

# Ambuja Cement

ACL/SK/ENV/06-20/18  
Date: 05.06.2020

The Additional Principal Chief Conservator of Forest  
The Ministry of Environment Forest & Climate Change,  
Eastern Regional Office,  
A/3, Chandrasekharapur,  
Bhubaneswar-751023  
Orissa

**Sub: Six Monthly Compliance Report towards Environment Clearance dated 23.06.2011 for the period October-2019 to March-2020**

**Ref: EC letter no. J-11011/547/2010-IA-II (I) dated 23.06.2011**

Dear Sir,

As per provisions of EIA Notification 2006, please find attached herewith the subject report for the period from October-2019 to March-2020.

Thanking you,  
Yours faithfully,

For Ambuja Cements Ltd.  
Unit: Sankrail

  
(Authorized Signatory)

CC to :

(i) The Scientist D, CPCB Zonal Office, South End Conclave, Block 508, 1582 Rajdanga Main Rd, Kol -700707

(ii) Sr. SEE (EIM), WBPCB, Paribesh Bhavan, Salt lake, Kolkata-700098

## AMBUJA CEMENTS LIMITED

Unit : Sankrail

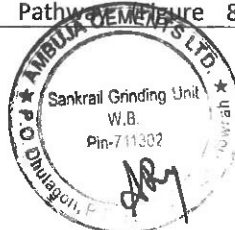
Jaladhulagori, Vill. & P.O. : Dhulagori, P.S. : Sankrail, Dist. : Howrah (W.B.) - 711302  
Phone : 033 - 6608 7100 (4 Lines), Fax : 033 2679 8423

(Regional Off. : "INDICON VIVA", 6th Floor, 53A, Leela Roy Sarani, Kolkata - 700 019, Phone : 033 - 4403 3900, Fax : 2461 7744 / 8413)  
(Regd. Off. : P.O. : Ambujanagar, Taluka : Kodinar, District : Gir Somnath, Gujarat - 362715)  
CIN Nos. L26942GJ1981 PLC004717, Website : www.ambujacement.com

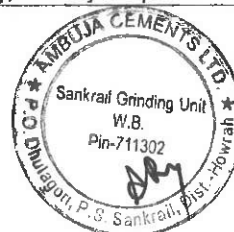
Compliance Status of Environmental Clearance Conditions accorded by MoEF for existing Cement grinding unit of capacity 2.4 MTPA at Village Jala Dhulagori, Tehsil Sankrail, District- Howrah in West Bengal of M/S Ambuja Cements Limited.

Ref. No. J-11011/547/2010-IA-II (I) dated 23.06.2011

A	Specific Condition	Status of Compliance
	Condition	
i	Particulate emissions shall be controlled within 50 mg/Nm <sup>3</sup> 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 Bhubaneswar, SPCB and CPCB regularly	As per MoEF & CC Notification dated 10th May 2016, particulate matter Emission is maintained below the 30 mg / Nm <sup>3</sup> in all stacks by installing Bag house in Roller press & Bag filter in all remaining stacks. Stack & Ambient monitoring result monitored by NABL accredited laboratory [R V Briggs & Co. Private Ltd.] is mentioned in <i>Annexure I</i> . Ambient Air data is provided in <i>Annexure II</i> . Fugitive emission data is provided in <i>Annexure III</i> .
ii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 should be followed	Ambient Air data is provided in <i>Annexure II</i> .
iii	Gaseous emissions including secondary 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	Since Ambuja Cements Limited, Unit : Sankrail is a grinding unit hence there is no occurrence of gaseous emission.
iv	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyors should be covered with GI sheets. Covered sheds for storage raw materials and fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling	The company has installed adequate No. of Bag Filters throughout the plant for dust collection and extraction system to control fugitive dust emissions at various transfer points (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas. Raw Mill is not installed at Sankrail plant, since it is a cement grinding unit. Gypsum Stock piles are stored under covered shed (Figure 1) Clinker is stored inside two no. silos of 25,000 MT each (Figure 3). Fly-Ash is stored inside a 4000 MT Silo. – (Figure 4). Finished Cement is stored in 4 no. Cement Silos of 5,000 MT (Figure 5). All conveyors are covered with GI sheets (Figure 2) Fly Ash is handled through Pneumatic system (Figure 7)
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 road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control	All internal roads in the plant are concreted / pitched. Water sprinkler is used for dust suppression at the raw material stock yards, cement bag loading areas, truck yard and roads. Water sprinkling record is attached in Annexure IX. Photograph of Bag Filter, water sprinkler arrangement and mobile road sweeping machine is provided in Figure 6, 10, 11 & 15. Pedestrian Pathway (Annexure 8) inside the factory



	Board in this regard	premises are constructed to ensure safe vehicular movement beside concreted road (Figure 9).  Ambient Air data is provided in Annexure II.
vi	Efforts shall be made 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 overloaded. Vehicular emissions should be regularly monitored	Clinker and Gypsum are transported to the plant through covered wagons (Figure 12) Fly-ash is transported through closed bulkers only and over loaded quantity is not allowed. (Figure 7). Vehicular Emission is regularly monitored at main gate through checking of vehicle Pollution Certificate under PUC norms.
vii	Total ground water requirement shall not exceed 270 m <sup>3</sup> /day and necessary permission from the competent authority for the drawl of water shall be obtained. Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater 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 wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted.	Ground water consumed for the period is within 270 m <sup>3</sup> per day and continuous efforts are made for water conservation through developing STP effluent water utilization. Permission obtained from Ground Water Resource Development Authority, Govt. of West Bengal. Permit No. P060900201074000000ITLE dt. 21.06.2011 & P060900201963000000ITSE dt. 13/02/2012 for 180 m <sup>3</sup> /day & 90 m <sup>3</sup> /day drawn of ground water through Tube wells. The copies of the permissions are provided in Annexure IV & V. Waste water treatment scheme is based on "Zero Discharge" concept. Waste water is recycled and reused to minimize fresh water usage. Present treated water discharged from STP being used for gardening & dust suppression within plant boundary. (Figure 10 & 13). Cement grinding process is a dry process hence no waste water is generated.
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	For the purpose of Roof top rain water harvesting we have earmarked a area in colony building roof top and all efforts are being given to start the harvesting as soon as possible. Already we have laid the pipe network but due to the Cyclone Amphan, some of them got damaged which needs to be restored.
ix	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / re-processors only	All the bag filter dust, clinker dust and cement dust from pollution control devices are recycled and reused in the process used for cement manufacturing. Spent oil is sold to authorized recyclers / re-processors only. Batteries are recycled under buy-back scheme by the suppliers. Sample proof attached along with Hazardous waste Authorization.
x	Green belt shall be developed in at least 33% area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO	Out of the total existing plant area i.e. 18.36 ha, 4.80 ha area has already been developed into green belt / plantation and continuous effort is made to develop more of area into plantation. Local species have been planted as per guidelines. Survival rate is 95%. Around 70 Nos. of different plants varieties [eg. Akashmoni, Mahogany, Sissoo] are planted during this period.



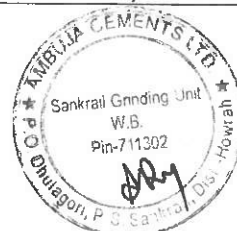
xi	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner	For this period from October-2019 to March-2020, we have incurred Rs. 1,64,00,534 towards CSR. Details attached in Annexure X.
B	General Condition	
i	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government	Noted.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests	Noted.
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	Since it is a cement grinding unit no gaseous emission occurred during process
iv	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months	Stack emission [Annexure-I] & Ambient air quality [Annexure-II] measured by third party and continuous ambient air quality monitoring data are submitted along with this report.
v	Industrial wastewater 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 wastewater shall be utilized for plantation purpose	No industrial waste water is generated as this is a cement grinding unit, which has a dry process plant. Domestic waste water is collected in sewage treatment plant [zero discharge concepts] and recycled and reused to minimize fresh water usage. Present water discharged from STP being used for gardening & dust suppression within plant boundary for which three 20KL tank has been installed to collect the water and further using through water tanker for dust suppression. (Figure 10 & 13). STP water analysis report attached in Annexure VI.
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 (nighttime)	The overall noise levels are monitored in and around the plant area and are within the prescribed limits. Proper noise control measures are used in plant area and PPE are used for more than five minutes exposure of high noise area.
vii	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act	Health check up of all employee including contractual workmen has been conducted regularly as per Factories Act and it is a regular process and record has been maintained. The last Health check is done in November



*Compliance of Environmental Clearance Conditions for Ambuja Cements Grinding Unit of Capacity 2.4 MTPA at Village Jaladhulagori, Tehsil- Sankrail, District -Howrah in West bengal*

