enclosed as **Annexure 3**
iv.	All the bag filter dust, raw meal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Used oil should be sold to authorize recyclers/re processors only.	Being followed. All the dust from bag filters, Bag House or ESP is recycled to the process and reused at appropriate stage. Used oil is sold to the authorized recyclers only having valid authorization from CPCB/MPPCB and annual returns are filed accordingly.

x.	Green belt shall be developed in at least 33% area in around the cement plant as per the CPCB guidelines to mitigate the efforts of air emissions in consultations with local DFO.	Being followed. Out of the total plant area (499.87 Acres), 33.21% (166 Acres) area has been developed under green belt/ plantation. Additional 4% (20 Acres) is being developed under green belt / plantation in future. Local plant species are given preference in plantation. The saplings are parched from District Forest Office and suggestions from DFO are implemented for plantation activities
xi.	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.	Being followed 5% of the total cost of expansion project i.e. Rs.6.75 crores had been earmarked for Enterprise Social Commitment. Time bound action plan for implementation of CSR initiatives is followed. Details of the CSR expanses for the year **2020-21** is enclosed as **Annexure-4**
xii.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile, toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	Temporary housing with necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. were provided during construction work. Project expansion work has been completed. Now we have removed all the temporary structures.
B.	**General conditions**	
i.	The project authorities must strictly adhere to the stipulations made by the Madhya Pradesh Pollution Control Board and the State Government.	Being followed. All conditions stipulated in consent issued by Madhya Pradesh Pollution Control Board are being followed.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forest.	Noted. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest & climate Change.
iii.	The gaseous emissions from various process units shall conform to the load/mass-based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	We are following the guidelines / norms laid down by the M.P. Pollution Control Board time to time and assure that the emissions (Dust and gaseous) are within the stipulated standards of MPPCB. Continuous emission Monitoring System (CEMS) is provided to all process and major stacks and online data connectivity with CPCB/MPPCB server is also done.
iv.	At least four ambient air quality monitoring stations should be established in the down ward direction as well as where maximum ground level concentration of PM10, SO2 and NOX are anticipated in consultation with the SPCB. Data on ambient air quality and stack	Being followed. As per NAAQ guidelines, Ambient Air Quality is being monitored at four locations of one is in downwind direction. We have also installed two continuous ambient Air Quality Monitoring Stations and online data

	emission shall be regularly submitted to this Ministry including its Regional Office at Bhopal and the SPCB/ CPCB once in six months.	connectivity is established with CPCB/MPPCB website. The Ambient Air Quality Monitoring and Stack emission data are enclosed as **Annexure – 1.**
v.	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) Dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	Being followed. There is no generation of effluent from Cement manufacturing process. The domestic waste water is treated through Sewage treatment Plant and treated water is used for green belt development in plant and colony. There is no discharge of untreated waste water outside the company premises.
vi.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (daytime) and 70 dBA (night time).	Being followed. In the existing cement plant, following measures is already adopted: ➢ Proper encasement of noise generating sources is done to control the noise level below 75 dB(A). ➢ Machine 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. ➢ Thick green belt is developed all along the internal roads and boundary wall. ➢ Regular monitoring of noise level is being done. ➢ Report on Ambient Noise levels is enclosed as ***Annexure 5***
vii.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Being followed. In the existing cement plant, we have Hospital and Dispensary for regular checkup of employees and records are being maintained as per the factory act.
viii.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Being followed. We have already adopted rain water harvesting in the plant, colony and Mines area. We have 03 ponds in our plant of water storage capacity – 2.50 lacs KL and in Mines we have two rain water reservoir of capacity – 32.0 lacs KL. Total water requirement for the existing plant after expansion are fulfilled from our rain water reservoirs. Photographs of Rain water harvesting ponds are enclosed as **Annexure 3**
ix.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socioeconomic	Being followed. The environmental safeguards and protection measures are followed as given in EIA/EMP for controlling of emissions, and safeguarding Air, Water Noise, Soil and flora and fauna.

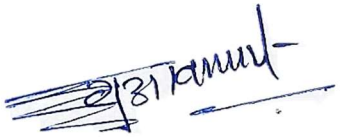
	development activities in the surrounding villages like community development programs, educational programmes, drinking water supply and health care etc.	Under CSR activity, company has given prime importance for socioeconomic development by developing skills of local youth, formation of Self-Help Groups for women empowerment, up gradation of educational system by installing Digital class room facility, Supply of fresh and safe drinking water, better sanitation and health facility etc. in nearby villages. The details expenditure on CSR activities is given in ***Annexure 4.***
x.	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the regional office of the Ministry at Bhopal.	Being followed. Total cost of the project – 135 crores Cost for Environmental Protection for the proposed cement expansion • Capital cost - 3.58 crores • Recurringcost-54.0Lacs/ annum
xi.	A copy of clearance letter shall be sent by the proponent to the concerned Panchayat, Zila Parishad/Municipal Corporation. The clearance letter shall also be put on the web site of the company by the proponent.	Already implemented. A copy of clearance letter was sent to the Panchayat, Zila Parishad/Municipal Corporation. The clearance letter was also put on the web site of the company.
xii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on Environment their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Bhopal. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOX (ambient levels as well as stack emissions).	Being followed. The compliance reports on EC conditions along with monitoring reports are available on company website with following URL: **http://www.birlacorporation.com** The same is also shared with RO, MoEF &CC, Bhopal, RO CPCB, Bhopal, HO, MPPCB, Bhopal & RO, MPPCB, Satna on six monthly basis.
xiii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of the Ministry at Bhopal/CPCB/SPCB shall monitor the stipulated conditions.	Being followed.

xiv.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF at Bhopal by e-mail.	Being followed. We are regularly submitting the Environmental Statement Report of the existing cement plant to CPCB & SPCB. Environmental Statement Report for the year 2020-21 is enclosed as ***Annexure-6***. The compliance reports on EC conditions along with monitoring reports are available on company website with following URL: **http://www.birlacorporation.com**
xv.	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http: /envfor.nic.in	Already implemented. Copy of newspaper publication of accorded Environmental Clearance is enclosed as ***Annexure 7***
xvi.	Project authorities shall inform the Regional Office as well as the Ministry, the date of commencing the land development work.	Project expansion work has been completed. We have obtained consent to operate from MPPCB, Bhopal, vide their letter no. 943 for water & 945 for air dated 21.02.2014. Also, our Air & Water consent has been renewed regularly from M.P. Pollution Control Board, Bhopal. Last CCA-Renewal granted on 21/10/2021 and validity up to 30/09/2022. Copy enclosed as Annexure-8.

We hope the above given information are in order.

With regards,

Yours faithfully,
for BIRLA CORPORATION LIMITED
Unit- Satna Cement Works



Sunil Kasture
Head-Sustainable Development

Copy to :

1. Director
   Ministry of Environment, Forest & Climate Change (GoI)
   Indira Paryavaran Bhawan
   Jorbagh Road, New Delhi- 110003

2. Member Secretary
   M.P. Pollution Control Board
   Paryavaran Parisar
   E- 5 / Arera Colony, Bhopal – 462 016

3. Regional Director
   Central Pollution Control Board,
   Paryavaran Parisar,
   E-5, Arera Colony, Bhopal (M.P.) - 462016

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CIN : U73100RJ2005PTC020304

TEST REPORT

Doc.No. CEGTH/QP/13/F-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. 4500394032, Dated 22/04/2020 & TRF Dated 21/06/2021
Material Identification with Details#	**Ambient Air Quality Monitoring:** 1 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**
I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Sulphur dioxide (SO_2)	IS:5182 (Pt-2)-2001 (RA 2017)	11.29	$\mu g/m^3$	80 (Max.)
2	Nitrogen dioxide(NO_2)	IS:5182 (Pt- 6)-2006 (RA 2017)	22.32	$\mu g/m^3$	80 (Max.)
3	Particulate Matter (PM 2.5)	IS:5182 (Part 24):2019	39.36	$\mu g/m^3$	60 (Max.)
4	Particulate Matter (PM 10)	IS:5182 (Pt 23)-2006 (RA 2017)	87.14	$\mu g/m^3$	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS:5182 (Part 25) :2018	3.87	$\mu g/m^3$	400 (Max.)
6	Ozone (as O_3)	IS: 5182 (Pt-9) 1974 (RA 2014)	3.01	$\mu g/m^3$	180 (Max.)
7	Carbon monoxide (as CO)	IS 5182 (Part -10) 1999	0.6	mg/m^3	4 (Max.)
8	Benzene (as C_6H_6)	IS: 5182 (Pt-11) 2006 (RA 2017)	BLQ (LOQ 1.0)	$\mu g/m^3$	5.0 (Max.)
9	Benzo(a)Pyrene (BaP)	IS: 5182 (Pt-12) 2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m^3	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	2.97	ng/m^3	20.0 (Max.)
11	Arsenic (as As)		0.61	ng/m^3	6.0 (Max.)
12	Lead (as Pb)		0.11	$\mu g/m^3$	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

Reviewed By

Vijay Chejara
(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 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 plastic sample, unless otherwise specified in applicable standards/regulatory requirement.
- Sample(s) not drawn by M/S CEG TH & RC, unless specified in the report. Samples received at CEGTH & RC Pvt. Ltd., Jaipur.

