



BIHAR CEMENT PLANT

(A Unit of Shree Cement Ltd.)

Jasoia More, BIADA Industrial Growth Centre,

Post/P.S.- Aurangabad (Bihar)-824101, India

Tel. : 06186-292294, 292295, 292296

E-mail Id : shreebcgu@shreecementltd.com

CIN:L26943RJ1979PLC001935

SCL/Bihar/ENV/2021-22/2502

Date: 21 May 2021
By Speed Post

To,
The Additional Principal Chief Conservator of Forest (APCCF),
Ministry of Environment, Forests & Climate Change,
Regional Office (Ranchi),
Bungalow No. A-2, Shyamali Colony,
Ranchi - 834002

Sub: - Regarding compliance of environment clearance (October-2020 to March-2021) of Clinker Grinding Unit at Aurangabad Industrial Growth Center (Industrial Area), Tehsil & District-Aurangabad, Bihar by M/s Bihar Cement Plant, A Unit of Shree Cement Limited and M/s New Bihar Cement Plant, A Unit of Shree Cement Limited.

Ref: - Environment Clearance letter No. 67/SEIAA/17 dated: 13 June 2017

Dear Sir,

Kindly refer to the above subjected matter and referred EC letter, we are submitting herewith the pointwise compliance report of environment clearance for the period of October-2020 to March-2021.

This is for your kind information.

Thanking you.

Yours faithfully,
For Bihar Cement Plant and New Bihar Cement Plant
(A Unit of Shree Cement Ltd.)

(Gyanendra Mohan Khare)
Unit in charge

Copy to:

1. The Member Secretary, Bihar State Pollution Control Board, Parivesh Bhawan, Patliputra Industrial Area, Patna-800010 (Bihar)
2. The Member Secretary, State Environment Impact Assessment Authority, 2nd Floor, Beltron Bhawan, Shastri Nagar, Jawhar Lal Nehru Marg, Patna - 800023 (Bihar)
3. The Zonal Officer, Central Pollution Control Board, southernd Conclave, Block - 502, 5th & 6th floors, 1582 Rajdanga Main Road, Kolkata - 700107.

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Compliance of conditions of “Environment Clearance” of Clinker Grinding Unit at Industrial Growth Centre, Aurangabad, Bihar.

Ref: - Environment Clearance letter No. 67/SEIAA/17 dated: 13 June 2017

Specific Conditions:		
Condition No.	EC Condition	Compliance
1.	SPM from various process units should confirm to the load/mass based standard prescribed in the MoEF and SPCB from time to time. At no time the emission level should go beyond the prescribed standards.	CPCB / MOEF&CC formulated PM emission norms for clinker grinding unit and SO ₂ , NO _x & PM for kiln stack. There is no load based standards formulated for clinker grinding unit, it is formulated only for kiln stack. Emission level is well within the prescribed norms. Stack emission monitoring results are attached herewith as <u>Annexure-1</u> .
2.	Cement grinding shall be carried out in closed cement mill. Further, provision of dust extraction and pollution control system consisting of highly efficient bag filter and ID fan should be provide for cement mill, clinker silo, fly ash storage silo, cement silo, wagon and gypsum crushing plant with adequate stack height. Stack emissions shall be monitored at regular intervals and records maintained.	Cement grinding is carried out in closed cement mill. Dust extraction and pollution control system consisting of highly efficient bag filters and ID fan have been provide for cement mills, clinker silo, fly ash storage silo and cement silo. Stack height of Cement mill of Bihar Cement Plant is 42.5 meter and Cement mill of New Bihar Cement Plant is 50.0 meter. Continuous emission monitoring system have installed and online data is going on CPCB and BSPCB servers. Emission level is well within the prescribed norms. Stack emission level is attached herewith as <u>Annexure-1</u> .
3.	The stack emission from various sources shall not exceed 50 mg/Nm ³ as per the MoEF&CC notification G.S.R. 46(E) dated 03-02-2006.	Bag house for cement mills have been installed to maintain PM level to < 30 mg/Nm ³ . Reports are enclosed as <u>Annexure-1</u> .
4.	Transportation of fly ash to the plant should be brought through tankers and stored in silo without any air pollution at transfer point.	Fly ash is being transported in the closed containers and bulkers. It stored in silo and covered hopper only. A photograph is enclosed for your reference. 

5.	Regular monitoring of air quality shall be carried out in and around the plant and records shall be maintained.	Ambient air quality for relevant parameters of clinker grading unit as per NAAQS, 2009 is being carried out by NABL certified lab and self for PM10, PM2.5, SO ₂ & NO _x . Results are well within the norms. Copy of the results is attached herewith as <u>Annexure-2</u> .
6.	Adequate dust suppression and extraction system should be provided in material storage areas, material loading / unloading areas and transfer point for controlling fugitive emission. Fugitive dust emission from ball mill and storage areas shall be collected in bag filters and recycled back to the process.	To control fugitive emission, following measures are provided: 1. Covered shed (size 194 X 90 Meter) for storage of raw materials 2. Silos for storage for clinker with dust collectors 3. Covered unloading hoppers with dust collectors 4. Covered conveyor belts for raw material conveying 5. Cemented roads in movement area 6. Regular deployment of 3 number of Vacuum dust sweeping machines 7. Water sprinkling at main gate (3 rows pipeline with mist nozzle) + 35 sprinklers at various location in plant 8. Bag filters at all material transfer points. There are 69 and 46 dust collectors installed in BCP and NBCP respectively 9. Deployment of water tanker for spraying water on roads. Some photographs have enclosed herewith as <u>Annexure - 3</u> for reference.
7.	Regular water sprinkling should be done on the roads inside the plant and other high potential areas to control the fugitive dust emission.	Sprinklers have installed at main gate, unloading area and cement mill area. Water tankers are also being used for spray of water on roads to control the fugitive dust. The mist spray system have installed along the plant service road towards NH-98 and packing plant boundary area. <u>Annexure - 3</u>
8.	Suction head should be provided at all transfer dust emission.	Dust collectors have been provided at all material transfer points.
9.	Groundwater shall not be abstracted without prior permission of CGWA	CGWA permission obtained and copy of NOC is enclosed herewith as <u>Annexure-4</u> .
10.	Clinker manufacturing is not permitted under this EC	Complying with.
11.	Solid waste viz. dust generation shall be properly recycled and reutilized in the process itself.	No solid waste is generated from clinker grinding unit. Dust collected from bag filters is being recycled in the process.
12.	The unit must develop a separate water body to harvest rain water so as to use the stored water for serving partial requirement of plant as also to use for	We have constructed 30000 KL capacity pond (size 167 x 40 x 4.5 meter) in plant area to collect the rain water. A recent photograph of rain water harvesting is enclosed for reference.

	<p>plantation, firefighting, washing & cleaning etc.</p>	 <p>Water is used for recharging the ground water, plantation and dust suppression.</p>
<p>13.</p>	<p>Green belt shall be developed in and around the plant premises. Green belt to be developed at least 33% of the project area. Selection of appropriate species for plantation programme may be done in consultation with the Environment & Forest Dept., Bihar</p>	<p>Green belt have developed in and around the plant premises in more than 33% of the project area. Photographs of plantations along approach road towards offices are enclosed herewith for reference.</p>   <p>In last rainy season 5000 plant saplings have planted in and around plant premises. The</p>

		planted species are Seesam, Kadam, Mango, Gular, Pakad, Sagwan, Mohagni, Arjun, Gulmohar, Amaltas, Neem, Semal, Peepal, Guava, Kachnar, Chhatwan, Eucalyptus, Peltophorum, Silver Oak, Jarul, Acacia etc.
14.	Ambient Noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level should conform to the standards prescribes under EPA Rules, 1989 viz 75 dB (A) (day time) and 70 dB (A) (Night) and its subsequent amendments.	Adequate measures like silencers, acoustic enclosure, greenbelt development and regular maintenance of equipment are adopted to control the noise within the prescribed limit. Noise level is being monitored at the plant boundary as well as inside the plant premises. Results are well within the norms. Copy of the results is attached herewith as <u>Annexure - 5.</u>
15.	Generators must be housed in acoustic enclosure and should meet the CPCB norms	2x500 KVA latest noise less DG sets are installed. They have inbuilt acoustic enclosure. These are operated only during the grid power failure for plant lighting purpose. As per the CPCB norms, stack height is being maintained. DG Set emission level is attached herewith as <u>Annexure - 6.</u>
16.	All internal roads should be concreted / pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicle movements. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper housekeeping shall be maintained within the premises. Solar lighting should be used as far as practicable	All internal roads are either concreted or made of AAC blocks. Some photographs are enclosed for the reference. 