*(Period: Oct-2019 to Mar-2020)*

		2019 which includes test of blood, urine, ECG, PFT, Audiometry, Eye test, Skin test.
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	Ground water recharging is not permissible as per the NoC of West Bengal Pollution Control Board. Water savings done through Systematic Rice Intensification (SRI) cultivation and Rain water harvesting by digging pond in villages by Ambuja Cement Foundations.
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 socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply & health care etc	Noted. Photographs along with detailed activities are attached in Annexure X.
x	As proposed, Rs 2.0 Crores and Rs. 0.20 Crores 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 Bhubaneswar. The funds so provided shall not be diverted for any other purpose	The cost incurred to maintain environment pollution control measures during this period of Oct 2019 -March 2020 is Rs. 3,33,170 towards Bag filter maintenance.
xi	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent	<p>The copies of clearance letter has been sent to Dhulagori Gram Panchayat on dt. 20/08/2011, Zilla Parishad on dt. 20/08/2011.</p> <p>No suggestion is received from the above bodies.</p> <p>The clearance letter has also been put in company website.</p>
xii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain	<p>Online CAAQMS has been installed. This has been started from the month of April 2012. Data has been uploaded in website.</p> <p>The critical parameters are displayed on the main gate of the company.</p> <p>SO<sub>2</sub>, NO<sub>x</sub> data of ambient measured by third party are attached in Annexure-II</p>
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 this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions	Noted
xiv	The environmental statement for each financial year	The Form-V for the year ended 31 <sup>st</sup> March 2019 has



*Compliance of Environmental Clearance Conditions for Ambuja Cements Grinding Unit of Capacity 2.4 MTPA at Village Jaladhulagori, Tehsil- Sankrail, District -Howrah in West bengal*

*(Period: Oct-2019 to Mar-2020)*

	ending 31 <sup>st</sup> 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 Bhubaneswar by e-mail.	been submitted to West Bengal Pollution Control Board on 04/09/2019. It has been uploaded in website also.  For this financial year (ended 31st March'20), we are preparing the details. By this month we will submit the same with a copy to MOEF, Bhubaneswar.
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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar	Newspaper publications on 29 <sup>th</sup> June 2011 are enclosed in Annexure VII.
xvi	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work	The copy of NoC has been sent to MoEF and Regional Office on dt 26/12/2011



Annexure - I

## ***STACK GAS***



# R. V. BRIGGS & CO. PRIVATE LTD.

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TAHER MANSION, 1ST FLOOR

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CIN : U51109WB1931PTC007007



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## TEST REPORT

No. AP-FG/19-20/714

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 24.12.2019 at 03:25 P.M. to 03:53 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to	: Cement Mill No.-1 ( Hopper )				
2. Emission due to	: Material Transferring				
3. Material of construction of stack	: M.S				
4. Shape of stack	: Circular				
5. Whether stack is provided with permanent platform & ladder :	Yes				
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 30.0 M	(b) from roof level : ---				
2. Diameter of the stack (a) at bottom : ---	(b) at top : 0.60 M				
3. Diameter of the stack at sampling point	: 0.60 M				
4. No. of Traverse point	: 8 Nos.				
5. Height of the sampling point from GL	: 22.2 M				
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil	2. Fuel consumption : Nil				
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1008 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	52	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	18.49	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	16485	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.3	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	16.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

-: END OF TEST REPORT :-



( J. MUKHERJEE )  
Quality Manager

Authorised Signatory  
For R.V.BRIGGS & CO. (P) LTD.

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## TEST REPORT

No. AP-FG/19-20/715

Date: January 01, 2020

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<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 24.12.2019 at 02:40 P.M. to 03:09 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General Information about stack :</b>					
1. Stack connected to	: Cement Mill No.-2 ( Hopper )				
2. Emission due to	: Material Transferring				
3. Material of construction of stack	: M.S				
4. Shape of stack	: Circular				
5. Whether stack is provided with permanent platform & ladder	: Yes				
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 30.0 M	(b) from roof level : ---				
2. Diameter of the stack (a) at bottom : ---	(b) at top : 0.60 M				
3. Diameter of the stack at sampling point	: 0.60 M				
4. No. of Traverse point	: 8 Nos.				
5. Height of the sampling point from GL	: 22.2 M				
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil	2. Fuel consumption : Nil				
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1015 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	49	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	17.84	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	16057	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	11.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

:- END OF TEST REPORT :-



(J. MUKHERJEE)  
Quality Manager

Authorised Signatory  
For R.V.BRIGGS & CO. (P) LTD.

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## TEST REPORT

No. AP-FG/19-20/716

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, VIII & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 23.12.2019 at 04:30 P.M. to 04:54 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to	: Cement Mill No.-2 ( OSEPA )				
2. Emission due to	: Cement Grinding				
3. Material of construction of stack	: M.S				
4. Shape of stack	: Circular				
5. Whether stack is provided with permanent platform & ladder	: Yes				
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 32.0 M	(b) from roof level : ---				
2. Diameter of the stack (a) at bottom : ---	(b) at top : 1.05 M				
3. Diameter of the stack at sampling point	: 1.05 M				
4. No. of Traverse point	: 12 Nos.				
5. Height of the sampling point from GL	: 22.6 M				
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil	2. Fuel consumption : Nil				
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 752 mmHg.					
Volume of Gas Sample : 1032 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	88	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	11.25	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	27747	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	09.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

:- END OF TEST REPORT :-



(S. MUKHERJEE)

Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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(AN ISO 9001:2015 CERTIFIED COMPANY)

TAHER MANSION, 1ST FLOOR

9, BENTINCK STREET, KOLKATA - 700 001

Ph. : 2248-3661/2698/7803, 2262-4153/4154, Fax : 33 2248-0447

E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com

CIN : U51109WB1931PTC007007



NABL ACCREDITED  
LABORATORY  
Certificate No. TC-7815

## TEST REPORT

No. AP-FG/19-20/717

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 23.12.2019 at 02:50 P.M. to 03:28 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to : Cement Mill No.-1 ( Mill Venting )					
2. Emission due to : Cement Grinding					
3. Material of construction of stack : M.S					
4. Shape of stack : Circular					
5. Whether stack is provided with permanent platform & ladder : Yes					
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 32.0 M (b) from roof level : ---					
2. Diameter of the stack (a) at bottom : --- (b) at top : 1.05 M					
3. Diameter of the stack at sampling point : 1.05 M					
4. No. of Traverse point : 12 Nos.					
5. Height of the sampling point from GL : 22.6 M					
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil 2. Fuel consumption : Nil					
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 752 mmHg.					
Volume of Gas Sample : 1026 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	80	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	6.90	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	17407	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	08.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

:- END OF TEST REPORT :-



(J. MUKHERJEE)  
Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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No. AP-FG/19-20/718

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<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 23.12.2019 at 03:40 P.M. to 04:16 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to : Cement Mill No.-2 ( Mill Venting )					
2. Emission due to : Cement Grinding					
3. Material of construction of stack : M.S					
4. Shape of stack : Circular					
5. Whether stack is provided with permanent platform & ladder : Yes					
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 32.0 M (b) from roof level : ---					
2. Diameter of the stack (a) at bottom : --- (b) at top : 1.05 M					
3. Diameter of the stack at sampling point : 1.05 M					
4. No. of Traverse point : 12 Nos.					
5. Height of the sampling point from GL : 22.6 M					
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil 2. Fuel consumption : Nil					
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 752 mmHg.					
Volume of Gas Sample : 1044 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	86	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	7.59	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	18824	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.3	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	12.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

-: END OF TEST REPORT :-



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Quality Manager

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## TEST REPORT

No. AP-FG/19-20/719

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 26.12.2019 at 11:50 A.M. to 12:26 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to : Roller Press					
2. Emission due to : Cement Grinding					
3. Material of construction of stack : M.S					
4. Shape of stack : Circular					
5. Whether stack is provided with permanent platform & ladder : Yes					
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 71.5 M (b) from roof level : ---					
2. Diameter of the stack (a) at bottom : --- (b) at top : 1.5 M					
3. Diameter of the stack at sampling point : 1.5 M					
4. No. of Traverse point : 12 Nos.					
5. Height of the sampling point from GL : 36.0 M					
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil 2. Fuel consumption : Nil					
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1008 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	82	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	7.12	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	36396	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	10.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

-: END OF TEST REPORT :-



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Quality Manager

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## TEST REPORT

No. AP-FG/19-20/720

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 25.12.2019 at 03:30 P.M. to 04:20 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to : Packer - 1					
2. Emission due to : Cement Packing					
3. Material of construction of stack : M.S					
4. Shape of stack : Circular					
5. Whether stack is provided with permanent platform & ladder : Yes					
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 30.0 M (b) from roof level : —					
2. Diameter of the stack (a) at bottom : --- (b) at top : 1.0 M					
3. Diameter of the stack at sampling point : 1.0 M					
4. No. of Traverse point : 12 Nos.					
5. Height of the sampling point from GL : 21.0 M					
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil 2. Fuel consumption : Nil					
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1000 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	47	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	10.66	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	26824	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	23.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

∴ END OF TEST REPORT ∴



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## TEST REPORT

No. AP-FG/19-20/721

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 25.12.2019 at 04:30 P.M. to 05:18 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to : Packer - 2					
2. Emission due to : Cement Packing					
3. Material of construction of stack : M.S					
4. Shape of stack : Circular.					
5. Whether stack is provided with permanent platform & ladder : Yes					
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 30.0 M (b) from roof level : ---					
2. Diameter of the stack (a) at bottom : --- (b) at top : 1.0 M					
3. Diameter of the stack at sampling point : 1.0 M					
4. No. of Traverse point : 12 Nos.					
5. Height of the sampling point from GL : 21.0 M					
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil 2. Fuel consumption : Nil					
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1056 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	43	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	11.62	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	29610	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	12.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

:- END OF TEST REPORT :-



(J. MUKHERJEE)  
Quality Manager

Authorised Signatory  
For R.V.BRIGGS & CO. (P) LTD.