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CIN : U73100RJ2005PTC020304

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:** 1 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-460-299-DT3-2014M 626-DTE-2016

RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Sulphur dioxide (SO_2)	IS:5182 (Pt-2)-2001 (RA 2017)	12.89	$\mu g/m^3$	80 (Max.)
2	Nitrogen dioxide(NO_2)	IS 5182 (Pt- 6)-2006 (RA 2017)	27.82	$\mu g/m^3$	80 (Max.)
3	Particulate Matter (PM 2.5)	IS-5182 (Part 24) 2019	35.47	$\mu g/m^3$	60 (Max.)
4	Particulate Matter (PM 10)	IS 5182 (Pt 23)-2006 (RA 2017)	82.28	$\mu g/m^3$	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS 5182 (Part 25) :2018	2.49	$\mu g/m^3$	400 (Max.)
6	Ozone (as O_3)	IS: 5182 (Pt-9) 1974 (RA 2014)	3.01	$\mu g/m^3$	180 (Max.)
7	Carbon monoxide (as CO)	IS 5182 (Part -10) 1999	0.07	mg/m^3	4 (Max.)
8	Benzene (as C_6H_6)	IS: 5182 (Pt-11) 2006 (RA 2017)	BLQ (LOQ 1.0)	$\mu g/m^3$	5.0 (Max.)
9	Benzo(a)Pyrene (BaP)	IS: 5182 (Pt-12) 2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m^3	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	2.02	ng/m^3	20.0 (Max.)
11	Arsenic (as As)		1.21	ng/m^3	6.0 (Max.)
12	Lead (as Pb)		0.04	$\mu g/m^3$	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

Reviewed By

Vijay Chejara
(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 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 standard/regulatory requirement.
- Sample(s) not drawn by M/S CEG TH & RC, unless specified in the report. Samples tested at CEGTH & RC Pvt Ltd. Jaipur.

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CIN : U73100RJ2005PTC020304

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 Ghantang 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-TTT-2016

RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Sulphur dioxide (SO_2)	IS 5182 (Pt-2)-2001 (RA 2017)	7.43	$\mu g/m^3$	80 (Max.)
2	Nitrogen dioxide(NO_2)	IS 5182 (Pt- 6)-2006 (RA 2017)	21.43	$\mu g/m^3$	80 (Max.)
3	Particulate Matter (PM 2.5)	IS 5182 (Part 24) 2019	34.81	$\mu g/m^3$	60 (Max.)
4	Particulate Matter (PM 10)	IS 5182 (Pt 23)-2006 (RA 2017)	73.29	$\mu g/m^3$	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS 5182 (Part 25): 2018	2.32	$\mu g/m^3$	400 (Max.)
6	Ozone (as O_3)	IS: 5182 (Pt-9) 1974 (RA 2014)	3.03	$\mu g/m^3$	180 (Max.)
7	Carbon monoxide (as CO)	IS 5182 (Part -10) 1999	0.5	mg/m^3	4 (Max.)
8	Benzene (as C_6H_6)	IS: 5182 (Pt-11) 2006 (RA 2017)	BLQ (LOQ 1.0)	$\mu g/m^3$	5.0 (Max.)
9	Benzo(a)Pyrene (BaP)	IS: 5182 (Pt-12) 2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m^3	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	2.76	ng/m^3	20.0 (Max.)
11	Arsenic (as As)		0.45	ng/m^3	6.0 (Max.)
12	Lead (as Pb)		0.06	$\mu g/m^3$	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

Reviewed By

Vijay Chejara
(G.M. Lab Operation)
Authorized Signatory

- Total liability of the 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 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. Samples tested at CEGTH & RC Plot Ltd., Jaipur.

CEG TEST HOUSE
AND RESEARCH CENTRE PVT. LTD.

Tel. : 91-141-4046599, Fax : 91-141-2751606
info@cegtesthouse.com | www.cegtesthouse.com
CIN : U73100RJ2005PTC020304

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/APM-809-DTP-2011, 321-DTP-2010

RESULTS

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Sulphur dioxide (SO_2)	IS:5182 (Pt-2)-2001 (RA 2017)	8.01	$\mu g/m^3$	80 (Max.)
2	Nitrogen dioxide(NO_2)	IS:5182 (Pt- 6)-2006 (RA 2017)	17.23	$\mu g/m^3$	80 (Max.)
3	Particulate Matter (PM 2.5)	IS 5182 (Part 24):2019	29.23	$\mu g/m^3$	60 (Max.)
4	Particulate Matter (PM 10)	IS 5182 (Pt 23)-2006 (RA 2017)	72.01	$\mu g/m^3$	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS:5182 (Part 25) :2018	3.89	$\mu g/m^3$	400 (Max.)
6	Ozone (as O_3)	IS: 5182 (Pt-9) 1974 (RA 2014)	4.25	$\mu g/m^3$	180 (Max.)
7	Carbon monoxide (as CO)	IS 5182 (Part -10) 1999	0.6	mg/m^3	4 (Max.)
8	Benzene (as C_6H_6)	IS: 5182 (Pt-11) 2006 (RA 2017)	BLQ (LOQ 1.0)	$\mu g/m^3$	5.0 (Max.)
9	Benzo(a)Pyrene (BaP)	IS: 5182 (Pt-12) 2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m^3	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	2.75	ng/m^3	20.0 (Max.)
11	Arsenic (as As)		0.72	ng/m^3	6.0 (Max.)
12	Lead (as Pb)		0.06	$\mu g/m^3$	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

Reviewed By

Vijay Chejara
(G.M. Lab Operation)
Authorised Signatory

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- #Information provided by the Customer.
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- From the date of issue of test report, the sample shall be stored, for 1 month in case of non perishable items, upto 1 week for perishable items, 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 Pratap Nagar.

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CIN : U73100RJ2005PTC020304

TEST REPORT

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

Report No.: CEG/EN/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#	Randhagarh Colony Krishi 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/236 & Calibrated

RESULTS:-

S. No.	Parameters	Method of Test	Results	Unit	NAAQS**
I. Chemical Testing:-					
1. Atmospheric Pollution:-					
1	Sulphur dioxide (SO_2)	IS:5182 (Pt-2)-2001 (RA 2017)	8.01	$\mu g/m^3$	80 (Max.)
2	Nitrogen dioxide(NO_2)	IS:5182 (Pt- 6)-2006 (RA 2017)	17.59	$\mu g/m^3$	80 (Max.)
3	Particulate Matter (PM 2.5)	IS:5182 (Part 24) 2019	41.55	$\mu g/m^3$	60 (Max.)
4	Particulate Matter (PM 10)	IS:5182 (Pt 23)-2006 (RA 2017)	92.12	$\mu g/m^3$	100 (Max.)
5	Ammonia (as Total Ammonia-N)	IS:5182 (Part 25) 2018	1.9	$\mu g/m^3$	400 (Max.)
6	Ozone (as O_3)	IS: 5182 (Pt-9) 1974 (RA 2014)	2.59	$\mu g/m^3$	180 (Max.)
7	Carbon monoxide (as CO)	IS 5182 (Part -10) 1999	0.4	mg/m^3	4 (Max.)
8	Benzene (as C_6H_6)	IS: 5182 (Pt-11) 2006 (RA 2017)	BLQ (LOQ 1.0)	$\mu g/m^3$	5.0 (Max.)
9	Benzo(a)Pyrene (BaP)	IS: 5182 (Pt-12) 2004 (RA 2014)	BLQ (LOQ 0.5)	ng/m^3	1.0 (Max.)
10	Nickel (as Ni)	USEPA Method IO 3.5 1999	1.90	ng/m^3	20.0 (Max.)
11	Arsenic (as As)		0.09	ng/m^3	6.0 (Max.)
12	Lead (as Pb)		0.07	$\mu g/m^3$	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.Goverdhan Meena) as per sampling method CEGTH/SOP/C/20

End of the Report

Reviewed By

Vijay Chejara
(G.M. Lab Operation)
Authorised Signatory

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

CEG TEST HOUSE
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info@cegtesthouse.com | www.cegtesthouse.com
CIN : U73100RJ2017PTC060304

DATE-27/06/2021

TO WHOM IT MAY CONCERN

It is certified that the environmental monitoring work is done for the 2nd quarter in June 2021 (from 21 June to 26 June 2021) to cross check performance of online system (opacity meter and gas analyzer) installed at M/S –BIRLA CORPORATION limited, Unit- 27 MW TPP Satna Cement Works, Satna(M.P) as per work order no- 4560394032 dated-22.04.2020

On the basis of our results, we conclude that all the online system shows the correct values of the point source flue gas emission in 27 MW CPP PLANT.