		<p>Proper lighting and pathway have been made to ensure safe vehicle movements. Vehicles are checked to confirm the PUC certificate. PUC certificate of few vehicles are enclosed here with for your kind reference as <u>Annexure - 7</u>.</p> <p>We had installed the Solar lights but solar lights are not feasible in plant area as the lux level / illumination is not meeting the industrial safety norms. Hence lights were removed from the working area.</p>
17.	Health and safety of workers should be ensured. Workers should be provided with adequate PPE and sanitation facilities. Occupational Health Surveillance of the workers shall be done on regular basis and records maintained as per the Factories Act.	<p>Personnel protective equipment have been provide to all.</p> <p>Proper sanitation facilities have been developed at site.</p> <p>Every worker is being examined as per the Factories Act. In 2020-21 total 939 workers were undergone for medical checkup. Report of few workers is enclosed as <u>Annexure - 8</u> for reference.</p>
18.	Adequate measures to be adopted to ensure industrial safety.	Safe practices are being followed as per the industrial safety norms.
19.	The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.	Complying.
20.	No civil construction shall be constructed below the high tension wire passing through the proposed site of unit.	Complying.
21.	Follow all the safety measures as per The Indian Electricity rules, 1956 & its amendment.	Complying.
General Conditions:		
1.	The project proponent shall be comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake social-economic development activities in the surrounding villages like community development programmes, educational programmes and health care etc.	<p>Environment Protection Measures mentioned have been implemented. A covered shed for storage of gypsum, coal, pet coke and slag has been constructed.</p> <p>Social welfare activities in the nearby area is going on. In FY 2020-21 Rs. 1.24 Cr have spent on CSR activity. Details are enclosed as <u>Annexure - 9</u> for your kind reference.</p>
2.	All the condition, liabilities and legal provisions contained in the E.C. shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entry.	Not Applicable.
3.	All the laborers to be engaged for construction work should be screened for	Complying with. All the workers screened for health before issue of work permits. In last year

	health and adequately treated before issue of work permits	total 353 workers screened before issue of work permit. Screening report for few workers are enclosed herewith as <u>Annexure - 10</u>
4.	The project proponent should make financial provision in the total budget of the project for implementation of environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	<p>Total capital cost of pollution control equipment is given as below:</p> <ol style="list-style-type: none"> 1. Dust collectors in BCP Rs. 4.5 Cr. 2. Bag house in BCP, Rs 3.5 Cr 3. Dust collectors in NBCP Rs. 3.0 Cr 4. Bag house in NBCP, Rs. 3.95 Cr 5. Covering of conveyor belts Rs. 0.5 Cr 6. Sweeping m/c, Rs 0.40 Cr 7. Covered shed with wind breaking wall, Rs 5.0 Cr 8. Concreting roads Rs. 5.25 Cr. 9. Water harvesting pond and structures, Rs. 0.10 Cr 10. Water sprinkling arrangement Rs. 0.03 Cr 11. Water metering and level measurement indicators, Rs. 0.06 Cr 12. STP Rs. 0.30 Cr 13. Plantation, Rs. 0.80 Cr 14. Dispensary, Rs. 0.30 Cr. 15. Env Lab Equipment, Rs. 0.10 Cr 16. CEMS, Rs. 0.10 Cr. 17. Water tanker with trolley: Rs. 0.06 Cr <p>Total, Rs. 27.95 Cr. approximately</p> <p>Recurring expenditures during year April 2020 to March 2021 is given as below:</p> <ol style="list-style-type: none"> 1. Maintenance & up gradation of air pollution control measures: 0.46 Cr 2. STP operation & maintenance: 0.05 Cr 3. Water sprinkling: 0.05 Cr 4. Plantation: 0.14 Cr 5. PPEs: 0.03 Cr 6. Medical: 0.16 Cr 7. Operation of vacuum machine: 0.10 Cr 8. Housekeeping labors: 0.77 Cr 9. Env lab & CEMS: 0.12 Cr <p>Total, Rs. 1.88 Cr. approximately</p>
5.	The project proponent directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar and details along with the time schedule for implementation	The Copy of bank guarantee and CSR schedule submitted to the SEIAA Bihar, have already submitted.

	shall be prepared and submitted to the SEIAA, Bihar.	
6.	No further expansion or modification in the plant should be carried out without prior approval of the SEIAA.	Agreed to take prior approval for further any change in the scope of from the concerned authority.
7.	The SEIAA, Bihar who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/data by the project proponent during their inspection. A six monthly compliance report and monitoring data along with statistical interpretation shall be submitted to the BSPCB and SEIAA, Bihar regularly. This report shall be also put on the website of the company and also regularly be updated.	Full co-operation is being extended to the officials of the SEIAA, BSPCB and MoEF&CC during inspection. Six monthly compliance reports & monitoring data along with statistical interpretation (Annexure – 1, 2 & 3) is being submitted to State Environment Impact Assessment Authority, Regional Office of MoEF & CC, Central Pollution Control Board and State Pollution Control Board. It's also posted on the website of the Company.
8.	In case of any changes in the scope of project, the project would require a fresh appraisal by SEIAA.	Agreed to comply with.
9.	The project proponent should inform the public that the project has been accorded environmental clearance by SEIAA and copies of EC letter are available with SEIAA Secretariat and also be seen at website. This should be advertised by the project proponent within seven days from the widely circulated in the region of which one shall be in vernacular language of the locality concerned.	Informed the public by giving advertisement in two newspapers namely Naw Bihar Times and Parbhat Khabar dated 17/6/2017. Copy of the same has been submitted to SEIAA, Bihar by letter no. SCL/EC/NBCP/2017-18/161 dated 26 June 2017.
10.	Prior consent to establish (NOC) for the proposed project must be obtained from BSPCB before commencement of construction. All other statutory clearance should be obtained by project proponent from the competent authorities.	Complying.
11.	The EC accorded shall be valid for a period of 7 years for the proposed project. The above stipulations would be enforced along with those under the Water act, Air act, Environment (Protection) Act, 1986, The HWMH rules, 1989, the Public Liability Insurance Act, 1991, the EIA notification, 2006 and their amendments.	Complying with. Public Liability Insurance Act, 1991 is applicable to provide immediate relief to the person affected by accident involving hazardous substance. In the clinker grinding unit no hazardous substance is handled, hence it is not applicable.
12.	Any appeal against this EC shall lie with the NGT, if preferred within a period of 30 days as prescribed under section 16 of the NGT Act, 2010.	Noted.