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## TEST REPORT

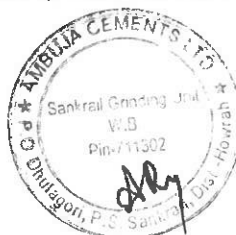
No. AP-FG/19-20/722

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 25.12.2019 at 11:10 A.M. to 11:34 A.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to	: Packer - 3				
2. Emission due to	: Cement Packing				
3. Material of construction of stack	: M.S				
4. Shape of stack	: Circular.				
5. Whether stack is provided with permanent platform & ladder	: Sample was taken from roof top.				
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 36.5 M	(b) from roof level : ---				
2. Diameter of the stack (a) at bottom : ---	(b) at top : 1.1 M				
3. Diameter of the stack at sampling point	: 1.1 M				
4. No. of Traverse point	: 12 Nos.				
5. Height of the sampling point from GL	: 34.5 M				
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil	2. Fuel consumption : Nil				
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1056 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	44	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	9.90	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	30428	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	12.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

:- END OF TEST REPORT :-



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## TEST REPORT

No. AP-FG/19-20/723

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 25.12.2019 at 11:50 A.M. to 12:38 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to : Packer - 3 (Auxiliary)					
2. Emission due to : Cement Packing					
3. Material of construction of stack : M.S					
4. Shape of stack : Circular.					
5. Whether stack is provided with permanent platform & ladder : Sample was taken from roof top.					
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 36.5 M (b) from roof level : ---					
2. Diameter of the stack (a) at bottom : --- (b) at top : 0.85 M					
3. Diameter of the stack at sampling point : 0.85 M					
4. No. of Traverse point : 12 Nos.					
5. Height of the sampling point from GL : 34.5 M					
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil					
2. Fuel consumption : Nil					
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1056 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	45	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	11.04	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	20202	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	08.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

:- END OF TEST REPORT :-



(J. MUKHERJEE)  
Quality Manager

Authorised Signatory  
For R.V.BRIGGS & CO. (P) LTD.



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## TEST REPORT

No. AP-FG/19-20/724

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 25.12.2019 at 02:10 P.M. to 02:34 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to : Packer - 4					
2. Emission due to : Cement Packing					
3. Material of construction of stack : M.S					
4. Shape of stack : Circular.					
5. Whether stack is provided with permanent platform & ladder : Yes.					
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 37.7 M (b) from roof level : —					
2. Diameter of the stack (a) at bottom : — (b) at top : 1.1 M					
3. Diameter of the stack at sampling point : 1.1 M					
4. No. of Traverse point : 12 Nos.					
5. Height of the sampling point from GL : 35.5 M					
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Nil					
2. Fuel consumption : Nil					
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1032 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	42	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	9.63	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	29786	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	13.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

-: END OF TEST REPORT :-



(J. MUKHERJEE)  
Quality Manager

Authorised Signatory  
For R.V.BRIGGS & CO. (P) LTD.

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## TEST REPORT

No. AP-FG/19-20/725

Date: January 01, 2020

Page 1 of 1

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)				
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.				
Your Ref. PO No.	: 2800753087/NE13 dtd. 30.04.2019	<u>Parameters Tested</u>			
Sample Description	: Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow			
Date & time of sampling	: 25.12.2019 at 02:50 P.M. to 03:15 P.M.	<b>Chemical</b> : CO, CO <sub>2</sub> & PM			
Test Completed on	: 31.12.2019				
<b>A. General information about stack :</b>					
1. Stack connected to	: Packer - 4 (Auxiliary)				
2. Emission due to	: Cement Packing				
3. Material of construction of stack	: M.S				
4. Shape of stack	: Circular.				
5. Whether stack is provided with permanent platform & ladder	: Yes.				
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack	(a) from ground level : 37.7 M	(b) from roof level : ---			
2. Diameter of the stack	(a) at bottom : ---	(b) at top : 1.1 M			
3. Diameter of the stack at sampling point	: 1.1 M				
4. No. of Traverse point	: 12 Nos.				
5. Height of the sampling point from GL	: 35.5 M				
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used	: Nil		2. Fuel consumption : Nil		
<b>D. Results of Physical Parameters of Flue Gas :</b>					
		Barometric pressure : 750 mmHg.			
		Volume of Gas Sample : 1025 Litre			
Sl No	Test Parameters	Test Method	Unit	Results	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	46	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	9.73	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	29718	
<b>E. Results of gaseous emission :</b>					
1.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	14.0	30 max.
<b>F. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

:- END OF TEST REPORT :-



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Quality Manager

Authorised Signatory  
For R.V.BRIGGS & CO. (P) LTD.

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## TEST REPORT

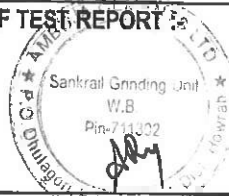
No. AP-FG/19-20/727

Date: January 01, 2020

Page 1 of 1

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<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b> <b>Physical</b> : Temp., Velocity, Gas flow <b>Chemical</b> : SO <sub>2</sub> , NO <sub>2</sub> , CO, CO <sub>2</sub> & PM				
<b>Sample Description</b> : Stack Gas					
<b>Date &amp; time of sampling</b> : 26.12.2019 at 04:10 P.M. to 04:35 P.M.					
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to : DG - I					
2. Emission due to : Burning of Furnace Oil					
3. Material of construction of stack : M.S.					
4. Shape of stack : Circular.					
5. Whether stack is provided with permanent platform & ladder : Yes					
6. Generator capacity : 6 MW					
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 60.0 M (b) from roof level : ---					
2. Diameter of the stack (a) at bottom : --- (b) at top : 1.0 M					
3. Diameter of the stack at sampling point : 1.0 M					
4. No. of Traverse point : 12 Nos.					
5. Height of the sampling point from GL : 30.0 M					
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Furnace Oil					
2. Fuel consumption : 1100 Lt./hr.					
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1000 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	212	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	7.80	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	13386	
<b>E. Results of gaseous emission :</b>					
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985 RA 2012	mg/Nm <sup>3</sup>	137.0	Not Available
5.	Nitrogen dioxide	IS 11255 : Part 7 : 2005 RA 2012	mg/Nm <sup>3</sup>	152.0	Not Available
6.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
7.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	7.8	Not Available
8.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	97	150 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

END OF TEST REPORT



(J. MUKHERJEE)

Quality Manager

Authorised Signatory

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## TEST REPORT

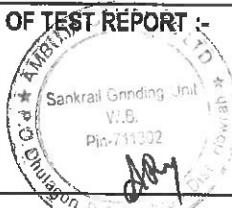
No. AP-FG/19-20/728

Date: January 01, 2020

Page 1 of 1

<b>Issued to</b> : M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)					
<b>Address</b> : Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
<b>Your Ref. PO No.</b> : 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b>				
<b>Sample Description</b> : Stack Gas	<b>Physical</b> : Temp., Velocity, Gas flow				
<b>Date &amp; time of sampling</b> : 26.12.2019 at 04:45 P.M. to 05:23 P.M.	<b>Chemical</b> : SO <sub>2</sub> , NO <sub>2</sub> , CO, CO <sub>2</sub> & PM				
<b>Test Completed on</b> : 31.12.2019					
<b>A. General information about stack :</b>					
1. Stack connected to	: DG - II				
2. Emission due to	: Burning of Furnace Oil				
3. Material of construction of stack	: M.S.				
4. Shape of stack	: Circular.				
5. Whether stack is provided with permanent platform & ladder	: Yes				
6. Generator capacity	: 6 MW				
<b>B. Physical characteristics of stack :</b>					
1. Height of the stack (a) from ground level : 60.0 M	(b) from roof level : ---				
2. Diameter of the stack (a) at bottom : ---	(b) at top : 1.0 M				
3. Diameter of the stack at sampling point	: 1.0 M				
4. No. of Traverse point	: 12 Nos.				
5. Height of the sampling point from GL	: 30.0 M				
<b>C. Analysis / Characteristic of stack :</b>					
1. Fuel used : Furnace Oil	2. Fuel consumption : 900 Lt./hr.				
<b>D. Results of Physical Parameters of Flue Gas :</b>					
Barometric pressure : 750 mmHg.					
Volume of Gas Sample : 1026 Litre					
<b>Sl No</b>	<b>Test Parameters</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>	
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	217	
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	m/sec	9.37	
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1 <sup>st</sup> Rev.)	NM <sup>3</sup> /hr	15915	
<b>E. Results of gaseous emission :</b>					
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985 RA 2012	mg/Nm <sup>3</sup>	130.0	Not Available
5.	Nitrogen dioxide	IS 11255 : Part 7 : 2005 RA 2012	mg/Nm <sup>3</sup>	161.0	Not Available
6.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
7.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	8.0	Not Available
8.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm <sup>3</sup>	84	150 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

:- END OF TEST REPORT :-



(J. MUKHERJEE)  
Quality Manager  
Authorised Signatory

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Annexure - II

## ***AMBIENT AIR***



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## TEST REPORT

No. AP-AAQ/19-20/726

Date: December 31, 2019

Page 1 of 1

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)		
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.		
Your P.O. No.	: 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b> PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , CO	
Sample Description	: Ambient Air		
Location	: Near Contractor's Room		
Date of monitoring	: 24.12.2019	Test Completed on	: 27.12.2019
Time of sampling	: 10:05 A.M. - 10:05 A.M.	Duration of Sampling	: 24Hrs.