The details of the online devices installed on stack are as follows:

Sr. No	Name of Stack	Parameters	Unit	Serial No	Make	Model	Range	Unit	Standards (mg/nm3)	Measured Value (mg/nm3)
1.	27MW TPP BOILER ESP STACK	PM	mcu	9378550	SICK	FW-300	0-80	Mg/nm3	50	31.60
		SO_2		716363	SICK MAHEK	S710-MULTAR	0-1500	Mg/nm3	600	279.68
		NO_X						Mg/nm3	300	182.19

(Authorized Signatory)

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CIN : U73100RJ2005PTC020304

DATE-27/06/2021

TO WHOM IT MAY CONCERN

It is certified that the environmental monitoring work is done for the 2nd quarter of June 2021 (from 21st June to 26th June 2021) to cross check performance of online system (opacity meter and gas analyzer) installed at M/S –BIRLA CORPORATION limited, Unit-Satna Cement Works, Satna(M.P) as per work order no- 4560394032 dated-22.04.2020. On the basis of our results, we conclude that all the online system shows the correct values of the point source flue gas emission **in SCW PLANT LINE NO-1.**

The details of the online devices installed on stack are as follows:

Sr. No	Name of Stack	Parameters	Unit	Serial No	Make	Model	Range	Unit	Standards (mg/nm3)	Measured Value (mg/nm3)
1.	Raw Mill/ Klin Bag house Stack	PM	mcu	11058807	SICK	DHT-50	0-200	Mg/nm3	30	12.18
		SO_2		715270	SICK MAHEK	S710-MULTAR	0-2000	Mg/nm3	100	14.19
		NO_X							800	363.82
2.	Klin Bag house stack	PM	mcu	11058807	SICK	DHT-50	0-100	Mg/nm3	30	12.35
		SO_2		715270	SICK MAHEK	S710-MULTAR	0-2000	Mg/nm3	100	21.41
		NO_X							800	297.49
3.	Cooler ESP Stack	PM	mcu	11058804	SICK	DHT50	0-200	Mg/nm3	30	16.55
4.	Coal Ball Mill BDC	PM	mcu	12308510	SICK	SP100	0-100	Mg/nm3	30	8.99
5.	VCM Mill BDC Stack	PM	mcu	12308508	SICK	SP100	0-100	Mg/nm3	30	16.89
6.	C Mill-1 /BDC Stack	PM	mcu	12308509	SICK	SP100	0-100	Mg/nm3	30	21.47
7.	C Mill-1A /BDC Stack	PM	mcu	12308515	SICK	SP100	0-100	Mg/nm3	30	15.59

For CEG Test House and Research Centre Pvt. Ltd

(Authorized Signatory)

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CIN : U73100RJ2017PTC060304

DATE-27/06/2021

TO WHOM IT MAY CONCERN

It is certified that the environmental monitoring work is done for the 2nd quarter of June 2021 (from 21 June to 26 June 2021) to cross check performance of online system (opacity meter and gas analyzer) installed at AM/S –BIRLA CORPORATION limited, Unit-Satna Cement Works, Satna(M.P) as per work order no- 4560394032 dated-22.04.2020 On the basis of our results, we conclude that all the online system shows the correct values of the point source flue gas emission in BVC PLANT LINE NO-2.

The details of the online devices installed on stack are as follows:

Sr. No	Name of Stack	Parameters	Unit	Serial No	Make	Model	Range	Unit	Standards (mg/nm3)	Measured Value (mg/nm3)
1.	Raw Mill/ Kiln ESP Stack.	PM	mcu	12308507	SICK	DHT-50	0-200	Mg/nm3	30	22.03
		SO_2		715269	SICK MAHEK	S710-MULTAR	0-2000	Mg/nm3	100	28.58
		NO_X							800	390.42
2.	Kiln Bag House Stack	PM	mcu	10018544	SICK	DHT-50	0-100	Mg/nm3	30	21.66
		SO_2		715271	SICK MAHEK	S710-MULTAR	0-2000	Mg/nm3	100	25.12
		NO_X							800	414.12
3.	Cooler ESP Stack	PM	mcu	7078720	SICK	DHT50	0-200	Mg/nm3	30	21.93
4.	Coal Ball Mill BDC stack.	PM	mcu	12308504	SICK	SP100	0-100	Mg/nm3	30	13.60
5.	VCM Mill BDC Stack.	PM	mcu	12308505	SICK	SP100	0-100	Mg/nm3	30	12.28
6.	C Mill-1 /BDC Stack	PM	mcu	12308516	SICK	SP100	0-100	Mg/nm3	30	20.32
7.	C Mill-2BDC Stack	PM	mcu	12308512	SICK	SP100	0-100	Mg/nm3	30	16.17

(Authorized Signatory)

Annexure-2

REPORT DATE :12/05/2021

DETAILED DIESEL REPORT

DEALER CODE : BIRLA/01

DEALER NAME : BIRLA CORPORATION LIMITED UNIT SATNA

ADDRESS : BIRLA CORPORATION LIMITED UNIT SATNA CEMENT

For Duration from :MM/DD/YYYY 05/12/2021 to 11/11/2021 PUCC Checked From: 600006747 To: 600008583

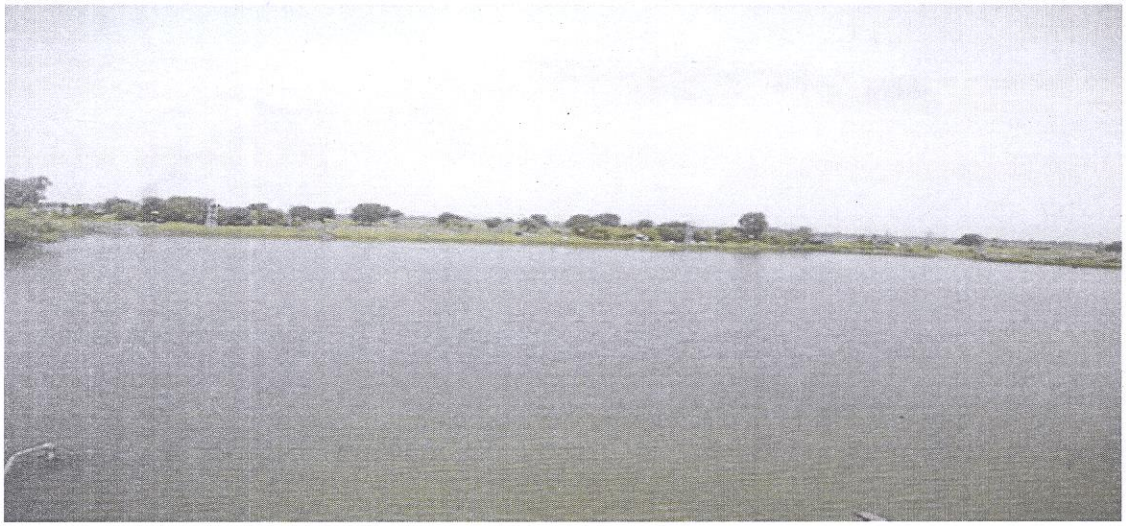
PUC No.	V. Reg. No.	Test Date Time	Valid UpTo	Make	Model	Category	Reg. Year	RPM Min.	RPM Max.	Oil Temp.	% HSU	K Value	Result
600006764	MP19CC0157	05/12/2021 05:46AM	11/11/2021	MAHINDRA & MAHINDRA	SCORPIO	CAR	28/02/2019	940	2000	59	20.61%	0.54k	PASS
600006763	MP19 L - 0261	05/12/2021 05:39AM	11/11/2021	TATA	FIRE BRIGADE TATA	FIRE BRIGADE TRUCK 1613	00/00/2007	790	4460	49	31.67%	0.89k	PASS
600006767	MP19P0264	05/12/2021 05:49AM	11/11/2021	TATA	TATA BUS	BUS	30/10/2007	570	4820	75	37.32%	1.09k	PASS
600006769	MP19P0409	05/12/2021 06:52AM	11/11/2021	TATA	TATA BUS	BUS	16/11/2009	910	3330	42	50.35%	1.63k	PASS
600006781	MP19GA0448	05/12/2021 06:23AM	11/11/2021	TATA	TATA 207	TATA 207 MINI TRUCK	27/09/2007	880	3210	59	54.52%	1.83K	PASS
600006752	MP19CA1463	05/12/20201 05:25AM	11/11/2021	TOYOTA	INNOVA	CAR	28/02/2007	620	4410	63	47.93%	1.52K	PASS
600006757	MP19CB1502	05/12/2021 05:29AM	11/11/2021	HONDA	MOBILIO	CAR	28/02/2014	710	4380	70	14.27%	0.36K	PASS
600006755	MP19CB1547	05/12/2021 05:28AM	11/11/2021	HONDA	MOBILIO	CAR	28/02/2014	700	2790	46	27.43%	0.75K	PASS
600006765	MP19CB1607	05/23/2021 05:48AM	11/11/2021	TOYOTA	INNOVA	CAR	28/02/2014	740	3890	48	26.14%	0.67K	PASS
600008577	MP19CB1608	05/05/2021 05:08AM	11/11/2021	TOYOTA	COROLLA ALTIS	CAR	19/02/2015	650	4980	70	25.86%	0.70K	PASS
600006774	MP19CB1866	05/12/2021 06:06AM	11/11/2021	MAHINDRA & MAHINDRA	JEEP	CAR	04/06/2015	800	2360	66	45.60%	1.42K	PASS
600006782	MP19GA2325	05/12/2021 06:26AM	11/11/2021	TATA	TATA ACE	TATA 207 MINI TRUCK	12/12/2013	700	4340	68	39.32%	1.16K	PASS