Other Points		
1.	The responsibility for implementation of environmental safeguards rest fully with the project proponent.	Complying with.
2.	The authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of authority. If that be so, legal action as per the provisions of Environment (Protection) Act, 1986.	Complying with all the stipulated conditions.
3.	The EC accorded shall be valid for the period of grant of lease for the mine. The PP shall not increase production rate and alter lease area during the validity of EC.	It is only clinker grinding unit. Production is within the permitted capacity. Production capacity of Bihar Cement Plant: 4.5MMTPA and production up to April' 20 – March' 21: 2,015,770 MT Production capacity of New Bihar Cement Plant: 4.5MMTPA and production up to April' 20 – March' 21: 1,562,313 MT
4.	In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Bihar for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.	Noted.
5.	The above stipulations would be enforced among others under the Water act, 1974, Air act, 1981, the Environment (Protection) Act, 1986, The HWMH rules, 2008, the Public Liability Insurance Act, 1991, along with their amendments and rules made their under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Bihar and any other court of Law relating to the subject matter.	Noted and complying with. Public Liability Insurance Act, 1991 is applicable to provide immediate relief to the person affected by accident involving hazardous substance. In the clinker grinding unit no hazardous substance is handled, hence it is not applicable.
6.	Any appeal against this EC shall lie with the NGT, if preferred, within a period of 30 days as prescribed under section 16 of the NGT Act, 2010.	Noted.

**Statistical interpretation of Stack emission Monitoring Report
October' 2020 - March' 2021**

S. No.	Location/ Month	Pollution Control Measures	PM (mg/Nm ³) Cement Mill, BCP	PM (mg/Nm ³) Ball Mill, BCP	PM (mg/Nm ³) Cement Mill, NBCP
01.	Oct-20	Bag House	18	-	27
02.	Nov-20	Bag House	18	-	22
03.	Dec-20	Bag House	17	-	25
04.	Jan- 21	Bag House	16	-	23
05.	Feb -21	Bag House	15	-	22
06.	Mar -21	Bag House	16	-	25
Minimum			15	-	22
Maximum			18	-	27
Median			16.5	-	24



SHIVA TEST HOUSE

122 - C, Aastha, Road No. 5 A

Patliputra Colony ; Patna - 800 013

E.mail : sthpatna1@yahoo.co.in

RECOGNISED AS ENVIRONMENTAL LABORATORY BY MOEFCC, GOVT. OF INDIA, UNDER ENVIRONMENT (PROTECTION) ACT 1986, DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref. No. <i>BCP/TR/20-21/1511</i> Dt : <i>21.10.2020</i> Your Ref. No. <i>SCL/CC/Environment/19-20/WO-4860</i> Dt : <i>24.04.2019</i>				
[a] Name and address of the Customer	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoia More AURANGABAD - 824 101 ; Bihar			
[b] Report to be submitted to	Unit Head			
[c] Details of Sample	Monitoring of Stack Emission			
[d] Sample Collected by	SHIVA TEST HOUSE on 12.10.20			
[e] No. & Type of Container	Thimble & Glass Impinger			
[f] Items required to be tested	As per request			
[g] Whether any specific Method of Test has been suggested by the party	No			
[h] Date of receiving the sample	13.10.20			
Parameters	Method of Test	Results		
1. Stack Connected to		Cement Mill Bag House		
2. Height of Stack (as reported)		42.5 m.		
3. Dia of Stack at Top (as reported)		2.8 m.		
4. Draft		ID Fan		
5. Material of Construction		M.S.		
6. Ambient Temperature, °C		36.0		
7. Flue Gas Temperature, °C		91.0		
8. Velocity, m/sec.	IS 11255 (Part-3)	8.1		
9. Atmospheric Pressure, mm. Hg		751.46		
10. Moisture (%)		1.3		
11. Volumetric Flow, NM ³ /hr.		146922.4		
12. Sampling Point		29.6 m.		
		Concentration (mg / NM ³)	Concentration through CEMS (mg / NM ³)	Limit as per E (P) Rules
13. Particulate Matter (P.M.)	IS 11255 (Part-1)	18.2	19.0	30.00 mg / NM ³



[Signature]

Authorized Signatory
 Quality Manager / Dy. Quality Manager

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
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TEST REPORT

Ref. No. BCP/TR/20-21/4417 Dt : 23.03.2021 Your Ref. No.SCL/CC/Environment/19-20/WO-4860 Dt : 24.04.2019

[a]	Name and address of the Customer	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoia More AURANGABAD - 824 101 ; Bihar			
[b]	Report to be submitted to	Unit Head			
[c]	Details of Sample	Monitoring of Stack Emission			
[d]	Sample Collected by	SHIVA TEST HOUSE on 11.03.21			
[e]	No. & Type of Container	Thimble & Glass Impinger			
[f]	Items required to be tested	As per request			
[g]	Whether any specific Method of Test has been suggested by the party	No			
[h]	Date of receiving the sample	12.03.21			
Parameters		Method of Test	Results		
1.	Stack Connected to	IS 11255 (Part-3)	Cement Mill Bag House		
2.	Height of Stack (as reported)		42.5 m.		
3.	Dia of Stack at Top (as reported)		2.8 m.		
4.	Draft		ID Fan		
5.	Material of Construction		M.S.		
6.	Ambient Temperature, °C		33.0		
7.	Flue Gas Temperature, °C		96.0		
8.	Velocity, m/sec.		8.5		
9.	Atmospheric Pressure, mm. Hg		751.41		
10.	Moisture (%)		1.1		
11.	Volumetric Flow, NM ³ /hr.		152088.7		
12.	Sampling Point		29.6 m.		
		Concentration (mg / NM ³)	Concentration through CEMS (mg / NM ³)	Limit as per E (P) Rules	
13.	Particulate Matter (P.M.)	IS 11255 (Part-1)	18.1	16.82	30.00 mg / NM ³



Handwritten Signature
23/03/2021
Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref. No. BCP/TR/20-21/1512 Dt : 21.10.2020 Your Ref. No.SCL/CC/Environment/19-20/WO-4860 Dt : 24.04.2019				
[a] Name and address of the Customer	NEW BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoiya More AURANGABAD - 824 101 ; Bihar			
[b] Report to be submitted to	Unit Head			
[c] Details of Sample	Monitoring of Stack Emission			
[d] Sample Collected by	SHIVA TEST HOUSE on 12.10.20			
[e] No. & Type of Container	Thimble & Glass Impinger			
[f] Items required to be tested	As per request			
[g] Whether any specific Method of Test has been suggested by the party	No			
[h] Date of receiving the sample	13.10.20			
Parameters	Method of Test	Results		
1. Stack Connected to		Cement Mill Bag House (NBCP)		
2. Height of Stack (as reported)		50.0 m.		
3. Dia of Stack at Top (as reported)		4.0 m.		
4. Draft		ID Fan		
5. Material of Construction		M.S.		
6. Ambient Temperature, °C		36.0		
7. Flue Gas Temperature, °C		94.0		
8. Velocity, m/sec.		IS 11255 (Part-3)	8.7	
9. Atmospheric Pressure, mm. Hg			751.41	
10. Moisture (%)			1.3	
11. Volumetric Flow, NM ³ /hr.			319419.6	
12. Sampling Point			42.5 m.	
		Concentration (mg / NM³)	Concentration through CEMS (mg / NM³)	Limit as per E (P) Rules
14. Particulate Matter (P.M.)	IS 11255 (Part-1)	25.8	27.0	30.00 mg / NM ³



[Signature]

Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref. No. BCP/TR/20-21/4418 Dt : 23.03.2021 Your Ref. No.SCL/CC/Environment/19-20/WO-4860 Dt : 24.04.2019				
[a]	Name and address of the Customer	NEW BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoiya More AURANGABAD - 824 101 ; Bihar		
[b]	Report to be submitted to	Unit Head		
[c]	Details of Sample	Monitoring of Stack Emission		
[d]	Sample Collected by	SHIVA TEST HOUSE on 11.03.21		
[e]	No. & Type of Container	Thimble & Glass Impinger		
[f]	Items required to be tested	As per request		
[g]	Whether any specific Method of Test has been suggested by the party	No		
[h]	Date of receiving the sample	12.03.21		
	Parameters	Method of Test	Results	
	1. Stack Connected to		Cement Mill Bag House (NBCP)	
	2. Height of Stack (as reported)		50.0 m.	
	3. Dia of Stack at Top (as reported)		4.0 m.	
	4. Draft		ID Fan	
	5. Material of Construction		M.S.	
	6. Ambient Temperature, °C		33.0	
	7. Flue Gas Temperature, °C		91.0	
	8. Velocity, m/sec.	IS 11255 (Part-3)	8.2	
	9. Atmospheric Pressure, mm. Hg		751.25	
	10. Moisture (%)		1.1	
	11. Volumetric Flow, NM ³ /hr.		303543.5	
	12. Sampling Point		42.5 m.	
			Concentration (mg / NM³)	Concentration through CEMS (mg / NM³)
				Limit as per E (P) Rules
	14. Particulate Matter (P.M.)	IS 11255 (Part-1)	25.4	24.75
				30.00 mg / NM ³



Handwritten Signature
23/03/2021
Authorized Signatory
Quality Manager / Dy. Quality Manager

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Annexure - 1



SHIVA TEST HOUSE

122 - C, Aastha, Road No. 5 A
Patliputra Colony ; Patna - 800 013
E.mail : sthpatna1@yahoo.co.in

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TEST REPORT

Ref. No. BCP/TR/20-21/1514 Dt : 21.10.2020 Your Ref. No.SCL/CC/Environment/19-20/WO-4860 Dt : 24.04.2019			
[a]	Name and address of the Customer	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoia More AURANGABAD - 824 101 ; Bihar	
[b]	Report to be submitted to	Unit Head	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 12.10.20	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	13.10.20	
	Parameters	Method of Test	Results
1.	Stack Connected to		Coal Mill Bag House
2.	Height of Stack (as reported)		35.5 m.
3.	Dia of Stack at Top (as reported)		1.2 m.
4.	Draft		ID Fan
5.	Material of Construction		M.S.
6.	Ambient Temperature, °C		36.0
7.	Flue Gas Temperature, °C		91.0
8.	Velocity, m/sec.	IS 11255 (Part-3)	8.4
9.	Atmospheric Pressure, mm. Hg		751.43
10.	Moisture (%)		1.1
11.	Volumetric Flow, NM ³ /hr.		27985.2
12.	Sampling Point		21.7 m.
		Concentration (mg / NM³)	Limit as per E (P) Rules
13.	Particulate Matter (P.M.)	IS 11255 (Part-1)	19.4 30.00 mg / NM ³



[Signature]

Authorized Signatory
Quality Manager / Dy. Quality Manager

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TEST REPORT

Ref. No. BCP/TR/20-21/4419 Dt : 23.03.2021 Your Ref. No.SCL/CC/Environment/19-20/WO-4860 Dt : 24.04.2019		
[a] Name and address of the Customer	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoiya More AURANGABAD - 824 101 ; Bihar	
[b] Report to be submitted to	Unit Head	
[c] Details of Sample	Monitoring of Stack Emission	
[d] Sample Collected by	SHIVA TEST HOUSE on 11.03.21	
[e] No. & Type of Container	Thimble & Glass Impinger	
[f] Items required to be tested	As per request	
[g] Whether any specific Method of Test has been suggested by the party	No	
[h] Date of receiving the sample	12.03.21	
Parameters	Method of Test	Results
1. Stack Connected to		Coal Mill Bag House
2. Height of Stack (as reported)		35.5 m.
3. Dia of Stack at Top (as reported)		1.2 m.
4. Draft		ID Fan
5. Material of Construction		M.S.
6. Ambient Temperature, °C		33.0
7. Flue Gas Temperature, °C		94.0
8. Velocity, m/sec.	IS 11255 (Part-3)	8.1
9. Atmospheric Pressure, mm. Hg		751.33
10. Moisture (%)		1.2
11. Volumetric Flow, NM ³ /hr.		26765.16
12. Sampling Point		21.7 m.
		Concentration (mg / NM³)
		Limit as per E (P) Rules
13. Particulate Matter (P.M.)	IS 11255 (Part-1)	21.6 30.00 mg / NM ³



[Signature]
23/03/2021
Authorized Signatory
Quality Manager / Dy. Quality Manager

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**Statistical interpretation of Ambient Air Quality Monitoring Report
October' 2020 - March' 2021**

S. No.	Location/ Month	Plant boundary towards Hostel				Plant boundary towards Main Gate				Plant boundary towards Water Harvesting Pond			
		PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x
01.	Oct-20	86	52	6	18	72	39	4	19	74	45	4	18
02.	Nov-20	46	22	5	15	49	25	4	15	41	22	4	14
03.	Dec-20	48	24	5	19	47	26	7	20	42	25	4	15
04.	Jan- 21	47	26	8	12	45	28	9	21	44	26	7	16
05.	Feb -21	54	30	9	11	56	31	8	20	50	29	6	11
06.	Mar -21	51	25	7	17	50	28	9	19	48	25	5	12
Minimum		46	22	5	11	45	25	4	15	41	22	4	11
Maximum		86	52	9	19	72	39	9	21	74	45	7	18
Median		49.5	25.5	6.5	16	49.5	28	7.5	19.5	46	25.5	4.5	14.5



Signature - 2
☎ : 0612 - 2263538 / 2261438



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TEST REPORT

Ref. No. BCP/TR/20-21/1509 Dt : 21.10.2020 Your Ref. No.SCL/CC/Environment/19-20/WO-4860 Dt : 24.04.2019					
[a]	Name and address of the Customer	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoiya More AURANGABAD - 824 101 ; Bihar			
[b]	Report to be submitted to	Unit Head			
[c]	Details of Sample	Monitoring of Ambient Air Quality			
[d]	Sample Collected by	SHIVA TEST HOUSE on 12.10.20			
[e]	No. & Type of Container	Filter Paper ; Glass Impinger			
[f]	Items required to be tested	As per request			
[g]	Whether any specific Method of Test has been suggested by the party	No			
[h]	Date of receiving the sample	13.10.20			
Parameters	Method of Test	Sampling Station			Limit as NAAQS Nov. '2009
		Near Colony	Roof of Transport Office	Near Boys Hostel	
1. Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	80.6	77.3	90.6	100 µg / m ³
		71.1	74.4	86.5	
		69.9	64.1	81.2	
2. Particulate Matter (PM _{2.5}), µg / m ³	CPCB	49.7	44.2	53.1	60 µg / m ³
		43.0	38.6	52.8	
		41.7	33.0	48.9	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	9.4	11.4	13.8	80 µg / m ³
		12.7	13.7	15.1	
		8.6	14.7	16.4	
		7.4	9.5	12.5	
		6.5	8.0	11.1	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	8.2	10.4	10.2	80 µg / m ³
		42.2	42.2	54.1	
		44.5	44.6	56.5	
		35.6	47.2	59.0	
		32.7	40.9	51.7	
24 Hrs. Average Value					
	PM ₁₀	73.9	71.9	86.1	
	PM _{2.5}	44.8	38.6	51.6	
	SO ₂	8.8	11.3	13.2	
	NO ₂	36.8	42.5	52.8	



[Signature]

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Quality Manager / Dy. Quality Manager

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Some photographs of measures taken for control the fugitive dust:



Raw Material Covered



Covered Conveyor Belts



Clinker Silos



Covered Hopper with Conveyor Belts



Vacuum Sweeping Machine 1



Vacuum Sweeping Machine 2



Truckmounted Road Sweeping Machine 3



Tanker for water sprinkling

Annexure - 4



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/s Bihar Cement Plant		
Project Address:	M/s Bihar Cement Plant, (a Unit Of Shree Cement Ltd.)		
Town:	Aurangabad (nagar Parishad)	Block:	Aurangabad
District:	Aurangabad	State:	Bihar
Pin Code:			
Communication Address:	Bihar Cement Plant (a Unit Of Shree Cement Limited), Jasoia More, Biada, Industrial Growth Centre, Aurangabad, Aurangabad, Bihar - 824101		
Address of CGWB Regional Office :	Central Ground Water Board Mid Eastern Region, 6th & 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road Dak Banglow, Patna, Bihar - 800011		

1. NOC No.:	CGWA/NOC/IND/REN/2/2021/5910											
2. Application No.:	21-4/123/BR/IND/2012	3. Category:	Safe									
4. Project Status:	Existing Ground Water	5. NOC Type:	Renewal									
6. Valid from:	06/12/2020	7. Valid up to:	05/12/2023									
8. Ground Water Abstraction Permitted:												
	Fresh Water		Saline Water									
	Dewatering		Total									
	m ³ /day	m ³ /year	m ³ /day									
	m ³ /day	m ³ /year	m ³ /day									
	350.00	121950.00										
9. Details of ground water abstraction /Dewatering structures												
	Total Existing No.:6						Total Proposed No.:0					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*	0	0	6	0	0	0	0	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps												
10. Ground Water Abstraction/Restoration Charges paid (Rs.):	391050.00											
11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers						Monitoring Mechanism					
							Manual	DWLR**	DWLR With Telemetry			
**DWLR - Digital Water Level Recorder	1						0	1	0			

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
 - 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
 - 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
 - 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
 - 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
 - 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
 - 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is/are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
 - 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
 - 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
 - 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
 - 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
 - 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
 - 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
 - 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
 - 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
 - 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
 - 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
 - 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
 - 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- (Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

**Statistical Interpretation of Noise Level (in Leq-dB (A) Monitoring Report
October' 2020 - March' 2021**

S. No.	Monitoring Location Month	Plant boundary towards main gate / NH - 98		Plant boundary towards reclaimer Area		Plant boundary towards Water Harvesting Pond	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
01.	Oct-20	68.5	58.6	63.5	56.7	59.7	49.8
02.	Nov-20	66.1	60.2	60.8	58.1	58.6	48.6
03.	Dec-20	65.8	59.4	62.1	56.4	57.6	52.1
04.	Jan- 21	63.5	58.8	62.7	56.8	57.5	50.5
05.	Feb -21	66.2	56.5	63.8	54.9	58.7	55.1
06.	Mar -21	62.4	57.8	60.7	55.3	58.5	51.7
Minimum		62.4	56.5	60.7	54.9	57.5	48.6
Maximum		68.5	60.2	63.8	58.1	59.7	55.1
Median		66.0	58.7	62.4	56.6	58.6	51.1



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TEST REPORT

Ref. No. BCP/TR/20-21/4424 Dt : 23.03.2021 Your Ref. No.SCL/CC/Environment/19-20/WO-4860 Dt : 24.04.2019	
[a] Name and address of the Customer	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoiya More AURANGABAD - 824 101 ; Bihar
[b] Report to be submitted to	Unit Head
[c] Details of Sample	Monitoring of Ambient Noise Level within factory periphery
[d] Monitored by	Shiva Test House on 11.03.21
[e] Items required to be tested	As per Instruction
[f] Whether any specific Method of Test has been suggested by the party	No
<i>Monitoring Location</i>	
<i>Time Weighted Average (TWA) of Noise Level (Daytime) in dB(A)</i>	
1. Near ADM Building	65.1
2. Near Main Gate	67.9
3. Near Transport Office	71.4
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.



Handwritten signature and date: 23/03/2021
Authorized Signatory
Quality Manager / Dy. Quality Manager

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[a]	Name and address of the Customer	BIHAR CEMENT PLANT(A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoia More AURANGABAD - 824 101 ; Bihar	
[b]	Report to be submitted to	Unit Head	
[c]	Details of Sample	Monitoring of Stack Emission	
[d]	Sample Collected by	SHIVA TEST HOUSE on 11.03.21	
[e]	No. & Type of Container	Thimble & Glass Impinger	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	12.03.21	
	Parameters	Method of Test	Results
	1. Type of Fuel		Diesel
	2. Stack Connected to		D.G. Set (500 KVA) Supernova
	3. Height of Stack (as reported)		12.1 M
	4. Dia of Stack at Top (as reported)		0.15 M
	5. Draft		Natural
	6. Material of Construction		M.S.
	7. Ambient Temperature, °C		33.0
	8. Flue Gas Temperature, °C		171.0
	9. Velocity, m/sec.	IS 11255 (Part-3)	8.6
	10. Atmospheric Pressure, mm. Hg		751.25
	11. Volumetric Flow Rate (NM ³ /hr.)		367.0
	12. Sampling Point		From the top of Exhaust
		Concentration (mg / NM³)	Limit as per E(P) Rules*
	13. Particulate Matter (P.M.)	IS 11255 (Part-1)	26.1
	14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	184.4
	15. Carbon Monoxide as CO	IS 13270 / 1992	30.0
	16. Non Methanic Hydrocarbons (as C)	CPCB	22.0
	* : Emission Standards for Diesel Engines for Power Plant, Generator Set Application and other Requirements		
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust		



23/03/2021
 Authorized Signatory
 Quality Manager / Dy. Quality Manager

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[a]	Name and address of the Customer	BIHAR CEMENT PLANT (A unit of Shree Cement Ltd.) Industrial Growth Centre ; Jasoia More AURANGABAD - 824 101 ; Bihar		
[b]	Report to be submitted to	Unit Head		
[c]	Details of Sample	Monitoring of Stack Emission		
[d]	Sample Collected by	SHIVA TEST HOUSE on 11.03.21		
[e]	No. & Type of Container	Thimble & Glass Impinger		
[f]	Items required to be tested	As per request		
[g]	Whether any specific Method of Test has been suggested by the party	No		
[h]	Date of receiving the sample	12.03.21		
	Parameters	Method of Test	Results	
1.	Type of Fuel		Diesel	
2.	Stack Connected to		D.G. Set (500 KVA) Super Nova	
3.	Height of Stack (as reported)		13.7 M	
4.	Dia of Stack at Top (as reported)		0.15 M	
5.	Draft		Natural	
6.	Material of Construction		M.S.	
7.	Ambient Temperature, °C		33.0	
8.	Flue Gas Temperature, °C		152.0	
9.	Velocity, m/sec.		IS 11255 (Part-3)	8.2
10.	Atmospheric Pressure, mm. Hg			751.44
11.	Volumetric Flow Rate (NM ³ /hr.)			365.5
12.	Sampling Point			From the top of Exhaust
			Concentration (mg / NM³)	
			Limit as per E(P) Rules*	
13.	Particulate Matter (P.M.)	IS 11255 (Part-1)	33.7 / 75.00 mg / Nm ³	
14.	Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	167.1 / 710.00 mg / Nm ³	
15.	Carbon Monoxide as CO	IS 13270 / 1992	24.0 / 150.00 mg / Nm ³	
16.	Non Methanic Hydrocarbons (as C)	CPCB	18.0 / 100.00 mg / Nm ³	
* : Emission Standards for Diesel Engines for Power Plant, Generator Set Application and other Requirements				
N.B.:	There is no provision of Sampling Porthole as per CPCB guidelines in the DG Set Exhaust			



Handwritten Signature
23/03/2021
Authorized Signatory
Quality Manager / Dy. Quality Manager

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
4. Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory.