### TEST FINDINGS:-

Barometric Pressure : 754 - 750 mmHg

Temperature : 22.0°C - 16.0°C

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results (Time Weighted Avg.)	Norms as per MOE & F Notification New Delhi, 16 <sup>th</sup> November, 2009
1.	PM <sub>2.5</sub> ( Size ≤ 2.5µm )	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m <sup>3</sup>	93	60 (24 Hourly.)
2.	PM <sub>10</sub> ( Size ≤ 10µm )	IS 5182 ( Part - 23 ): 2006 Reaffirmed 2012	µg/m <sup>3</sup>	184	100 (24 Hourly.)
3.	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 ( Part - 2 ): 2001 Reaffirmed 2012 (1st Rev.)	µg/m <sup>3</sup>	4.9	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 ( Part - 6 ): 2006 Reaffirmed 2012 (1st Rev.)	µg/m <sup>3</sup>	45.1	80 (24 Hourly.)
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m <sup>3</sup>	1.31	04 (1 Hourly.)

-: END OF TEST REPORT :-



(J. MUKHERJEE)

Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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## TEST REPORT

No. AP-AAQ/19-20/727

Date: December 31, 2019

Page 1 of 1

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)		
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.		
Your P.O. No.	: 2800753087/NE13 dtd. 30.04.2019	<b>Parameters Tested</b> PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , CO	
Sample Description	: Ambient Air		
Location	: Near RO Plant		
Date of monitoring	: 24.12.2019	Test Completed on	: 27.12.2019
Time of sampling	: 09:50 A.M. - 09:50 A.M.	Duration of Sampling	: 24Hrs.

Barometric Pressure : 754 - 750 mmHg

Temperature : 22.0°C - 16.0°C

### TEST FINDINGS:-

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results (Time Weighted Avg.)	Norms as per MOE & F Notification New Delhi, 16 <sup>th</sup> November, 2009
1.	PM <sub>2.5</sub> ( Size ≤ 2.5µm )	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m <sup>3</sup>	102	60 (24 Hourly.)
2.	PM <sub>10</sub> ( Size ≤ 10µm )	IS 5182 ( Part - 23 ): 2006 Reaffirmed 2012	µg/m <sup>3</sup>	199	100 (24 Hourly.)
3.	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 ( Part - 2 ): 2001 Reaffirmed 2012 (1st Rev.)	µg/m <sup>3</sup>	5.3	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 ( Part - 6 ): 2006 Reaffirmed 2012 (1st Rev.)	µg/m <sup>3</sup>	47.5	80 (24 Hourly.)
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m <sup>3</sup>	1.27	04 (1 Hourly.)

-: END OF TEST REPORT :-



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Quality Manager

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## TEST REPORT

No. AP-AAQ/19-20/728		Date: December 31, 2019		Page 1 of 1	
Issued to		: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)			
Address		: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.			
Your P.O. No.		: 2800753087/NE13 dtd. 30.04.2019		<b>Parameters Tested</b>	
Sample Description		: Ambient Air		PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , CO	
Location		: Near Railway Gate			
Date of monitoring		: 25.12.2019		Test Completed on : 27.12.2019	
Time of sampling		: 09:50 A.M. - 09:50 A.M.		Duration of Sampling : 24Hrs.	
TEST FINDINGS:-		Barometric Pressure : 754 - 750 mmHg Temperature : 22.5°C - 11.5°C			
Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results (Time Weighted Avg.)	Norms as per MOE & F Notification New Delhi, 16 <sup>th</sup> November, 2009
1.	PM <sub>2.5</sub> ( Size ≤ 2.5µm )	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m <sup>3</sup>	122	60 (24 Hourly.)
2.	PM <sub>10</sub> ( Size ≤ 10µm )	IS 5182 ( Part - 23 ): 2006 Reaffirmed 2012	µg/m <sup>3</sup>	214	100 (24 Hourly.)
3.	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 ( Part - 2 ): 2001 Reaffirmed 2012 (1st Rev.)	µg/m <sup>3</sup>	5.7	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 ( Part - 6 ): 2006 Reaffirmed 2012 (1st Rev.)	µg/m <sup>3</sup>	52.6	80 (24 Hourly.)
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m <sup>3</sup>	1.37	04 (1 Hourly.)

-: END OF TEST REPORT :-



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Quality Manager

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## TEST REPORT

No. AP-AAQ/19-20/729

Date: December 31, 2019

Page 1 of 1

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)				
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.				
Your P.O. No.	: 2800753087/NE13 dtd. 30.04.2019		<b>Parameters Tested</b>		
Sample Description	: Ambient Air		PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>2</sub> , CO		
Location	: Near Main Gate				
Date of monitoring	: 25.12.2019		Test Completed on	: 27.12.2019	
Time of sampling	: 10:10 A.M. - 10:10 A.M.		Duration of Sampling	: 24Hrs.	
<b>TEST FINDINGS:-</b>			Barometric Pressure : 754 - 750 mmHg Temperature : 22.5°C - 11.5°C		
Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results (Time Weighted Avg.)	Norms as per MOE & F Notification New Delhi, 15 <sup>th</sup> November, 2009
1.	PM <sub>2.5</sub> ( Size ≤ 2.5µm )	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m <sup>3</sup>	127	60 (24 Hourly.)
2.	PM <sub>10</sub> ( Size ≤ 10µm )	IS 5182 ( Part - 23 ): 2006 Reaffirmed 2012	µg/m <sup>3</sup>	211	100 (24 Hourly.)
3.	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 ( Part - 2 ): 2001 Reaffirmed 2012 (1st Rev.)	µg/m <sup>3</sup>	5.8	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 ( Part - 6 ): 2006 Reaffirmed 2012 (1st Rev.)	µg/m <sup>3</sup>	46.9	80 (24 Hourly.)
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m <sup>3</sup>	1.38	04 (1 Hourly.)

-: END OF TEST REPORT :-



(J. MUKHERJEE)

Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

BB

- ★ The test report shall not be reproduced, except in full, without written approval of the Company.
- ★ Results relate only to the parameters tested.

**Annexure-III**

Fugitive Emission Monitoring Data [ $\mu\text{g}/\text{m}^3$ ]			
Sr. No.	Location	4th Quarter of 2019	1st Quarter of 2020
		Total Particulate Matter	Total Particulate Matter
		microgram/ $\text{m}^3$	microgram/ $\text{m}^3$
1	Near Hopper Bld.	1418.13	1391.94
2	Near Roller Press Building	2033.98	2000.73
3	B/h Clinker Silo	1381.53	1550.04
4	Packer ground floor	4134.62	4608.60
5	Near FA silo	3544.91	3124.54





## FORM 4

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

033730

## PERMIT FOR SINKING OF NEW WELL

[U/S 7(3)(b)/7(4)(b)/7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

PERMIT NO. P0609002010740000001TLE

1. (a) Name of the applicant (user) : Shri/Smt. **AMBUJA CEMENTS LTD**  
 (b) Son/ Daughter of :  
 (c) Address of the applicant : **DHULAGORI, SANKRAIL**  
 (d) Category of farmer (Please tick) : Small Farmer / Marginal Farmer / Others  
 (in case of irrigation well)  
 (e) Serial No. of application Form and date of submission : **BP/A. 0154 S.I. No. 1, 2-3-2011**  
 (f) Specimen signature of the user : **Arun Jha**
2. Location particulars—  
 (a) District : **HOWRAH**  
 (b) Block, Mouza, J. L. No., Plot No. : **SANKRAIL, SALADHULAGORI, 002, 1074**  
 (c) Municipality/Corporation : **N.A.**  
 Ward No. / Borough No., Holding No.
3. Particulars of the proposed well and pumping device—  
 (a) Type of the well : **TUBEWELL**  
 (b) Approx. depth of the well (m) : **250 mtrs.**  
 (c) Purpose of the well : **Industrial**  
 (d) Assembly size (for tube well) : **200 mm. X 200 mm.**  
 (e) Approx. strainer length (for tube well) : **30 m.**  
 (f) Diameter (for dug well) : **— m.**  
 (g) Type of pump to be used : **SUBMERSIBLE**  
 (h) H.P. of the pump : **5.0 H.P.**  
 (i) Operational device : **ELECTRIC MOTOR**  
 (j) Rate of withdrawal (m<sup>3</sup>/hr.) : **30 m<sup>3</sup>/hr**  
 (k) Maximum allowable running hours per day : **6 hr/day**

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (k), and is valid subject to the observance of the conditions stated overleaf.

Place : **HOWRAH**Date : **21/6/2011**

## Conditions:

- (1) In case of any change of ownership of the proposed well, fresh registration has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
- (3) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- (4) Any other condition imposed by the concerned Authority.





# Annexure - V

## FORM 4

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

033739

### PERMIT FOR SINKING OF NEW WELL

[D/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

PERMIT NO. P060900201963 0000001TSE

1. (a) Name of the applicant (user)
- (b) Son / Daughter of
- (c) Address of the applicant
- (d) Category of farmer (Please tick) (in case of irrigation well)
- (e) Serial No. of application Form and date of submission
- (f) Specimen signature of the user



Shri/Smt. M/S AMBUJA CEMENTS LTD.

N.A.

Dhulagori, Bankrail; Howrah

Small Farmer / Marginal Farmer / Others

BP/A 0154; 81-3 dt. 6/11

Amunjit

#### 2. Location particulars---

- (a) District
- (b) Block, Mouza, I. L. No., Plot No.
- (c) Municipality / Corporation
- Ward No. / Borough No., Holding No.