600006770	MP19CC2369	05/12/2021 05:53AM	11/11/2021	MAHINDRA & MAHINDRA	SCORPIO	CAR	23/01/2019	710	4400	42	21.59%	0.57K	PASS
600006754	MP19CA2522	5/12/2021 05:27AM	11/11/2021	MAHINDRA & MAHINDRA	SCORPIO	CAR	28/02/2008	720	2570	63	34.91%	1.00K	PASS
600006779	MP19CA2523	05/12/2021 06:16AM	11/11/2021	MAHINDRA & MAHINDRA	SCORPIO	CAR	23/01/2008	790	3440	49	52.57%	1.29K	PASS
600006753	MP19CA2562	05/12/2020 05:32AM	11/11/2021	MAHINDRA & MAHINDRA	SCORPIO	CAR	28/02/2008	740	4750	56	42.60%	1.29K	PASS
600006762	MP19CA2582	05/12/2020 05:37AM	11/11/2021	TATA MOTORS	INDIGO XL	CAR	23/01/2014	690	3520	58	51.49%	1.68k	PASS
600008580	MP19CB2782	05/12/2021 05:12AM	11/11/2021	MARUTI SUZUKI	SWIFT LXI SPORTS	CAR	11/10/2015	970	4600	71	39.68%	1.18K	PASS
600006756	MP19GA2810	5/12/2021 05:28AM	11/11/2021	GENERAL MOTORS	TAVERA	AMBULANCE VAN	15/02/2014	800	2270	54	44.62%	1.37K	PASS
600008578	MP19CB2907	05/12/2021 5:09AM	11/11/2021	HONDA	HONDA CITY	CAR	12/10/2015	650	4980	70	25.86%	0.70K	PASS
600008579	MP19CB2973	05/12/2021 05:11AM	11/11/2021	MARUTI	SWIFT LXI SPORTS	CAR	18/12/2015	910	2580	78	32.22%	0.90K	PASS
600008581	MP19CB2982	05/12/2021 05:12AM	11/11/2021	MARUTI	SWIFT LXI SPORTS	CAR	18/12/2015	910	2580	78	32.22%	0.90K	PASS
600006751	MP19CA3448	05/12/2021 05:24AM	11/11/2021	MAHINDRA & MAHINDRA	SCORPIO	CAR	23/01/2009	640	4470	74	50.36%	1.63k	PASS
600008583	MP19CA4724	05/12/2021 05:15AM	11/11/2021	MARUTI	SX4	CAR	10/07/2010	910	4900	48	24.10%	0.64K	PASS
600006760	MP19CA4758	05/12/2021 05:32AM	11/11/2021	MAHINDRA & MAHINDRA	SCORPIO	CAR	20/10/2010	580	2000	55	35.35%	1.01K	PASS
600008582	MP19CA4796	05/12/2021 05:14AM	11/11/2021	MARUTI	SX4	CAR	26/10/2010	910	2580	78	32.22%	0.90K	PASS
600006766	MP19CA4896	05/12/2021 05:48AM	11/11/2021	TOYOTA	INNOVA	CAR	23/01/2010	980	4920	79	39.58%	1.17k	PASS

600006768	MP19CA4945	05/12/2021 05:50AM	11/11/2021	MARUTI	SWIFT VDI	CAR	02/07/1905	930	3500	55	36.11%	1.04k	PASS
600006771	MP19CA4946	05/12/2021 05:55AM	11/11/2021	MARUTI	SWIFT	CAR	28/02/2010	650	4730	52	39.69%	1.18K	PASS
600006772	MP19CA4952	05/12/2021 05:56AM	11/11/2021	MARUTI	SWIFT	CAR	28/02/2010	760	3200	52	54.36%	1.82K	PASS
600006773	MP19CA7076	05/12/2021 05:57AM	11/11/2021	TATA MOTORS	INDICA	CAR	21/05/2012	940	2260	67	42.99%	1.31K	PASS
600006749	MP19CA7115	05/12/2021 05:20AM	11/11/2021	MAHINDRA & MAHINDRA	XYLO	CAR	28/02/2013	660	4170	64	34.02%	0.97K	PASS
600006758	MP19CA7689	5/12/2021 05:30AM	11/11/2021	TATA MOTORS	INDIGO MANZA AC	CAR	02/07/2012	590	2400	74	53.96%	1.80K	PASS
600006777	UP33X7800	12/05/2021 06:11AM	11/11/2021	MARUTI	SWIFT DIZER VDI	CAR	27/9/2012	650	2760	62	48.11%	1.53K	PASS
600006750	MP19CA9676	05/12/2021 05:21AM	11/11/2021	FORD	ECO SPORTS	CAR	28/02/2009	620	3470	65	23.54%	0.62k	PASS
600006747	MP19GA1046	05/12/2021 05:04AM	11/11/2021	MAHINDRA & MAHINDRA	BOLERO CAMPAR	MINI TRUCK	14/10/2010	670	2660	56	38.65%	1.14K	PASS
600006780	MP19CB6624	5/12/2021 06:21AM	11/11/2021	MAHINDRA & MAHINDRA	BOLERO EX BS4	JEEP	31/08/2017	650	4860	47	46.13%	1.50K	PASS
600006775	MP19CA9591	05/12/2021 06:07AM	11/11/2021	MAHINDRA & MAHINDRA	BOLERO EX BS3	JEEP	13/12/2013	830	3120	65	40.68%	1.21K	PASS
600006778	MP19CA8438	05/12/2020 06:13AM	11/11/2021	MAHINDRA & MAHINDRA	BOLERO EX BS3	JEEP	18/02/2013	750	4930	44	33.33%	1.03k	PASS
600006776	MP19L0369	05/12/2021 06:08AM	11/11/2021	TATA MOTORS	WINGER BS2	JEEP	14/10/2009	690	4740	58	49.25%	1.58K	PASS
600006783	MP19CC2563	05/12/2021 06:32AM	11/11/2021	RENAULT	DUSTER BS4	CAR	03/12/2019	620	3650	70	22.64%	0.60K	PASS
											TOTAL :		41

BVC POND-I

BVC POND-II



BVC POND-III

Annexure-4

BIRLA CORPORATION LTD. SATNA
SCW CSR BUDGET FY 2020-21

Sl. No.	Main Activities	Cumulative Budget 20-21
I	**HEALTH AND SANITATION**	
a	Eye checkup camps	0.18
b	Renovation of Anganwadi building in village	1.56
c	Mother & Child Care - to distribute baby kits/ medicines etc.	2.00
d	Distribution and Making of Mask during COVID	1.67
e	Awareness program & Health support to Schools, Anganwadis, other Govt. buildings. (Disinfecting, sanitizing & distribute of PPE kits)	0.70
f	Support to Udhav Dham Sewa Samiti for Eye camp	0.10
g	Distribution of Food packets for daily wages worker/labour	1.08
h	District Adminstration of Satna to fight against the CORONA COVID-19 pandemic, relief and rehabilitation work.	5.00
	TOTAL I	**12.30**
II	**WATER**	
a	Project on drinking water supply for nearby Villages Community	14.14
b	Construction of overhead tanks / enhancement of water storage in Village water bodies	0.98
	TOTAL II	**15.11**
III	**EDUCATION**	
a	Assistance for schools such as Infrastructure , Books , Bags, Uniforms, Computer, table and Benches for school children	1.34
b	Organising Sports & competition to motivate students	0.15
c	Support for quality of education through installation of Smart class in schools	4.17
d	School building/Toilets repair & renovation in village schools	4.26
e	Support for Setting up of Old Age Homes	1.42
	TOTAL III	**11.33**
IV	**LIVELIHOOD**	
a	Livelihood enhancement through Advanced agricultural training and Provision of livestock to villagers(Through BAIF)	26.80
	TOTAL IV	**26.80**
V	**RURAL INFRASTRUCTURE**	
d	Development of Rural infrastructure like construction of roads /Boundary wall/ community hall etc..	20.17
	TOTAL V	**20.17**
VI	**Others**	
a	District Administration work	0.15
b	Strengthening community Libraray centre in the villagers/Community	0.64
c	Support of Children Orphange at Satna	0.45
d	Promote of Rural Sports & national recogised Sports	0.30
e	Community Need Assessment in our area.	2.79
	TOTAL VI	**4.33**
	TOTAL I to VI	**90.05**

BIRLA CORPORATION LIMITED
P.O. BIRLA VIKAS
DIST. SATNA (M.P.)
485005
UNIT: SATNA CEMENT WORKS

Ultimate
ENVIROLYTICAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer		
To, **Birla Corporation Limited** **Unit-Satna Cement Works** **(A Unit of MP Birla Group)** **PO : Birla Vikas, Satna -485005,** **M.P. India**	REPORT NO	UES/TR/20-21/03516
	LAB REF NO	UES/20-21/N/03163
	DATE OF REPORT	23/12/2020
	DATE OF SAMPLING	15/12/2020 to 16/12/2020

SAMPLE DETAILS

MONITORING FOR	AMBIENT NOISE LEVEL MONITORING
CUSTOMER REF. NO. & DATE	4560448372, DATED :04.12.2020
SAMPLING LOCATION	CEMENT PLANT AMBIENT NOISE LEVEL
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION

TEST REPORT

LOCATION	UNIT	RESULT		CPCB LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
TELEPHONE EXCHANGE(EAST)	dB(A)	52.5	44.8	75	70
BVC BUILDING OFFICE(WEST)	dB(A)	69.8	52.4		
BVC GATE (NORTH)	dB(A)	69.2	51.8		
COAL GATE (SOUTH)	dB(A)	60.3	52.2		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- ***The use of the report for publication, arbitration or as legal dispute is forbidden.***
- ***Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.***
- ***This is for information as the party has asked for above test(s) only.***

PREPARED BY 23/12/2020

ULTIMATE ENVIROLYTICAL SOLUTIONS HDD-272, PHASE-3, KABIR NAGAR, RAIPUR (C.G.)