POLLUTION UNDER CONTROL CERTIFICATE

Authorised By: GAYA
Transport Commissionerate, Bihar

Assurance - 7



TEST RESULT : PASS
VALID TILL: 01/Jul/2021

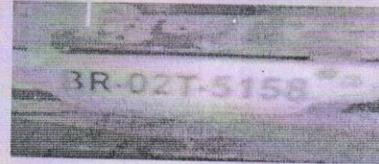
Certificate Sl. No.: BR00200320000146
Registration No.: **BR02T5158**
Owner Name: RAMANUJ KUMAR
VERMA
Chassis No.: MAT466420C2K24227
Engine No.: B591803221K63297325
Class of Vehicle: Goods Carrier
Make: TATA MOTORS LTD
Model: LPT3118TC
Vehicle Category: HEAVY GOODS VEHICLE
Date of Registration: 24/Nov/2012
Emission Norms: Bharat Stage III (CEV)
Fuel: DIESEL
Date of Testing: 02/Jan/2021
PUC Equipment
Manufacturer Name: I3SYS
PUC Equipment
Manufacturer Model: ECM1601
Name

DIESEL DRIVEN VEHICLES
Certified that the vehicle conforms to the standards
prescribed under rule 115(2) of CMV Rules 1989

FUEL	Light Absorption Coefficient (Permissible Limit)	Measured Value
DIESEL	2.45	0.217

Time of Testing: 13:00:26
Govt Fees: 200.0
Center Fees: 300.0
Fee Charged: Rs.500.0
Fee Charged: (five hundred rupees only)

Auto Emission Testing Centre Code: BR0020032
Testing Centre Name: MEHTA
AUTOMOBILES
Centre Address: MEHTA
AUTOMOBILES,SH-69 BANKEY BAZAR
GAYA,824217
Test Conducted By: LOKESH KUMAR



In case of any complain Please write to Transport
Commissioner Bihar

TEST RESULT FOR DIESEL VEHICLE

	IDLE RPM	MAX RPM	K_VALUE	OIL TEMP
TEST 1	840.0	1590.0	0.267	27.0
TEST 2	830.0	1750.0	0.267	27.0
TEST 3	830.0	1610.0	0.117	27.0
AVG	833.33334	1650.0	0.217	27.0

This is a computer generated certificate and does not require signature
Fuel Norms entered by PUC center BR0020032 manually, Please visit RTO and correct norms

POLLUTION UNDER CONTROL CERTIFICATE

Authorised By: AURANGABAD
Transport Commissionerate, Bihar



TEST RESULT : PASS
VALID TILL: 09/Aug/2021

Certificate Sl. No.: BR02600070002022
Registration No.: **BR01GA5021**
Owner Name: MD KHURSHID ALAM
Chassis No.: MAT42603192H*****
Engine No.: 90H627*****
Class of Vehicle: Goods Carrier
Make: TATA MOTORS LTD
Model: LPT 2515TC
Vehicle Category: HEAVY GOODS
VEHICLE
Date of Registration: 08/Sep/2009
Emission Norms: BHARAT STAGE III
Fuel: DIESEL
Date of Testing: 10/Feb/2021
PUC Equipment: Utkal Electronic
Manufacturer Name
PUC Equipment
Manufacturer Model: SSS-15
Name

DIESEL DRIVEN VEHICLES
Certified that the vehicle conforms to the standards prescribed under rule 115(2) of CMV Rules 1989

FUEL	Light Absorption Coefficient (Permissible Limit)	Measured Value
DIESEL	2.45	1.05334

Time of Testing: 11:11:35
Govt Fees: 200.0
Center Fees: 300.0
Fee Charged: Rs.500.0
Fee Charged: (five hundred rupees only)

Auto Emission Testing Centre Code: BR0260007
Testing Centre Name: CHIRAG KESHAW FILLING STATION
Centre Address: SADIPUR DEHRI, OBRA, 824124
Test Conducted By: SANJIV KHEMKA



In case of any complain Please write to Transport Commissioner Bihar

TEST RESULT FOR DIESEL VEHICLE

	IDLE RPM	MAX RPM	K VALUE	OIL TEMP
TEST 1	710.0	2950.0	1.13	28.0
TEST 2	720.0	2990.0	1.01	28.0
TEST 3	700.0	3050.0	1.02	28.0
AVG	710.0	2996.66667	1.05334	28.0

This is a computer generated certificate and does not require signature
Fuel Norms entered by PUC center: BR0260007 manually, Please visit RTO and correct norms

Sanjiv Khemka

Bihar

SAKSHI  *Diagnostic & Research Centre*
(An ISO 9001:2008 Certified)

Name :	Mr.Santosh Thakur	Age /sex	36 Years/M
Referred by :	Shree Cement Ltd.Abd.	Date :	10.01.2021

Thanks for Referral			
Parameters	Result		Limit
White Blood Cell	9.1	x 10 ⁹ /l	4.0-10.0
Lymphocyte %	44.5	%	20.0-40.0
Mid-sized cell %	5.0	%	1.0-15.0
Granulocyte %	50.5	%	50.0-70.0
Lymphocyte	4.0	x10 ⁹ /l	0.6-4.1
Mid-sized cell	0.5	x 10 ⁹ /l	0.1-1.8
Granulocyte	4.5	x 10 ⁹ /l	2.0-7.8
Red Blood Cell	4.17	x10 ¹² /l	3.50-5.50
Hemoglobin	13.0	g/dl	11.5-16.5
Hematocrit	36.3	%	36.0-48.0
Mean Corpuscular (erythrocyte) Volume (MCV)	87.1	fl	80.0-99.0
Mean Cell Hemoglobin (MCH)	31.2	pg	26.0-32.0
Mean Cell Hemoglobin Concentration (MCHC)	35.8	g/dl	32.0-36.0
Red Blood Cell (erythrocyte) Distribution Width	56.3	fl	37.0-54.0
Standard of Variation (RDW-SD)			
Red Blood Cell (erythrocyte) Distribution Width	12.4	%	11.5-14.5
Coefficient of Variation (RDW-CV)			
Platelet Group	165	x 10 ⁹ /l	100-400
Mean Platelet Volume	10.3	fl	7.4-10.4
Platelet Distribution Width	14.6	%	10.0-17.0
Plateletcrit	0.17	%	0.10-0.28
P-LCR	32.1	%	13.0-43.0



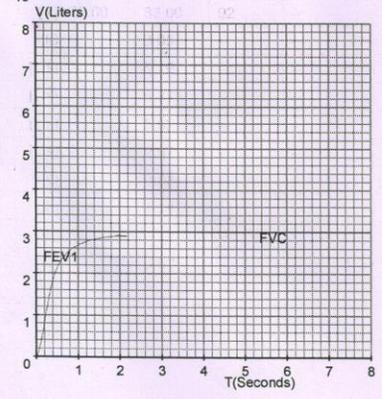
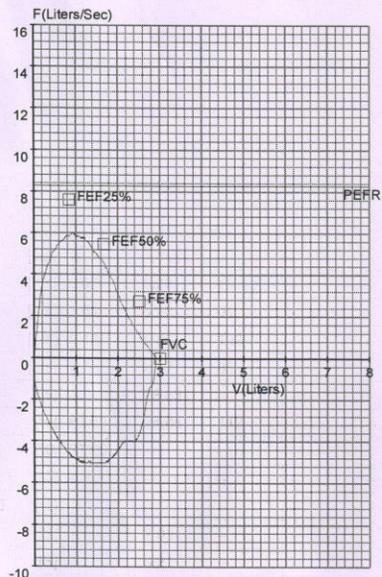
Dr. Ram Bhajan Chaudhary
M.B.B.S., M.D. (Pathology)

Note: If there is Disparity with clinical setting, please contact immediately to lab
Kunda House, M.G. Road, Aurangabad, Bihar-824101
Email: sakshidigital2013@gmail.com, Mobile: +91-9199653581

Annexure - 8

1052 - MR. SANTOSH THAKUR Pred Eqn : CLARITY Eth.Corr : 100 Temp : 0°C
 36 Years / Male / Ht 160 Cms / 70 Kgs / Non-Smoker Date: 10-01-2021 (T1) Ref By : SHREE CEMENT LTD.