Howrah

Bankrail / Taladhulagori / 002

Plot - 1963

#### 3. Particulars of the proposed well and pumping device---

- (a) Type of the well
- (b) Approx. depth of the well (m)
- (c) Purpose of the well
- (d) Assembly size (for tube well)
- (e) Approx. strainer length (for tube well)
- (f) Diameter (for dug well)
- (g) Type of pump to be used
- (h) H. P. of the pump
- (i) Operational device
- (j) Rate of withdrawal (m<sup>3</sup>/hr.)
- (k) Maximum allowable running hours per day

Tube Well

250m

Domestic

127 mm. X 76.2mm.

18 m.

Submersible

3.5 H.P.

Electric Motor

15 m<sup>3</sup>/hr.

6 hrs/day

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (i) and for running hours / day as shown at S1. (3) (K), and is valid subject to the observance of the conditions stated overleaf.

Place: Howrah

Date: 18/2/12

OFFICE SEAL

Chinnaji Roy

Signature of the Issuing Authority and Designation.

Member Secretary  
Ground Water Resources  
Development Authority

#### Conditions:

- (1) In case of any change of ownership of the proposed well, fresh registration has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
- (3) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- (4) Any other condition imposed by the concerned Authority.

It is resolved that mandatory recharge structures in the Complex should be done

OFFICE SEAL





# Annexure - VI

## Mitra S. K. Private Limited

Shrachi Centre (5th Floor)  
74B, Acharya Jagadish Chandra Bose Road  
Kolkata - 700 016, West Bengal, India  
CIN: U51909WB1956PTC023037

T : 91 33 22172249 / 40143000 / 22650006 / 22650007  
F : 91 33 22650008  
E : info@mitrask.com  
W : www.mitrask.com



## TEST REPORT

### Name & Address of the Customer :

Ambuja Cements Limited

Jaladhulagori, Vill & PO.- Dhulagori,

PS.- Sankrail, Dist.- Howrah - 711302

Report No. : FC/ 496

Date : 20.12.2019

Sample No. : MSKGL/ED/2019-20/12/00353

Sample Description : Waste Water

Sample Mark : STP Outlet

Sample Drawn on : 09.12.2019

SAMPLE DRAWN : Mr SHANKAR PAYRA  
[ BY LAB REPRESENTATIVE ]

Reference No.& Date : 2800775293/NE13, Date - 17/10/2019

## ANALYSIS RESULT

SL NO	TEST PARAMETER	TEST METHOD	Limit as per CPCB		RESULT
			Inland Surface water	Public Sewers	
1.	pH value at 25°C	APHA(23rd Edition) 4500-H-B	5.5- 9.0	5.5- 9.0	7.36
2.	Total Suspended Solid (as TSS) in mg/l	APHA(23rd Edition)2540D	100	600	28
3.	Biochemical Oxygen Demand (as BOD for 3 days at 27°C) in mg/l	APHA (23rd Edition) 5210B 2017	30	350	12
4.	Chemical Oxygen Demand (COD) in mg/l	APHA (23rd Edition) 5220B, 2017	250	---	43
5.	Oil and Grease in mg/l	APHA (23rd Edition) 5520B 2017	10	20	<1.4

Report Verified By:



For Mitra S.K. Pvt. Ltd.  
  
Authorised Signatory

KOLKATA TUESDAY 28 JUNE 2011

The Statesman

2

# Arrested J Dey killing'

of seven. The revolver and 25 cartridges were displayed by Commissioner Mr Arup Pannaik and Mr Roy at the Press conference.

The state home minister Mr RR Paul announced Rs 10 lakh cash reward to the crime branch for the methodical investigation. Mr Roy confirmed that police would name Chhota Rajan as accused with seven hired contract killers in the Dey murder case. Rajan would be charged with the murder of

Kalya immediately accepted the offer and started assembling other accomplices. The target was identified by his appearance and spectacles. Dey's motorbike number was given. Rajan further informed Kalya that he and his accomplices could get the target either at Peninsula Centre, Lower Panel, where Mid-Day office is located or Spectra Building, Sector 1, Salt Lake.

arrested from Mumbai, three, including Kalya, from Rameshwaram and one from Solapur in Maharashtra.

All seven held alleged killers in turn followed Dey from his office to home to determine where to target him. Near office at Peninsula Centre was ruled out as very few people were seen entering the building.

ment releasing a comparative statement on

## JADAVPUR UNIVERSITY

Kolkata-700032

A walk-in interview will be held in the Audio-Visual Room of Mechanical Engineering Department on 06 July, 2011 at 12 noon for 3 Research Fellows for different projects: (1) Modeling and finite element simulation of Uniaxial and Bi-axial low cycle fatigue and Ratcheting. (2) Missile Mass properties and measurement system. (3) Modeling and experimental verification of Spray formation by disintegration of annular swirling liquid sheets for design of advanced fuel injection for gas turbine combustor.

The selected candidates will have the opportunity to register for Ph.D. at Jadavpur University in the respective area of work.

Minimum Qualification: Bachelor's Degree in Mechanical Engineering. Desirable Qualification: Master's Degree in Mechanical Engineering or 2 years' experience in Research.

For 1: Expertise in finite element methods, fracture mechanics and plasticity.

For 2: Expertise in FEM and compressible fluid flow analysis.

For 3: Expertise in FIV / FPIPA.

Candidates may appear in person directly in the interview with filled up application form available from the Information Office of the University, along with original and attested copies of mark sheets and certificates. (B0000)

Advocate  
309, Purba Sinthee Place  
Dum Dum, Kolkata-700030  
Phone No. 25484340  
Mobile No. 9433098249  
909724149  
(B0000)

**CAPACITY** enhancement from 150 MTPA to 240 MTPA of various grades of cement for the existing Cement Grinding Unit of M/s Ambuja Cements Ltd. at Jaladulagori, Sankrail, Howrah has been awarded Environmental Clearance by the Ministry of Environment and Forests. Copies of the clearance letter are available with the West Bengal Pollution Control Board and may also be seen at website of the Ministry of Environment and Forests at <http://envfora.in>

I, ARNAB Banerjee, R/o, 1/46A, Jheel Road, Kolkata-700075, shall henceforth be known as Papan Kumar Banerjee, vide affidavit sworn before the Notary Public at Kolkata on 22nd Dec, 2010.

I, JENNIFER Baker, W/o, Keith Patrick Baker, do hereby declare that my son, Peter Leo Jockin, shall henceforth be known as Peter Leo Baker, vide affidavit sworn before the Learned Notary at Kolkata on 27-05-2004.

I, RAM Bidesh Ram, do hereby declare that Ram Bidesh Prasad, Ramabidish Prasad and Ram Bidesh Ram is one and same person, vide affidavit sworn before the

**MY CLIENT** - Shri Satyaranjan Roy has lost / misplaced the original Lease Deed being No. 471 for the year 1987 duly Registered before A.D.S.R. Saldah, 24 Pox (S) and a written complaint has been lodged before Kaska P.S. vide GDE No. 286 dated 22-02-2011. If any person finds the original document or have any knowledge please return the same to the under-mentioned within 10 days from the date of publication and thereafter no claim will be entertained through the said Original Lease Deed.

Saibhik Roy  
Advocate  
898720880  
916331607

(B0003)

## TENDERS

**STEEL AUTHORITY OF INDIA LIMITED**  
(A Govt. of India Enterprise)  
**SAIL Refractory Unit**  
Bhandaridah  
P.O. Bhandaridah-829332,  
Dist: Bokaro  
Jharkhand (India)  
(Formerly Bharat Refractories Limited)  
(Bhandaridah Refractories Plant)

Phone Number: 06549 239233  
/ 06549 239220 (Fax) / 06549-233672 Bokaro (Fax)

No: SAIL / SRUB / PUR-286  
(8-9) / 10 / 118

Dated: 22-06-2011  
NOTICE INVITING

TENDER (ABRIDGED)

Sl. No: 01 Description of Items: Chamber furnace

No. Qty. required of No. size  
Cost of tender document: Rs. 500 (Rupees five hundred) only by Cash and Rs. 500 (Rupees six hundred) by Post.  
Last date of submission of tender: 26-07-2011 up to 2-00 pm.

Date of opening of tender: 26-07-2011 at 3-00 pm.

For details please visit our website:

[www.sailtenders.co.in](http://www.sailtenders.co.in)

Manager (S & P)

Annexure-I

Technical Specification

Description: Electrically heated chamber type front loading furnace using Kanthal super, molybdenum disilicide heating elements having maximum temperature of 1750°C with working temperature of 1700°C for continuous run. The furnace should have facility of operating by front located control panel.

Special Feature: The furnace should have independent operating systems and programmable temperature control with 16 segments.

Construction: Welded angle iron frame floor model type construction in two sections with sheet metal paneling. Top section comprises of heating cavity assembly and lower section houses the transformer, electrical etc. The door will be insert type swing aside parallel moving door with peephole.

Refractory: Internal refractory should be such that it does not fuse / cracks / melts at maximum working temperature and skin temperature remains below 100°C.

Heating Element (100 in two side walls)  
Molybdenum disilicide  
MoSi2 U shape heating element:  
Grade Kanthal S  
1800°C.

Dia - 6/2 mm.