For **ULTIMATE ENVIROLYTICAL SOLUTIONS**

AUTHORIZED SIGNATORY 23/12/2020

----------End of the test report----------

Ultimate
ENVIROLYTICAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer		
To, **Birla Corporation Limited** **Unit-Satna Cement Works** **(A Unit of MP Birla Group)** **PO : Birla Vikas, Satna -485005,** **M.P. India**	REPORT NO	UES/TR/20-21/03520
	LAB REF NO	UES/20-21/N/03167
	DATE OF REPORT	23/12/2020
	DATE OF SAMPLING	15/12/2020 to 16/12/2020

SAMPLE DETAILS

MONITORING FOR	WORK ZONE NOISE LEVEL MONITORING
CUSTOMER REF. NO. & DATE	4560448372, DATED :04.12.2020
SAMPLING LOCATION	SCW PLANT WORK ZONE NOISE LEVEL
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION

TEST REPORT

LOCATION		UNIT	RESULT dB(A)
CEMENT MILL HOUSE	INSIDE	dB(A)	87.5
	OUTSIDE	dB(A)	86.4
NEAR RAW MILL VRC		dB(A)	89.8
NEAR BALL COAL MILL		dB(A)	82.5
NEAR CCR BUILDING		dB(A)	81.1
INSIDE RAW MILL COMPRESSOR HOUSE		dB(A)	82.1
INSIDE CEMENT MILL COMPRESSOR HOUSE		dB(A)	87.3
WHRS NEAR TURBINE		dB(A)	82.3
WHRS NEAR CONDENSER		dB(A)	83.8
WHRS NEAR COOLING TOWER		dB(A)	73.8
WHRS INSIDE CCR		dB(A)	73.8
WHRS OUTSIDE CCR		dB(A)	86.4
NEAR COAL VCM		dB(A)	89.5
NEAR VRPGM		dB(A)	87.7
INSIDE CCR		dB(A)	70.9
OUTSIDE CCR		dB(A)	80.5
NEAR DM PLANT		dB(A)	77.3

REMARKS: RESULTS ARE AS ABOVE

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Thakur 23/12/2020
PREPARED BY

ULTIMATE ENVIROLYTICAL SOLUTIONS HDD-272 PHASE-3 KABIR NAGAR RAIPUR (C.G.) RING ROAD NO.-2

For **ULTIMATE ENVIROLYTICAL SOLUTIONS**
23/12/2020
AUTHORIZED SIGNATORY

----------End of the test report----------

Ultimate
ENVIROLYTICAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer		
To, **Birla Corporation Limited** **Unit-Satna Cement Works** **(A Unit of MP Birla Group)** **PO : Birla Vikas, Satna -485005,** **M.P. India**	REPORT NO	UES/TR/20-21/03519
	LAB REF NO	UES/20-21/N/3166
	DATE OF REPORT	23/12/2020
	DATE OF SAMPLING	15/12/2020 to 16/12/2020

SAMPLE DETAILS

MONITORING FOR	WORK ZONE NOISE LEVEL MONITORING
CUSTOMER REF. NO. & DATE	4560448372, DATED : 04.12.2020
SAMPLING LOCATION	BVC PLANT NOISE LEVEL
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION

TEST REPORT

LOCATION		UNIT	RESULT dB(A)
CEMENT MILL HOUSE	INSIDE	dB(A)	88.9
	OUTSIDE	dB(A)	83.1
NEAR RAW MILL		dB(A)	85.1
NEAR BALL COAL MILL		dB(A)	82.1
NEAR CCR BUILDING		dB(A)	80.2
INSIDE RAW MILL COMPRESSOR HOUSE		dB(A)	88.8
INSIDE CEMENT MILL COMPRESSOR HOUSE		dB(A)	86.4
WHRS NEAR TURBINE		dB(A)	84.0
WHRS NEAR CONDENSER		dB(A)	80.5
WHRS NEAR COOLING TOWER		dB(A)	79.8
WHRS INSIDE CCR		dB(A)	77.4
WHRS OUTSIDE CCR		dB(A)	88.0
NEAR VRM		dB(A)	81.7
NEAR PET COKE MILL		dB(A)	86.2
ROPEWAY NORMAL		dB(A)	73.2
ROPEWAY UNLOADING		dB(A)	80.7
NEAR POLYCOM		dB(A)	83.9

REMARKS: RESULTS ARE AS ABOVE

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- *This is for information as the party has asked for above test(s) only.*

Thakur 23/12/2020
PREPARED BY

ULTIMATE ENVIROLYTICAL SOLUTIONS HDD-272, PHASE-3, NEAR J.P. CHOWK, RING ROAD NO.2, KABIR NAGAR, RAIPUR (C.G.)

For **ULTIMATE ENVIROLYTICAL SOLUTIONS**
23/12/2020
AUTHORIZED SIGNATORY

----------End of the test report----------

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

Ref No. : BCL/SCW/Env. Audit/ HO-MPPCB/2021-22/43

11.09.21

To,
The Member Secretary
M.P.Pollution Control Board
Paryavaran Parisar,
E-5, Arera Colony
BHOPAL (M.P.)-462016

Sub: Environmental Statement report for the financial year **2020-21**

Dear Sir,

Please find enclosed herewith the Environmental statement report prepared for the financial year **2020-21** as per the Government of India notification dated 13th March 1992.

With regards,

Yours faithfully,
For BIRLA CORPORATION LIMITED
UNIT- SATNA CEMENT WORKS

(R.K.Sinha)
Manager- Env. Control Cell

Encl.: As above.

c.c.to:
1) Member Secretary - CPCB
Parivesh Bhawan,
CBD-cum Office Complex
East Arjun Nagar, Delhi-110032

2) Regional Director (Central)
Central Pollution Control Board (CPCB)
Paryavaran Parisar,
E-5, Arera Colony,
BHOPAL (M.P.) – 462016

3) Regional Officer
M.P.Pollution Control Board,
Rewa Road, Near Maihar – Amarpatan by pass,
SATNA (M.P.) – 485001

[FORM – V]

ENVIRONMENTAL STATEMENT REPORT FOR THE FINANCIAL YEAR ENDING 31st MARCH-2021

Period 1st April-2020 to 31st March-2021

PART-A

1.	Name and address of the Owner/Occupier of the Industry	:	Birla Corporation Limited Unit: Satna Cement Works P.O. Birla Vikas Dist. Satna (M.P.)-485005 Phone – (07672) 412000-01
	Operation or process Industry category- Primary(STC Code)- Secondary(STC Code)-	:	Cement manufacturing by dry process
2.	Production capacity	:	Clinker -- 34.00 LTPA Cement -- 30.00 LTPA
3.	Year of establishment	:	Birla Vikas Cement – 1982 Satna Cement Works Conv. – 1989
4.	Date of last environmental statement report submitted	:	Environmental statement report for the financial year April – 2019 to March – 2020 has been submitted on 23.09.2020.

PART-B

Water and Raw Material Consumption

1.	Water consumption m^3/day	Cement	
	Process	Nil	
	Cooling	843.99	
	Domestic	820.90	
		Water consumption per unit of product	
	Name of products	During the previous financial year	During the current financial year
1.	Cement	0.0726 m^3/Tone	0.0781 m^3/Tone

Raw Material Consumption

			Consumption of raw material per unit of product	
	Name of Raw Materials	Name of products	During the previous financial year	During the current financial year
1.	Limestone	Cement	0.97/T	0.96/T
2.	Coal	Cement	0.10/T	0.09/T
3.	Iron ore	Cement	0.03/T	0.03/T
4.	Gypsum	Cement	0.03/T	0.03/T
5.	Pozzalona(Fly ash)	Pozzalonic cement	0.33/T	0.34/T

PART-C

Pollution discharges to environment/unit of out-puts (Parameter as specified in the consent issued)