FVC TEST
 Date: 10-01-2021 (T1)

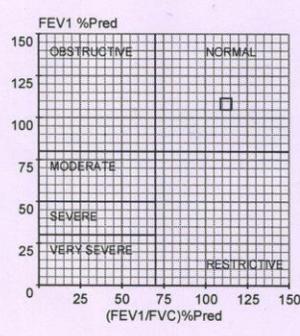
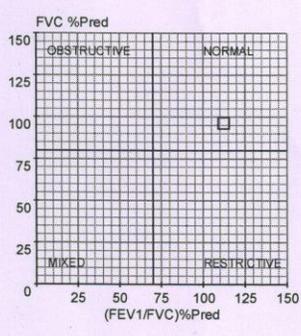


Parameter	Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L]	3.01	2.89	96	--	--
FEV1	[L]	2.51	2.72	108	--	--
FEV.5	[L]	--	2.27	--	--	--
FEV3	[L]	2.92	--	--	--	--
FEV6	[L]	--	--	--	--	--
PEFR	[L/s]	8.28	6.02	73	--	--
FEF25-75	[L/s]	3.93	4.87	124	--	--
FEF75-85	[L/s]	--	1.84	--	--	--
FEF.2-1.2	[L/s]	6.65	5.23	79	--	--
FEF25%	[L/s]	7.61	6.90	91	--	--
FEF50%	[L/s]	5.48	5.80	106	--	--
FEF75%	[L/s]	2.74	2.27	83	--	--
FEV.5/FVC	[%]	--	78.63	--	--	--
FEV1/FVC	[%]	83.63	94.05	112	--	--
FEV3/FVC	[%]	97.00	--	--	--	--
FEV6/FVC	[%]	--	--	--	--	--
FEV1/FEV6	[%]	--	--	--	--	--
FET	[S]	--	2.09	--	--	--
ExptTime	[S]	--	0.21	--	--	--
LungAge	[Y]	36.00	33.00	92	--	--
FVC	[L]	--	3.05	--	--	--
PIFR	[L/s]	--	5.10	--	--	--
FIF25%	[L/s]	--	6.71	--	--	--
FIF50%	[L/s]	--	5.52	--	--	--
FIF75%	[L/s]	--	2.67	--	--	--
FIV.5	[L]	--	0.02	--	--	--
FIV1	[L]	--	1.14	--	--	--
FIV3	[L]	--	--	--	--	--
FIV.5/FVC	[%]	--	0.52	--	--	--
FIV1/FVC	[%]	--	37.30	--	--	--
FIV3/FVC	[%]	--	--	--	--	--

- Pre Medication Report :
 Spirometry within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report:
 COPD Severity within Normal range

- Doctor's Comments :



Dr. SONIA K. JOSEPH

Note: The results may be clinically correlated.

SAKSHI  *Diagnostic & Research Centre*

Reg. No. : AUR/CE/P27/ALL/2019

(An ISO 9001:2008 Certified)

ID:	10.01.21 00979	Name:	SANTOSH THAKUR
Age:	36 years	Sex:	M
Ref Dr.:	SHREE CEMENT	Study:	
Date:	10-Jan-2021		

X-RAY CHEST (PA) VIEW

Trachea centrally placed.

Both hilar shadows appear normal.

Both lung fields are clear.

Both costo and cardio phrenic angle is clear.

Cardiothoracic ratio is within normal limits.

Soft tissue and bony cage appear normal.

Both hemidiaphragms are well outlined.

IMPRESSION : Normal study.



Dr. Anoop Sastry
Consultant Radiologist

Note: If there is Disparity with clinical setting, please contact immediately to lab
Kunda House, M.G. Road, Aurangabad, Bihar-824101
Email: sakshidigital2013@gmail.com, Mobile: +91-9199653581

CSR expenses through SFT

Code	Booking Head	Particulars	Total
A13	Expenses incurred to fight against COVID-19	PURCHASING OF NEPSEK SPRAYER FOR CSR ACTIVITIES FOR COVID-19	43,904
A13	Expenses incurred to fight against COVID-19	PURCHASING OF SOAPS FOR DISTRIBUTION PERIPHERAL AREAS OF AURANGABAD (BIHAR)	17,503
A13	Expenses incurred to fight against COVID-19	SUPPLY OF NON CONTACT INFRARED THERMOMETER FOR COVID-19	413,472
A13	Expenses incurred to fight against COVID-19	SUPPLY OF PPE KIT STANDARD FOR COVID-19	69,300
A13	Expenses incurred to fight against COVID-19	SUPPLY OF GROCERY MATERIAL FOR CSR ACTIVITIES FOR COVID-19	125,424
A13	Expenses incurred to fight against COVID-19	PURCHASING OF HAND WASH FOR DISTRIBUTION PERIPHERAL AREAS OF AURANGABAD (BIHAR)	7,200
A13	Expenses incurred to fight against COVID-19	SUPPLY OF PPE KIT FOR DISTRIBUTION IN PERIPHERAL AREAS OF AURANGABAD	63,000
A13	Expenses incurred to fight against COVID-19	PURCHASING OF SANITIZATION & CHLOTH FACE MAKES FOR COVID-19	22,048
A13	Expenses incurred to fight against COVID-19	SUPPLY OF SODIUM HYPOCHLORITE & EMPTY PET BOTTLE WITH SPRAY FOR DISTRIBUTION IN PERIPHERAL AREAS OF AURANGABAD	10,494
A13	Expenses incurred to fight against COVID-19	SUPPLY OF SODIUM HYPOCHLORITE & SR BI-CLEAN HAND RUB FOR DISTRIBUTION IN PERIPHERAL AREAS OF AURANGABAD	97,000
A13	Expenses incurred to fight against COVID-19	SUPPLY OF EMPTY PET BOTTLE WITH SPRAY PUMP	747
A13	Expenses incurred to fight against COVID-19	PURCHASING OF SPRAYING MACHINE FOR COVID-19	4,999
A13	Expenses incurred to fight against COVID-19	SUPPLY OF HAND SANITIZER SOLUTION FOR DISTRIBUTION IN PERIPHERAL AREAS OF AURANGABAD	10,000
A13	Expenses incurred to fight against COVID-19	SUPPLY OF HAND SANITIZER SOLUTION	345,150
A13	Expenses incurred to fight against COVID-19	PAID TO JAN KALYAN SAMITI PATNA CONTRIBUTION AGST. FIGHTING FOR COVID-19.	51,000
A13	Expenses incurred to fight against COVID-19	SUPPLY OF SURGICAL SPIRIT & GLOVES FOR COVID-19	6,180