Le-225 mm, Lu-250 mm

45 or 60 mm. No. of coil - 6 Nos.

Operating Temperature

Continuous Open

Temperature 1700°C.

Guarantee: One year of

servicing guarantee against

any manufacturing defect

from date of commissioning

except heating elements

perishable materials.

Service Contract 3 year

annual maintenance service

contract after one year from

the date of commissioning

(B0002)

## OFFICE OF THE JT. CHIEF UNIVERSITY ENGINEER

North Bengal University

TENDER NOTICE NO.

JT. CHIEF UET/2011-12/

DT: 27-06-2011

Sealed tenders for the following works are invited from the J. Chief University Engineer from the experienced contractors. Earn Money 2% of the Estimated Value.

1) Replacement

asbestos sheet including

supporting frame work &

other necessary work &

old portion of H.B.J. Ph.D.

School, Estimated Amount



Alabu

# জ্ঞাপন

## বিজ্ঞপ্তি

Invited for a system and ansor along r. The sys- mart class n, audio, ith record- is to quote quotation within 7 : of the Chandra Birbhum, 296/33

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ck.gov.in  
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296/82

অনুজ্ঞা সিমেন্টস লিমিটেড, জলাধলাগোড়া, সিকরাইল, হাওড়া দ্বারা অবগত করা হইতেছে যে, ইহার বিভিন্ন প্রকার সিমেন্ট উৎপাদন ক্ষমতা ১.৫০ মিলিয়ন টন (বার্ষিক) হইতে বাড়িয়া ২.৪০ মিলিয়ন টন (বার্ষিক) করিবার জন্য কেন্দ্রীয় পরিবেশ এবং বনমন্ত্রকের ছাড়পত্র পাইয়াছে। অনুমতিপত্রের প্রতিলিপি পশ্চিমবঙ্গ মুখ্য নিয়ন্ত্রণ পর্ষদের নিকট উপলব্ধ এবং কেন্দ্রীয় পরিবেশ এবং বনমন্ত্রকের ওয়েবসাইটে (<http://envfor.nic.in>) লিপিবদ্ধ আছে।

S/D-Dy.Mgr-Bav.  
296/57

## ডিস্ট্রিক্ট ডেলিগেট আদালত

আসানসোল  
উইল প্রভেট কেস নং ৯১/১১  
দরখাস্তকারী :- চার্লস মিজ  
এতদ্বারা সর্বসাধারণকে জানানো হইতেছে যে উপরোক্ত দরখাস্তকারী তাহার মৃত সৎ ভাতা শিশিরকুমার মিজ, সাং গৌর মণ্ডল রোড, হটিন রোডের নিকট পোস্ট ও থানা-আসানসোল, জিলা বর্ধমান কর্তৃক ইং ৬.৩.০৮ তাং কর্তৃক সম্পাদিত ও তাক উইলের প্রবেট পাইবার জন্য অত্র আদালতে উক্ত কেস রক্ত করিয়াছেন।

কাহারো আপত্তি থাকিলে এই বিজ্ঞপ্তি প্রকাশের এক মাসের মধ্যে কারণ দর্শাইবেন নচেৎ উক্ত মামলাটির এক ভরসা শুনানী হইবে।

আদেশানুসারে  
গোপাল চক্রবর্তী  
সেরেস্তাদার  
296/60

## ডিস্ট্রিক্ট ডেলিগেট আদালত

আসানসোল  
সাকসেসন কেস নং ৫০/১১  
দরখাস্তকারী :- সামারী দেবী  
এতদ্বারা সর্বসাধারণকে জানানো হইতেছে যে উপরোক্ত দরখাস্তকারী তাহার মৃত স্বামী মহেশ সিং, সাং কুশনভোরিয়া এরিয়া কমপ্লেক্স, পোস্ট তপসী, থানা-জামুগিয়া, জিলা বর্ধমান এর এন্ট্রি নং ১৬৮.৪১৩ টাকা আদায়ের জন্য

## পরমিতালি

বন্ধুদের চেটা? মেটাতে পারি আমরা। বন্ধু ও বোন্ড রিলেশন।  
K.V.C. 8001172942/3 296/71

ফ্রেডস ওয়ার্ল্ড  
ঠিকার দিন শেষ! কি 500/-  
পশ্চিমবঙ্গের প্রত্যেকটি মহকুমায়  
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বছরের পর বছর সঠিক পরিসেবা।  
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থোফাইল মহিলাদের সঙ্গে।  
ফি-500/- 9748509750. 296/74

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মুক্ত মনের মহিলাদের সঙ্গে বন্ধুত্ব।  
কোনো বন্ধুত্ব নয়। বন্ধু না পেলে  
টাকা ফেরৎ। 8420649709. 296/75

রনি ক্লাব  
হাই থোফাইল দেশি-বিদেশি মহিলা  
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ফ্রেডস ভ্যালি  
বন্ধুদের চেটা? মেটাতে পারি আমরা।  
বন্ধু ও বোন্ড রিলেশন।  
8017455103/8017454887. 296/77

গভীর সম্পর্ক বন্ধু/বান্ধবীর জন্য  
ফোন করুন বিশ্বাসের সাথে।  
8017398210/8820371819 296/80

নিঃসঙ্গ জীবনকে আলোকিত করতে  
হাই/মিডিয়াম থোফাইল মহিলাদের  
সঙ্গে স্পট ডেটিং/ক্রোজ রিলেশন।  
9836303408, 8981668162 296/121

Deepika Club : বন্ধুদের  
হাতছানি ও উষ্ণ অনুভূতির ছোঁয়া। ফি-  
500/-9748285736/ 9748778467/  
9051538829. 296/122

বন্ধুত্ব করাবো  
জীবনকে বাধুনিয় করতে সেয়া  
বন্ধু/বান্ধবীর সন্ধান লাভ N  
ডাঃ। 9330626360 / 9330626403/  
9330626380/ 9330626570

## শিক্ষা

D.Ed (P.T.T.),  
B.Ed, B.P.Ed,  
NCTE & UGC অনুমোদিত কোর্সে  
ভর্তির জন্য বেসল মাজেশন  
সেন্টারের নিম্নলিখিত ব্রাঞ্চে  
যোগাযোগ করুন।  
সোনারপুর-8902040388,  
বসিরহাট-9831822159,  
রানঘাট-9734319827,  
গড়বেতা-9733563181,  
গুসকরা- 9474539452,  
বহরমপুর- 9733599694,  
রায়পুরহাট - 8768501518,  
মুরাহুই - 9153557604,  
তালভাড়া - 9641925769  
মালদা- 9735912770

সম্পাদক পবন চৌধুরী, বেসল  
মাজেশন সেন্টার, তিনকোনিয়া  
বাসসদাও, রামকৃষ্ণ মার্কেট কমপ্লেক্স  
(মিতল) বর্ধমান। M-9434211612  
বিঃ দ্রঃ-হানচাইজি নিতে আগ্রহী  
ব্যক্তিগণ সম্পাদকের ফোন নম্বরে  
যোগাযোগ করুন। 296/17

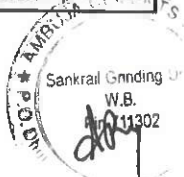
ইতিহাস ও বাংলা (H.S-Hons)  
পড়ানো হয়। ফোন : 9831910602/  
8961314247. 296/18

## শ্রমিক শিক্ষার স্বনির্ভর হোন।

ভারতবর্ষে এই প্রথম কম সময়ে,  
কম খরচে আন্তর্জাতিক রোগা ও  
শেপিং করানো সঠিক চিকিৎসার  
পদ্ধতি শিবে শ্রমিক খেয়াপিস্ট ও  
ওবিসিটি কনসালটেন্ট হিসেবে কাজ  
করুন। কোর্স শুরু থেকেই  
আশাতীত আয়ের সুযোগ। ১০০%  
কাজের সহায়তা।

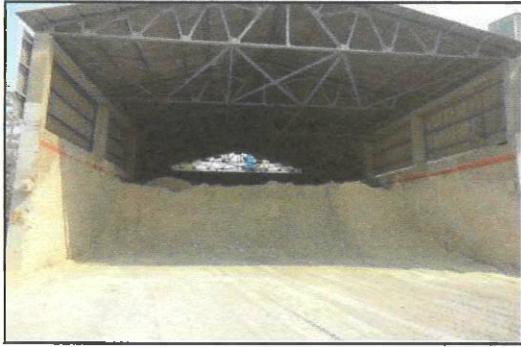
অতীত'স কমপ্লিট শ্রমিক  
সলিউশন অ্যান্ড  
ট্রেনিং সেন্টার  
9831316829, 9038968454  
296/19

UGC-DEC স্বীকৃত  
State Govt. University  
M.Tech, B.Tech, Dip. in Engn.  
B.A., B.Sc, B.Com, MA, M.Sc,  
M.Com, BBA, MBA, MSc(IT),  
BCA, MCA, B.Lib, M.Lib-ভে  
ডতি চলিতেছে। (বাংলায়  
পরীক্ষার ব্যবস্থা আছে) VIPS -  
মালদার - 9477081572