7.	Pollutants	Quantity of Pollutants Discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	% of variation from prescribed standards with reasons.
a)	WATER :-			
	Industrial effluent	No industrial waste water generated		N.A.
	Domestic effluent	417.00 m^3/day	-	Domestic waste water is treated in STP of capacity 1080M^3/day. Treated water recycled for irrigation, gardening etc. It meets the prescribed standards laid down by MPPCB.
b)	AIR			
	RM / KILN ESP			
	(BVC)	0.1163 TPD 35.06 T/year	19.42 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/nm^3 laid by MPPCB
	COOLER (SCW + BVC)	0.2619 TPD 77.37 T/year	19.79 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/nm^3 laid by MPPCB
1.	CM-1A-SCW	0.0139 TPD 3.46 T/year	13.41 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/nm^3 laid by MPPCB
2.	CM-1-SCW	0.0183 TPD 4.42 T/year	15.27 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/nm^3 laid by MPPCB
3.	COAL BALL MILL-SCW	0.0164 TPD 4.24 T/year	13.22 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/nm^3 laid by MPPCB
4.	COAL VRM-SCW	0.0156 TPD 1.00 T/year	13.82 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/nm^3 laid by MPPCB
5.	CM-1 BVC	0.0107 TPD 2.87 T/year	14.51 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/nm^3 laid by MPPCB
6.	CM-2-BVC	0.0089 TPD 1.89 T/year	13.45 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/nm^3 laid by MPPCB
7.	COAL BALL MILL-BVC	0.0196 TPD 3.18 T/year	13.19 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/nm^3 laid by MPPCB
8.	COAL VRM-BVC	0.0196 TPD 0.3846 T/year	14.16 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/Nm^3 laid by MPPCB
9.	Kiln Bag House-SCW	0.0544 TPD 15.74 T/year	16.11 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/Nm^3 laid by MPPCB
10.	Kiln Bag House-BVC	0.1431 TPD 43.16 T/year	15.81 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/Nm^3 laid by MPPCB
11	RM/Kiln Bag House SCW	0.1358 TPD 39.29 T/year	13.76 Mg/Nm^3	We are meeting the prescribed emission standards 30 mg/Nm^3 laid by MPPCB

PART-D

Hazardous wastes (As specified under Hazardous and other wastes (Management and Tran's boundary Movement) Rules, 2016

		Total Quantity (kg)	
	Hazardous Wastes	During the previous financial year	During the current financial year (Apr,2020 to March, 2021)
1.	From process	Furnace oil sludge NIL	NIL
		Used lubricating oil - 17.80 MT	31.60 MT
		Used grease - 12.00 MT	8.16 MT
2.	From pollution control facilities	N.A.	N.A.

PART-E

Solid wastes

		Total Quantity	
		During the previous financial year	During the current financial year
a)	From process		
	Cement section	No solid waste generated	No solid waste generated
b)	From Pollution control facilities		
1	RM/Kiln ESP BVC	Raw meal - 61909.03 Ts	Raw meal - 68432.21 Ts
2	Kiln Bag House-SCW	Raw meal - 17569.21 Ts	Raw meal - 22434.73 Ts
3	Kiln Bag House –BVC	Raw meal - 92080.68 Ts	Raw meal - 87323.76 Ts
4	Cooler ESP SCW	Clinker dust - 67173.84 Ts	Clinker dust - 19064.66 Ts
5	Cooler ESP BVC	Clinker dust - 76555.86 Ts	Clinker dust - 14256.83 Ts
6	CM-1A SCW	Cement - 18734.91 Ts	Cement - 29656.69 Ts
7	CM-1 SCW	Cement - 78176.65 Ts	Cement - 174612.29 Ts
8	CM-1 BVC	Cement - 59051.56 Ts	Cement - 62188.01 Ts
9	CM-2 BVC	Cement - 27259.09 Ts	Cement - 39064.51 Ts
10	RM/Kiln Bag House SCW	Raw meal - 122590.93 Ts	Raw meal - 185834.87 Ts

(c) 1) Quantity recycled or reutilised with in the unit

The above generated solid wastes are totally recycled and reutilised. The details are as below :

1.	Raw meal	294149.85 Ts.	364025.57 Ts.
2.	Clinker dust	143729.70 Ts.	33321.49 Ts.
3.	Cement	183222.21 Ts.	305521.50 Ts.

2) Sold

i)	Furnace oil sludge	NIL	NIL
ii)	Used lubricating oil	12.20 MT	40.20 MT
iii)	Used grease	7.92 MT	11.23 MT

3) Disposed – Please refer part-F.

PART – F

Please specify the characteristics (in terms of concentration and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both categories of wastes.

i) Solid wastes generated from the pollution control facilities are fully recycled and reutilised. The details are given in Part – E.

ii) Solid wastes from utilities :-

Source		Quantity	Nature	Mode of disposal
1.	Water treatment plant			
2.	Domestic waste	40.28 Ts/year	House hold articles	Compost & Plantation

iii) Hazardous wastes from process :-

1.	Plant operation	31.60 MT (Apr'20 to Mar'21)	Used lubricating oil	Sold to parties having authorization from CPCB/SPCB.
2.	Plant operation	8.16 MT (Apr'20 to Mar'21)	Used grease	- do -

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Material saved and recycled by pollution control measures during the year.

Raw meal	-	364025.57 Ts.
Clinker	-	33321.49 Ts.
Cement	-	305521.50 Ts.

Raw material conserved as per above figures

Limestone	-	697257.14 Ts.
Iron ore	-	22677.96 Ts.
Gypsum	-	10479.39 Ts.

PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

.....5

Details of Expenditures on Pollution Control Facility during the financial year (2020-21)

Sr. No.	Particulars	Rupees in Lakhs
1	Made new coal yard in SCW Plant for storage of coal to meet statutory compliance as per guidelines from M.P. Pollution Control Board , Bhopal & Satna	41.00
2	Extension of AFR Shed in SCW Plant to meet the statutory requirement	26.00
3	Replaced total 700 Nos. bags along with casing of Kiln Bag House for further efficiency improvement in SCW plant.	28.10
4	Replaced total 300 Nos. bags along with casing of new clinker silo BDC for further efficiency improvement in SCW plant.	5.68
5	Replaced total 578 Nos. bags of vertical Raw Mill circuit BDC for further efficiency improvement in SCW plant.	2.0
6	Replaced total 200 Nos. bags of coal Mill circuit BDC for further efficiency improvement in SCW plant.	1.10
7	Replaced total 1100 Nos. Bag of Kiln Bag House for further efficiency improvement in BVC plant.	27.50
8	Replaced total 294 Nos. Bag of coal Ball Mill circuit BDC for further efficiency improvement in BVC plant.	0.88
9	Replaced total 200 Nos. Bag of Fly Ash circuit BDC (CM-1) for further efficiency improvement in BVC plant.	0.48
10	Maintenance cost of pollution control equipment (Bags replacement in dedusting BDC's, pocket filters, spare parts replacements etc.)	10.00
11	Third party Monitoring fees including CEMS,CAAQMS,STP waste water analysis & noise etc.	3.50
12	To minimize fugitive dust emission surrounding the Truck Parking area, manual water spray is done by tanker as per guidelines by M.P. Pollution Control Board, Satna	3.24
13	Maintenance of Green Belt	10.12
14	Cost of Plants , Seeds etc.	4.85
15	Environment Laboratory & Pollution Monitoring Expanses including MPPCB officials , Calibration of Pollution Control Equipment by external agencies etc.	70.00
	Grand Total	**234.45**

In addition to the above, the annual running expenditure of pollution control equipment is around 3-3.5 crores of rupees. This is accounted for the cost of power, spares, manpower, maintenance etc.

PART – I

Any other particulars for improving the quality of the environment.

1. Green belt development :-

Extensive plantation programme has been launched in the year 2020-21 and 14,200 plants are planted in the factory as well as limestone mines area. Presently there are about 6.88 lakhs surviving trees and shrubs in and around the factory, colony and limestone mines.

2. Pollution control devices :-

As a part of environment control measures we have installed 5 Nos. of ESPs & 13 Nos. Bag house at Kiln, Cooler, Coal Mill & Cement Mill stacks. In addition to this 107 Nos. of BDCs, 36 Nos. of cassette filters at various stacks, storage silos, packing plant, crushing units and at various material transfer points. Thus our both the plants are fully equipped with modern pollution control devices and are working efficiently round the clock. Water spray system is also working successfully at BVC coal, clinker, gypsum and laterite/ sweetner circuits. For detailed list of pollution control equipments, their location, numbers, device etc. please refer Pollution Control Equipments List **Annexure-1**.

3. Effluent Treatment :-

Water used in the dry process cement manufacturing is mostly for cooling purposes like gas conditioning, bearing cooling etc. The return water from cooling circuit is allowed for sedimentation in settling ponds and cleaned water is recycled back in to the process, thus there is absolutely zero industrial waste water discharge from the system. Domestic waste water generated in the colony, toilets etc. is treated in Sewage Treatment Plant of 1080 m^3/day capacity. Also we have installed 02 Nos. STP of each capacity of 50 KL/day for treatment of waste water generated from A & B flats. Treated effluent quality meets the norms fixed by the MPPCB and it is recycled back for irrigation, gardening and water spray purposes. Thus there is absolutely zero discharge of waste water to any natural water system.