Annexure - 9

A13	Expenses incurred to fight against COVID-19	PURCHASING OF PPE KIT & NON CONTACT THERMAMETER NCT-01 FOR CSR ACTIVITIES	17,595
A13	Expenses incurred to fight against COVID-19	PURCHASE OF TESTING KIT SYSTEM FOR COVID-19 (5 nos.)	7,280,000
G1	Construction and leveling of CC roads of nearby villages	CONSTRUCTION OF 590 METER WBM ROAD IN RAIPURA VILLAGE AT AURANGABAD BIHAR	643,481
A13	Expenses incurred to fight against COVID-19	FLEX BANNER 12 NOS MAKING FOR COVID-19	1,260
A13	Expenses incurred to fight against COVID-19	SOAPS FOR DISTRIBUTED IN PERIPHERAL AREAS OF AURANGABAD BIHAR TO PREVENTION OF COVID-19 AS PER ATTACHED DETAIL.	10,805
A6	Contribution and support for various socio and cultural programme at nearby areas	DISTRIBUTION OF SWEETS AT NEARBY AREA	182,070
G1	Construction and leveling of CC roads of nearby villages	BEING INV ADJ TOWARDS PAYMENT FOR INSTALLATION OF RUMBLE STRIPS UNDER ROAD SAFETY FOR NATIONAL HIGHWAY 139 OF DIFFERENT PLACES AS PER ATTACHED DETAIL.	26,600
A13	Expenses incurred to fight against COVID-19	PPE KIT FOR MEDICAL USE/ INFRARED THERMOMETER GUN/SODIUM HYPOCHLORITE SOLUTION 10%/FACE MASK (SURGICAL)	113,501
G1	Construction and leveling of CC roads of nearby villages	BEING INVOICE ADJUSTED TOWARDS CONSTRUCTION OF 496 METER WBM ROAD INBHARTHAULI SARIF VILLAGE AT AURANGABAD BIHAR (MATERIAL PART) UNDER CSR SFT ACTIVITIES WITH REF WO-SFT/CC/BGU/CIVIL/19-20/WO-5357A.	435,990
G4	Facilities development at Govt Departments	BEING INVOICE ADJUSTED TOWARDS FABRICATION AND ERECTION OF POLICE POST (ON NH FROM GAYA TO BARUN) & ROAD BARRIERS FOR DIST ADMIN,AURANGABAD UNDER CSR SFT ACTIVITIES WITH REF JOB CARD NO-2020-21/0059.	39,549
H1	Salaries paid to employees engaged in CSR work	Being Expense Booked Towards BGU CSR Salary For The Month Of apr-20. (J.V No-40000144 On Dated-30/Apr/20),By-Shri Anil Kumar Jain(10061).	895,548

Annexure - 9

A8	Financial help for medical treatment for accident victims/ financial aid to dependents	Being Cheque Issued Towards A Cement Vehicle Driver Dead Accident Happened At Truck Yard Outside The Plant.	250,000
G6	Cement and Steel issued from SCL for construction of road/ structures	Being material issued towards fabrication and erection of 02 nos police post (on NH from gaya to barun) & 10 nos road barriers with reference job card no-BGU/2020-21/0059.	87,146
A2	Administrative expenses of Health Management Centres including medicines, ambulance maintenance and running charges	BEING MEDICAL EXP AND AMBULANCE EXP FOR THE FINANCIAL EXP YEAR 2020-21 NOW TRANSFER TO CSR A/C - E5019	93,270
B14	Stipend to Summer interns/ Apprentice	Stipend to Summer interns/ Apprentice	1,021,161
TOTAL			12,385,395

Annexure-10

BIHAR CEMENT PLANT, AURANGABAD- PRE-EMPLOYMENT MEDICAL CHECK UP OF CONTRACT WORKERS				
PRELIMINARY PARTICULARS				
SL.No	Date	Name	DOB.	Age/Sex
	09/02/2021	Santosh Dam	15-01-1984	31y / M
Emp.ID/Gate Pass No	Aadhar/Voter ID No	F Name	Contractor/Agency	Department
	953968635167	Santosh Dam	SACE / Noida	Packing Plant
Address /Mob. No.				
Vill- Son Buraq Post, Jajha, Thana. Hecraabad, Jajha, Palamli 822117				
History/Self Declaration (Yes/No)				
Diabetec	High BP	Backache	Mental Illness	Chewing
NO	NO	NO	NO	NO
Vertigo	Skin Disease	Hight Phobia	Hearing Problem	Alcohol Intake
NO	NO	NO	NO	NO
Tobacco	Dyspnoea	Piles, Fissure	Any Chronic Illness	Convulsion
NO	NO	NO	NO	NO
General Examination				
Height	Weight	BMI	Pallor	Built
170cm	67kg		NO	NO
Clubbing	Pulse Rate	B.P.	Chest Inspiration	Chest Expiration
NO	76/min	120/80 mmHg	28cm	20cm
Any Other Findings				
NO				
Systemic Examination				
Heart Sounds	Murmur IF Any	Chest Shape	Chest Movement	Varicose Veins
S1 S2	NO	Normal	Normal	NO
Breath Sounds	Liver	Spleen	Haemorrhoids/Fissure	Any Neurological Defect
S1 S2	NO	Normal	NO	NO
Any Abdominal Lump	Hernia Hydrocoel	Squint	Nystagmus	Muscle Strength
NO	NO	NO	NO	NO
Distant Vision	Near Vision	Colour Vision		
6/6	6/6	Normal		
Investigation				
Hb%	TLC	DLC	Blood Group	Blood Sugar-F/PP
			Stve	
<p>Signature of Person Examined</p>		<p>Opinion - Fit/Unfit</p> <p>Fit</p>		
		<p>Signature of Medical Officer</p> <p>Regd. No.-15407 (Bihar)</p> <p>Medical Officer</p> <p>Bihar Cement Plant</p> <p>(A Unit Of Shree Cement Ltd.)</p>		

Annexure-10

BIHAR CEMENT PLANT, AURANGABAD- PRE-EMPLOYMENT MEDICAL CHECK UP OF CONTRACT WORKERS					
PRELIMINARY PARTICULARS					
SL.No	Date	Name	DOB.	Age/Sex	
	03-02-2021	Abhishek Kumar	21-02-1995	24y/m	
Emp.ID/Gate Pass No	Aadhar/Voter ID No	F. Name	Contractor/Agency	Department	
	623647611819	Vijay Singh	M/S. Vijay Electrical	Electrical	
Address /Mob. No.	Pansa Aurangabad Kamma. Bhagwanpur Bihar 824102				
History/Self Declaration (Yes/No)					
Diabetec	High BP	Backache	Mental Illness	Chewing	
NO	NO	NO	NO	NO	
Vertigo	Skin Disease	Hight Phobia	Hearing Problem	Alcohol Intake	
NO	NO	NO	NO	NO	
Tobacco	Dyspnoea	Piles, Fissure	Any Chronic Illness	Convulsion	
NO	NO	NO	NO	NO	
General Examination					
ht	Weight	BMI	Pallor	Built	
173cm	74kg		NO	NO	
Clubbing	Pulse Rate	B.P.	Chest Inspiration	Chest Expiration	
NO	76/min	120/80mmHg	89cm	94cm	
Any Other Findings					
NO					
Systemic Examination					
Heart Sounds	Murmur IF Any	Chest Shape	Chest Movement	Varicose Veins	
S ₁ S ₂	NO	Normal	Normal	NO	
Breath Sounds	Liver	Spleen	Hemorrhoids/Fissure	Any Neurological Defect	
S ₁ S ₂	Normal	Normal	NO	NO	
Any Abdominal Lump	Hernia Hydrocoel	Squint	Nystagmus	Muscle Strength	
	NO	NO	NO	NO	
Distant Vision	Near Vision	Colour Vision			
6/6	6/6	Normal			
Investigation					
Hb%	TLC	DLC	Blood Group	Blood Sugar-F/PP	
			A+ve		
Opinion - Fit/Unfit					
Sign of Person Examined Abhishek - Kumar			Sign of Medical Officer Dr. S.P. Singh Regd. No.-15407(Bihar) Medical Officer Bihar Cement Plant (A Unit Of Shree Cement Ltd.)		