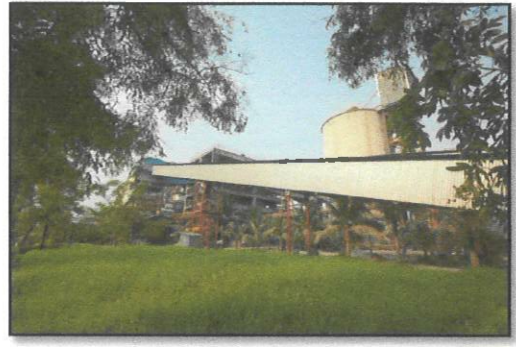




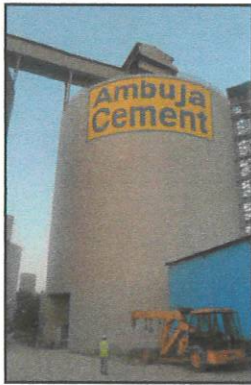
**Annexure-VIII**  
**Photographs of Plant**



**Fig 1 : Gypsum Shed**



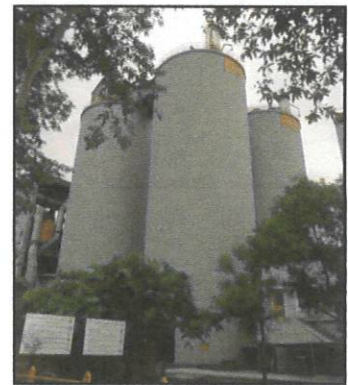
**Fig 2 : Covered Conveyors**



**Fig 3 : Clinker Storage Silos**



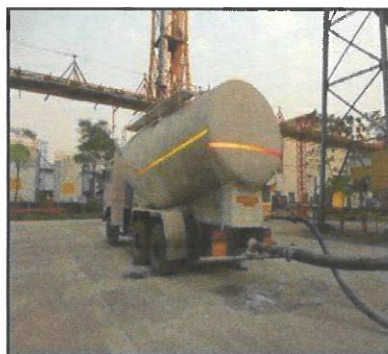
**Fig 4 : Fly ash Silo**



**Fig 5 : Cement Storage Silos**



**Fig 6 : Bag Filter**



**Fig 7 : Fly Ash Bulker Unloading**



**Fig 8 : Pedestrian Pathway**





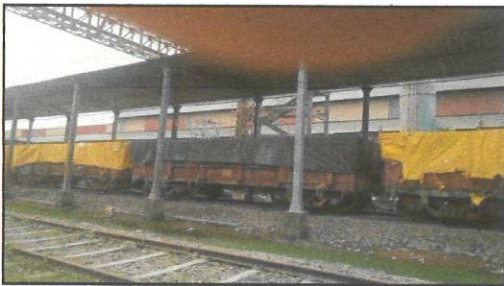
**Fig 9 : Concrete Road**



**Fig 10 : Water Sprinkler**



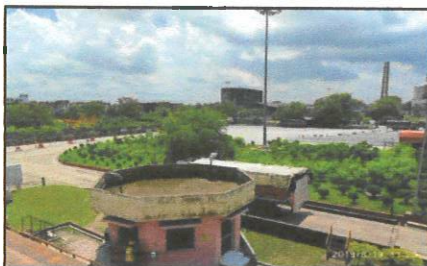
**Fig 11 : Mobile Road sweeper**



**Fig 12 : Covered Clinker Rake**



**Fig 13 : Sewage Treatment Plant**



**Fig 14: Photographs of Plantation**



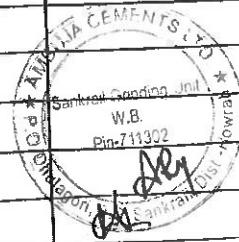
**Fig 15: Road Sweeping machine**



# WATER SPRINKLING TRIP

Annexure - IX

Date	No. of TRIP	Source	Area	Water in KL	Sign
01.10.19	04	STP	PH MB TY-122	14	de
03.10.19	08	STP	WL PH GY	16	de
04.10.19	06	STP	CY WB-122 TY-122	12	de
05.10.19	10	STP	New Pur. land Cement Silo Area Clinker Silo Area PH	20	de
07.10.19	09	STP	PH DG Area Store Area Gypsum Yard	18	de
08.10.19	08	STP	Gypsum Yard TY-122 Clinker yard Gypsum yard	16	de
10.10.19	10	STP	WL PH GY TY-122	20	de
11.10.19	07	STP	New Pur. land Cement Silo Area Clinker Silo Area TY-122	14	de





**Ambuja Cement Foundation, Sankrail**  
**Progress Report (Oct 2019 to Mar 2020)**

Sr. No.	Activities	Unit	Cumulative Achievement	Details of the activity (Issue / Area/ village)
<b>1</b>	<b>Agrobased Livelihood</b>			
<b>1</b>	<b>Promotion of System of Rice Intensification</b>			
a	Farmer's Training Programme	Farmers (No)	1961	Capacity building programme conducted with 1961 no of farmers in different issues of improved agricultural practices such as SRI, aquaculture, livestock management, vegetable cultivation and kitchen gardening with exposure in the field & Krishi Vikas Kendra.
b	SRI Promotion	acres	380 acres with 1207 farmers in Rabi season	ACF Sankrail aims to ensure food security of the local population in a sustainable and eco-friendly manner. To improve productivity of food crops through improved practices [average increase of production by 43% and expenditure to agriculture decreases approximately by 12%] and management of natural resources [especially water, approximately less water consumption of 30%]. We have promoted SRI Rabi season in 380 acres of land with 1207 farmers. fertility of land increases due to uses of spacing, use of organic manures etc.
c	Off-season Vegetable Cultivation Program (Rain shelter & Scaffolding)	Farmers (no)	159	Farmers are harvesting leafy vegetables like Indian spinach (Palak), radish, coriander etc. They are raising saplings of cauliflower and tomato. Farmers are harvesting ridge gourd, snake gourd, bitter gourd, cow pea, cucumber etc. in poly tunnel & scaffolding method.
d	Outscaling Carp prawn mix culture	Farmers (No)	152	Farmers are preparing home made balanced fish feed and applying the same. Aquaculture programme implemented 152 no of ponds. Farmers are preparing and applying fish feed, preparing a solution with yeast powder to multiply the nutritional value and volume of fish feed, testing the water with PH paper, applying lime and KMnO <sub>4</sub> . Induced breeding of indigenous catfish & koi fish.
e	IEC material for Paraprofessionals	No	2	Training material prepared for Paraprofessionals on SRI & FPO promotion.
<b>2</b>	<b>Education</b>			
a	School Infrastructure Support	No	3	Painting of class rooms at Chaturbhujkati primary school and Chautrbhujkati ICDS. Drainage system 150 mtrs at D.A.V school
b	Education support / Events / Sports	No	16	16 nos different type cultural and sports events organized in collaboration with local clubs
<b>3</b>	<b>Health &amp; Sanitation</b>			
a	Health Camp	Nos	39	Mother & Child health programme for core villages. Mother covered 472 & children covered 300, ANC - 53 Nos.
b	Health Awareness	Nos	17	Awareness meeting held with Mothers 8 Nos during the period with 247 women. Hygiene & nutrition meeting held 9 Nos with 183 women.
c	Capacity Building	Nos	8	8 Nos training held in the issues of MCH & nutrition issues.
d	Sanitation programme awareness, motivation	No	13	13 nos Sanitation awareness programme with rally held in core villages for making Open Defecation Free village.
<b>4</b>	<b>HIV/AIDS HCC PROJECT</b>			
a	IPC (Target group covered)	No	9532	9532 truckers & allied covered in IPC / group session.
b	No. of STI clinics	No	109	The clinic proved to be very effective in terms of accessibilities and acceptability by the target population as the clinic is situated in the heart of Dhulagori with all basic facilities along with a team of self motivated professionals. As the target population like truckers don't access the medical facilities outside Dhulagori due to distance, lack of time and safety of their trucks. 2093 truckers treated at HCC