4. Pollution Monitoring:-

Air and water pollution load, emission standard fixed by MPPCB, Bhopal are maintained. Major stacks of both the units as well as ambient air quality in all the four direction are monitored regularly. Monthly and quarterly monitoring reports are submitted to MPPCB Bhopal, Satna and CPCB Delhi and Zonal Office, Bhopal. As per guidelines/instruction of CPCB/MPPCB, online Continuous Emission Monitoring System(CEMS) for particulate matter have been installed in all the major stack like Kiln, Cooler, Coal Mill, Cement Mills having SO2 & NOx analyser in Kiln Stack. Further, Continuous Ambient Air Quality Monitoring System (CAAQMS) have been installed in our Plant in Oct'12, online data is being transmitted to CPCB Website from Nov'2012. CAAQMS installed at two locations in Windward direction with Parameters PM10, PM2.5, SO2, NOx, CO along with meteorological data's. One CAAQMS installed at Bhandavgarh Colony & Krishi Upaj Mandi, Satna City and another CAAQMS installed at Birla Staff Colony, SCW. Also on line CEMS & CAAQMS data's are regularly being transmitted to M.P. Pollution Control Board, Bhopal Website. Treated domestic waste water quality is also monitored regularly the parameters like BOD, COD, suspended solids & pH are covered in the monitoring plan. Treated effluent water quality analysis report (August, 2021) and standards are as follows :

MPPCB standards for treated STP waste water - used for plantation & green belt		August, 2020 analysis report	
PH	- 6.5 – 9.0	PH	- 7.90
S. Solids	- 100 mg/lit.	S.Solids	- 35.00 mg/lit.
BOD	- 30 mg/lit.	BOD	- 6.00 mg/lit.
COD	- 250 mg/lit.	COD	- 26.00 mg/lit.

In addition to above all, MPPCB officers are also monitoring the air and water quality periodically to verify and confirm the standards.

A separate pollution control department with necessary equipment and trained technical persons, has been established to look after the pollution control equipments and monitoring. List of pollution monitoring equipments available with this department are given below :-

1. Stack monitoring kits – 6 Nos.
2. Ambient air monitoring kits – 9 Nos.
3. BOD incubator + direct measuring Kit
4. COD direct Measurement kit
5. Electronic balance
6. Glass wares and chemicals
7. Conductivity meter
8. Stack velocity monitor APM – 602
9. pH meter
10. Oven
11. Air conditioner
12. Spectrophotometer
13. Turbidity meter
14. Refrigerator
15. D.O. Meter
16. APM – 550, 4 Nos for 2.5 micron size dust sample.
17. Sound level meter
18. Co Measurement kit
19. Suspended Solids analyser Kit
20. Flue gas Analyser Testo 350

5. Solid Waste:-

No solid waste is generated from plant operation. The dust collected in air pollution control equipments like ESPs, BDCs and cassette filters are recycled back in to the process. Fly ash collected from the Thermal Power Plant ESP is used as a pozzalonic material for cement production. The other sources of solid wastes and their disposal methods are given in part-F.

6. Noise Pollution:-

Noise levels were measured at several location inside and outside the factory at different times of a day and the same are with in the permissible limits for acceptable out door noise level as per IS-4954 -1968 OSHA and PCB standards. Adequate noise abatement measures have been taken, the noise generating equipments were properly covered and mounted to reduce noise level. Noise attenuating devices like ear plug and ear muffs are providing to the workers in the area where required. A thick green belt is also developed around the factory to control and minimise the noise impact in the surrounding areas.

7. Fly ash utilization:-

As fly ash is having many cementious properties, Govt. of India and other statutory agencies has made it mandatory to use fly ash in the manufacturing of pozzalonic cement. As a part of these quidelines this year we have consumed 791786 tones of fly ash for PPC manufacturing, out of this, 62630 tones was own generation and the rest has procured from the nearby thermal power plants.

8. Environmental Management System Certification:-

We have been awarded with IMS (Integrated Management System) by Bureau Veritas as per ISO 9001: 2015, ISO 14001:2015 & ISO 45001: 2018 version. We have been awarded two times continuously with Greentech Environment Excellence Award by Greentech Foundation, New Delhi in August'07 & in Sept'08 for excellence work in Environment Management system. Also we have been awarded Gold award by Greentech Foundation, New Delhi for the year 2012 & 2014 for excellence work in Environment Management System. In addition to this M/s Satna Cement Works has been awarded 4th outstanding Achievement Award, under the category of "Environmental Friendly Recycler/Reprocessor" by "Federation of Madhya Pradesh Chambers of Commerce and Industry" (FMPCCI), Bhopal for commendable efforts & achievements in the year 2015-16.

-ooo-

BIRLA CORPORATION LTD.,

UNIT: SATNA CEMENT WORKS, SATNA

Annexure-I

Sl.No.	Section with No. of Equipments	Nos.	Device	SCW	BVC
1	RM/Kiln ESP/BH	2	ESP/BH	RM/Kiln Stack (BH)	RM/Kiln Stack (ESP)
2	Kiln Bag House	2	B. House	Kiln Stack	Kiln Stack
3	Cooler	4	ESP	Cooler Stack	Cooler Stack
4	Coal Mill	4	Bag H	Coal Mill Stack, Vert. Coal Mill	Coal Mill Stack, Vert. Coal Mill
5	New Pet Cock Mill	4	Bag H		3 Nos. BDC in circuit
6	New VRPGM	7	BDC	361 BF-1, 361 BF-2,311 BF-1, 311 BF02, 311 RF-1	1 No. in 362 belt, 1 no. in VRM Circuit
7	Cement Mill	4	Bag H	CM-1, CM1A	CM-1 &2 BDC Stack
8	Limestone belts	11	BDC	Plant-B, D-23, D-39	Laterie Crusher (2 Nos.) Plant-A, R1R03, R1A07, New LS Crusher BDC, 2Nos. New Limestone hopper
9	New Stacker/Rec. Circuits	6	BDC		BC-7, BC-9, BC-10, BC-12, U2(A), R2 Belts
10	Coal Belts	10	BDC	Coal Crusher, K3 Belt dis. Coal hopper, VCM 02 Nos. in New wagon tippler	J.No.13, Crusher,W-tippler raw coal hopp. Coal solid flow meter.
11	Gypsum	4	BDC	Crusher, GP Bag Filter no. 2,3	GP Bag filter no.1
12	Clinker Belts	14	BDC	Cooler discharge, F-35, U3 (2) belt Clinker Silo, Clinker Shuttle Belt	KL-7, J No.5, 13, C.H.-1, C.H-2, DDPC Inlet, KL2(A), KL2 (C), New Clk hop. CM-1
13	New Clinker Silo	11	BDC	04 Nos. in Belt Trans. Points. 01 no. Silo top.01 no. elev. Dis. To old Clinker Silo	01 no. Silo top, 02 no. Silo extrac, 02 Nos. Trans. Points
14	Polychom Circuit	15	Bag H BDC		Mill Exhaust Gases-01 no. 06 nos. cement transportation
15	Fly ash Circuit	9	BDC	02 nos. Silo top, 02 nos. truck tipp. 01 nos. dense phase, CM-1 &1A fly ash tank	Fly ash tank. CM-1, CM-2, CM-2 Solid Flow Meter.
16	P.Plant & C Silos	15	BDC	Packer-1,2,3, 01 no. bulk load C. Silo-1&2, 3&4, BDC cem. Bag Cleaning	Packer -1, 2, 3, 4,5 , Cement Silo 1&2, 3 & 4, 01 no. bulk load
17	Process	11	BDC	E-27, E-28, E-29, R-25, D-26	H1P01, H1P11, 120m PH W1PO1, RM Osepa, CM-2 Osepa
18	Limestone belts	15	P.F.	FH-4	LS 3,7,9, L1, K1, K2, R2, R3, R1A, R1B, U4, S1, S2, BC2
19	Clinker Belts	9	P.F.	KLC-0A, 1A, 2A, Stacker Clk, unloading-1, 2, 3	KL2A, KL2 (B)
20	Coal Belts	5	P.F.	K-3 Belt	K4, K4L4, K7, K8
21	Gypsum Belts	4	P.F.	GP-7, GP-8, GP-9	GP-10
22	Fly Ash Silos	3	P.F.	CM-1 Solid flow meter	CM-1, CM-2
23	27MW CTPP	2	ESP	Boiler Stack	
		2	BDC	Coal Crusher, Bunker	
		9	P.F.	3,4,5,6, F. Silo, B. Ash Silo, Ash	
24	Sagmania Mines	3	BDC	BC-5, BC-6, 1200 TPH reject belt	
		2	Bag H	1200 TPH, 800 TPH	
		2	P.F.	BC2, BC3	

Device	SCW	BVC	27MW	Mines	Total
ESP	2	3	2		7
BAG H	6	7		2	15
BDC	45	62	2	3	112
P.F.	13	23	9	2	47

न्यूज पेपर दैनिक जागरण

आम सूचना

सर्व सम्बन्धितों को सूचित किया जाता है कि भारत सरकार पर्यावरण एवं वन मंत्रालय, नई दिल्ली द्वारा बिरला कार्पोरेशन लिमिटेड, यूनिट- सतना सीमेंट वर्क्स, सतना को सीमेन्ट उत्पादन क्षमता (2.2 MTPA से 3.0 MTPA) बढाने हेतु पर्यावरण स्वीकृति पत्र क्रमांक J-11011/461/2011-IA-II(I) दिनांक 10.10.2012 द्वारा प्रदान की गई है। जिसकी प्रति म.प्र. प्रदूषण नियंत्रण बोर्ड में व पर्यावरण एवं वन मंत्रालय की Website:http:/ envfor.nic. in पद पर उपलब्ध है।

न्यूज पेपर स्यार समाचार

आम सूचना

सर्व सम्बन्धितों को सूचित किया जाता है कि भारत सरकार पर्यावरण एवं वन मंत्रालय, नई दिल्ली द्वारा बिरला कारपोरेशन लिमिटेड, यूनिट- सतना सीमेंट वर्क्स, सतना को सीमेन्ट उत्पादन क्षमता (2.2 MTPA से 3.0 MTPA) बढाने हेतु पर्यावरण स्वीकृति पत्र क्रमांक J-11011/461/2011-IA-II(I) दिनांक 10.10.2012 द्वारा प्रदान की गई है। जिसकी प्रति म0प्र0 प्रदूषण नियंत्रण बोर्ड में व पर्यावरण एवं वन मंत्रालय की Website:http:/envfor.nic.in पद पर उपलब्ध है।

Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

RED-LARGE	CCA-Expansion Validity [A/W] : 30.09.2022	CONSENT NO: ***	PCB ID: 27695

Outward No:113821,21/10/2021 **Consent No:AW-54480**

To,

The Occupier,
M/s. Birla Corporation Ltd.,
(Unit-Satna Cement Works),
P.O. Birla Vikas, Tehsil-Raghurajnagar,
Satna-485005 (M.P.)

Subject: Grant of Consent to Operate for expansion under section 25 of the Water (Prevention & Control of Pollution) Act,1974 & under section 21 of the Air (Prevention & Control of Pollution) Act,1981

Ref: Your Application Receipt No. 1088607 Dt. 07/10/2021 and last communication received on Dt. 08/10/2021

With reference to your above application, the consent to operate for expansion has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board agreed to grant consent to operate for expansion with the validity up to 30/09/2022 for operation of feeding system for low cost additive i.e. limestone in cement mill along with 5.0 TPH shredding system and AFR storage yard without any change in product & production capacity, subject to the fulfillment of the terms & conditions incorporated in order outward no. 55263 dt.11/06/2017, outward no. 55951 dt.05/12/2017, outward no. 77095 dt. 30/07/2018, outward no. 87554 dt. 16/11/2018, CTE-Expansion outward no. 101129 dt. 07/10/2020 & as enclosed with this letter.

SUBJECT TO THE FOLLOWING CONDITIONS :-

a. Location: P.O. Birla Vikas, Tehsil-Raghurajnagar, Satna-485005 (M.P.)

b. The capital investment in lakhs: Rs. 96853

c. Product & Production Capacity:

Product	CTE Qty./Year	CCA Qty./Year	Applied Qty./Year
Cement	3000000.000 M.T.	3000000.000 M.T.	3000000.000 M.T.
Clinker	3400000.000 M.T.	3400000.000 M.T.	3400000.000 M.T.

Note:- For any change in above industry shall obtain fresh consent from the Board.

The Validity of the consent is up to 30/09/2022 and has to be renewed before expiry of its validity. Online application with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

Enclosures:-

* Conditions under Water Act
* Conditions under Air Act
* General conditions

Signature Not Verified
Digitally Signed by : A. A Mishra, Member Secretary
Date: 21/10/2021 03:40:50 PM

ACHYUT ANAND MISHRA
Member Secretary

(Organic Authentication on AADHAR from UIDAI Server)
TPAV # 3AD1KB5U3J

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

1. The daily quantity of trade effluent generation shall be zero and the daily quantity of sewage generation shall not exceed 471.000 KL/day.

2. Sewage Treatment:- The industry shall operate the sewage treatment system so asto achieve following standards as notified vide GSR No. 1265(E) Dt. 13.10.2017:

pH	Between	6.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD_3 Days 27^0C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
Fecal Coliform (FC) MPN/100ml	Not exceed	1000

Note: Reuse/Recycling of treated effluent shall be encouraged and in cases where part of the treated effluent is reused and recycled involving possibility of human contact, standards as specified above shall apply.

Sr.	Water Code (Qty. in klpd.)	WC : 1611.420	WWG : 471.000	Water Source
1	Cooling Water	941.070	0.000	Mine Water
2	Domestic Purpose	670.350	471.000	Mine Water

3. The effluent/sewage shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.

4. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board

5. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent

6. Reporting of Monitoring Results:-
Monitoring Information required by this Consent shall be summarized and reported by submitting a monthly Discharge Monitoring report on line to the Board through the link “periodic Compliances” provided on XGN.

7. Provision for Electric Power Failure-
The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

8. Industry shall submit the information online through XGN in reference to compliance of consent conditions the link “periodic Compliances” provided on XGN.

CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. The applicant shall maintain the air pollution control equipments so as to achieve the level of pollutants to the following standards:-

Name of section	Stack height (mtrs.)	Fuel	Control equipment	P.M, SO_X, NO_X (mg/Nm^3)
BVC Cement Mill	42	---	Bag House	30, NA, NA
BVC Cement Mill	42	---	Bag House	30, NA, NA
SCW Cement Mill	42	---	Bag House	30, NA, NA
SCW Cement Mill	42	---	Bag House	30, NA, NA
BVC Coal Mill	47	---	Bag House	30, NA, NA
BVC Coal Mill	62	---	Bag House	30, NA, NA
SCW Coal Mill	62	---	Bag House	30, NA, NA
SCW Coal Mill	62	---	Bag House	30, NA, NA
BVC Cooler Exit	31	---	E.S.P.	30, NA, NA
SCW Cooler Exit	31	---	E.S.P.	30, NA, NA
SCW Raw Mill Kiln	42	---	Bag House	30, 100, 800
BVC Raw Mill Kiln	145	Coal, Pet coke & AFR	Bag House	30, 100, 800
SCW Raw Mill Kiln	105	Coal, Pet coke & AFR	Bag House	30, 100, 800
BVC Raw Mill Kiln	130	Coal, Pet coke & AFR	E.S.P.	30, 100, 800

This Certificate generated from xgn.mp.nic.in are valid and does not require physical signatures, the certificate can be validated online from xgn.mp.nic.in using "TPAV" Number.

2. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis: The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:

a. Particulate Matter (less than 10 micron) - 100 µg/m³ (PM10 µg/m³ 24 hrs. basis)
b. Particulate Matter (less than 2.5 micron) - 60 µg/m³ (PM2.5 µg/m³ 24 hrs. basis)
c. Sulphur Dioxide [SO2] (24 hrs. Basis) - 80 µg/m³
d. Nitrogen Oxides [NOx] (24 hrs. Basis) - 80 µg/m³
e. Carbon Monoxide [CO] (8 hrs. Basis) - 2000 µg/m³

3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.

4. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities. All fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance

5. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises

6. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.

7. Industry shall take effective steps for extensive tree plantation of the local tree species within or around the industry/unit premises for general improvement of environmental conditions and as stated in below.

8. Reporting of Monitoring Results:- Monitoring Information required by this Consent shall be summarized and reported by submitting a monthly emission Monitoring report on line to the Board the link “periodic Compliances” provided on XGN.

Additional Air condition:-

1. The industry is permitted to use indigenous /imported pet coke as feedstock/in the manufacturing Process only limited to 2,40,000 MT Per Annum on actual user basis.
2. The industry shall furnish the online monthly patrak through XGN separately for indigenous /imported pet coke showing the balance quantity at the start of month, quantity procured during the month, the quantity consumed during the month as feedstock or in the manufacturing Process and the balance quantity in the end of the month.
3. The industry is permitted to use Agro waste, woody biomass and polythene waste -200000 MTPA as AFR, Non Hazardous waste like Laminated waste/Packing waste & Plastic waste - 4000TPA and Damaged & date Expired FMCG Products4000TPA). The industry shall comply with the monitoring protocol as decided by the CPCB for the use of AFR.

GENERAL CONDITIONS:

1. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution.

2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.

b. To enter upon the applicant’s premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.

c. To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.

d. To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,

e. To sample at reasonable times any discharge or pollutants.

3. This consent is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

M.P. Pollution Control Board
E-5, Arera Colony
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5. Industry shall operate separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month

6. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of Hazardous and other Waste (Management & Transboundary movement) Rules 2016 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.

7. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.

8. The industry/unit shall have a separate environmental cell, headed by senior officer of the unit for reporting the environmental compliances. The industry/ Unit shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.

9. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the Water Act or the Air Act.

10. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following:

(a) Violation of any terms and conditions of this Consent.
(b) Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
(c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

11. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

Additional condition:-

1. The Industry shall operate Outdoor HD Industrial grade IP(Internet Protocol) Cameras with pan-Tilt-Zoom (PTZ) feature, minimum focal length 30X with night vision facility and temper proof mechanism at suitable location to display all mission sources and effluent discharge point and the same shall be connected with Environment Surveillance Centre, MP Pollution Control Board Bhopal for remote surveillance.
2. The online monitoring system installed by the industry shall always be kept operational & in working order time to time online remote calibration shall be performed in co-ordination with Environment Surveillance Centre, MP Pollution Control Board Bhopal for remote surveillance.

Consent as required under the Water (Prevention & Control of Pollution) Act,1974 & The Air (Prevention & Control of Pollution) Act,1981 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

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Achyut mishra

ACHYUT ANAND MISHRA
Member Secretary

Consent No:AW-54480