①

c	Street Play	No	6	Street play held in the important transit points to raise awareness on HIV/AIDS among the public
d	Magic Show / Puppet show/ Game show	No	18	Magic, Game show & Puppet shows held in the different important transit points to raise awareness on HIV/AIDS among the truckers.
e	P.E. Monthly Meetings	No	6	Monthly meeting of peer educator, who imparts guidances at villages during awareness sessions held regularly
i	Orientation of Stakeholder	No	2	HCC performance and vision project
j	Counseling Session	No	3351	Counselling services provided to 3351 no of truckers & helpers.
l	Social Marketing Codom	No	9300	9300 no of condom distributed through social marketing channel.
m	Satelite Clinic	No	22	22 nos of satellite clinic held in various transit point which covered 2806 patients
<b>5 Rural Infrastructure / community assets creation</b>				
a	Road /Guard wall Construction	mt	410	Construction of 270 meters Concrete road at Dhulagarh & Mohisgot village completed. Guardwall & Boundary wall constructed in Sulati, Mohisgote & Dhulagarh village.
b	RO plant	Nos	5	5 Nos of RO plants running successfully at 5 Nos core villages which ensure drinking water for 3000 HHs every day.
<b>6 Women Empowerment Programme</b>				
a	SHG Nos & members	No	106	9 Nos new SHG formed. ACF Sankrail is working with 106 women SHG involving 1217 members. Bank Loan Mobilized - 97,20,000/- RF mobilized - 870,000/-
b	Capacity Building/ Exposure /IWD	No	27	27 No training and 2 no exposure visit held with SHG members. 10 Group Management trainings, 6 Book keeping trainings, 3 Leadership development trainings, 2 loan Management trainings and 2 financial Literacy trainings and 4 credit planning training were conducted during the period
c	Meeting with the women for formation of group, selection of Name, rules & regulation and other social & safety issues	No	72	72 no meet held for new group formation and also various Social Issues/Safety Awareness. Apart from that, SHG members also took part in other social movements activities like as- Polio awareness camp, environment awareness camp, Plastic free societies and importance of tree plantations.
	No of Women in Livestock prog and doing earning like diary/ goatry/ poultry/duck rearing	Nos	317	Goat-121 & Poultry-196 Nos members are continuing as income generation activities.
b	Support for IGA & Marketing	No	534	5 types of IGA like Agriculture and alied (Livestock, bird, fish), small vending, Tailoring, Zari etc adopted by 534 members during the period. Preparation of IGA plan for individual SHG is under progress. Plan has been prepared for 608 members.
<b>7 Skill Eenterpreneurship Development Institute</b>				
a	Nos of students trained	No	278	SEDI has been working closely with local industries, and communities, to reach out to rural mass with special emphasis on the youth and thereby them an opportunity to transform their lives. SEDI Sankrail has successfully trained 278 candidates in various trades like Retail Management, Beauctician ,Mobile Repairing ,Basic Electrical,2/3 Wheeler Repairing , Customer Support Executive and Smart Sewing Machine Operator courses
b	No. of students placed	No	187	Our approach to training and placement is holistic and is geared towards each candidate our brand ambassador. Market Exposure and Mock Interviews are conducted periodically to make the trainees more familiar with the needs of the industry and also to build their confidence. We provide trainees with Internship opportunities trades like Retail Management and Customer Care Executive
<b>8 Stakeholder Engagement Events</b>				
b	Community Engagement events	No	4	4 events held (2 nos PIMC & two CAP programme held)
c	Safety Awareness Programme	No	122	122 Nos of Safety Awareness programme at community level held in the issues of Domestic Safety at Household level, Medical safety issues - Use of medical equipment, handwashing, thinks to remind during purchase of medicine, importance of Blood donation, myths and misconceptions etc., Agricultural safety issues, Road Safety and Automobile safety etc. covered 4592 beneficiaries.



2

Annexure - X (cont.)

EXPENDITURE DETAILS Oct'19 TO March 2020		
AMBUJA CEMENT FOUNDATION - SANKRAIL		
Sr. No	Programme / Activities	Expenses Rs. In Lakhs
		Oct'19 to Mar'20
1	Agro-Based Livelihood	1395336
2	Health & Sanitation	484396
3	Women Empowerment & CB Events	1125398
4	Rural Infrastructure Development	780073
5	Skill & Entrepreneurship Development Institute (SEDI)	12295428
6	Establishment	319903
Grand Total		16400534





## ACF Activities



Stakeholders engagement in planning of Activities



Off season Vegetable cultivation



Mechanization in SRI Cultivation



Health & Sanitation awareness meeting & Eye cam



Promotion of Polyhouse for Vegetable cultivation



Relief work during lockdown



## WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan

Bldg. No. 10 A, Block-LA, Sector-III, Bidhan Nagar,

Kolkata - 700 098

Tel : 0091 (033) 2335-9088 / 8861 / 8211 / 8073 / 6731

2335-0261 / 8212 / 8213 / 7428 / 5975

Fax : 0091 (033) 2335 6730 / 2813

Website : [www.wbpcb.gov.in](http://www.wbpcb.gov.in), e-mail : [wbpcbnet@wbpcb.gov.in](mailto:wbpcbnet@wbpcb.gov.in)

Authorisation letter no.:

Memo No. 111/2S(HW) - 1443/2003

Date: 06.06.2018

### FORM 2

#### Grant of Authorization under the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

Ref.: Application for fresh authorization dated 15/01/2018 for management & handling of hazardous & other waste.

1. Memo no. and date of previous authorisation issued by the Board 60/2S(HW)-1443/2003 dt. 30.04.2013.

2. M/s Ambuja Cements Limited, Unit: Sankrail of Vill & P.O.-Dhulagori, P.S.-Sankrail, Dist-Howrah, Pin-711302 is hereby granted an authorisation based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal, or any other use of hazardous or other wastes or both on the premises situated at Vill & P.O.-Dhulagori, P.S.-Sankrail, Dist-Howrah, Pin-711302.

#### Details of Authorisation

Sl. no.	Category of Hazardous Waste as per the Schedule I, II and III of these rules	Authorized mode of disposal or recycling or utilization or co-processing etc.	Quantity (ton/annum)
1	3.3	Recycling through authorized recyclers *	14.50
2	5.1	Recycling through authorized recyclers *	0.25
3	5.2	Disposal to CHWTSDF *	4.5

\*For detail refer to Specific Conditions.

2(1) Authorization shall be valid for a period up to 31/01/2023 w.e.f. the date of issue

2(2) The authorisation is subject to the following general and specific conditions:

[Chief Engineer]

Waste Management Cell

West Bengal Pollution Control Board





## FORM 10

2th Copy

## WEST BENGAL WASTE MANAGEMENT LIMITED

J.L. No. - 103, Mouza - Purba Srikrishnapur, P.O. &amp; P.S. - Sutahata, PIN - 721635, Haldia, Dist. - Purba Medinipur, West Bengal

## MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Ambuja Cements Limited unit Sankraid, PS Sankraid Dist. Howrah West Bengal 711302			
2	Sender's authorization No. :	62/25 (HW) - 1443/2003			
3	Manifest Document No. :	1 9942			
4	Transporter's name and address (including Phone No. and e-mail) :	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinipur, West Bengal, Ph. No.-03224-278238 / 39 E-mail : wbwml_haldia@ramky.com			
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)			
6	Transporter's registration No. :	1-MD(E)/X/06			
7	Vehicle registration No. :	WB 29 8073			
8	Receiver's name and mailing address (including Phone No. and e-mail) :	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinipur, West Bengal, Ph. No.-03224-278238 / 39 E-mail : wbwml_haldia@ramky.com			
9	Receiver's authorization No. :	75/25 (HW) - 1506/2003 (PT. IV)			
10	Waste description :	Used Grease			
11	Total quantity No. of Containers :	1.890 MT or MT 9 Nos.			
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)			
13	Special handling instructions and additional information	Handle with care			
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.			
	Name and stamp	Signature	Day	Month	Year
			2	4	10 2019
15	Transporter acknowledgement of receipt of Wastes :				
	Name and stamp	Signature	Day	Month	Year
	Debdulal Jana		2	4	10 2019
16	Receiver's certification for receipt of hazardous and other waste :				
	Name and stamp	Signature	Day	Month	Year
			2	4	10 2019

1. White Colour forwarded to WBPCB by HzW Sender

3. Pink Colour retained by HzW Receiver

5. Green Colour forwarded to WBPCP after disposal by HzW Receiver

2. Yellow Colour retained by HzW sender

4. Orange Colour retained by transporter

6. Blue Colour returned to sender after disposal by HzW Receiver

<b>Ambuja Cements Limited</b> SANKRAIL Ambuja Cements Limited Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, SANKRAIL 711302 Supplying State : West Bengal Supplying State Code : 19 <b>GSTIN : 19AAACG0569P1Z4</b> Order No. & Date: 2865604415 16.08.2019				Invoice Serial No: NE13191911023210		
				Invoice Date : 16.08.2019		
				Delivery No. & Date: 5364378276 16.08.2019		
				Customer PO : Batt.BuyBack5 Mail.14Aug.19		
				Canvasser/Promoter code:		
				Whether the tax is payable on reverse charge basis No		
Place of Supply(Incase of interstate supply) :				Phone No: Fax No:		
SAP Ref No: NE13 / SK27 / 2019 / SS / ZN4Y / 6833496079						
<b>Sold To Party: 9125224651 Mob:</b> M/S. BATTERY CENTRE PVT. LTD.  19, JITENDRA MOHAN DAS AVENUE HAZRA [KOL] Calcutta - 700006 State: West Bengal State Code: 19 <b>GSTIN / UID: 19AABCB3306N1ZN</b>				<b>Ship to Party: 9125224651 Mob:</b> M/S. BATTERY CENTRE PVT. LTD.  19, JITENDRA MOHAN DAS AVENUE Calcutta - 700006 Destination: HAZRA [KOL] State: West Bengal State Code: 19		
<b>Description of Goods</b>	<b>HSN Code</b>	<b>Qty</b>	<b>UOM</b>	<b>Rate</b>	<b>Particulars</b>	<b>Amount(Rs)</b>
SCRAP OLD BATTERIES	85481010	2.000	EA	2,200.00	Basic	4,400.00
					<b>Taxable Value of Supply of Goods</b>	4,400.00
					SGST @ 9.00 %	396.00
					CGST @ 9.00 %	396.00
					TCS 1.00 %	44.00
<b>Invoice value in words: Five Thousand Two Hundred Thirty Six Rupees Only</b>					<b>Total Invoice value</b>	5,236.00
Mode of Transport: Road	LR/RR No.:		Eway Bill No:			
Transporter Code: NE13	LR/RR Date: 16.08.2019		Eway Bill Date & Time:			
Transporter Name: SANKRAIL	Freight:		Incoterm: EXW			
Vehicle Reg.No: BY HAND	KM: 1.000					
<b>Remarks:</b>						
<b>Terms &amp; Conditions</b> 1. Price as applicable on the date of dispatch shall be charged. 2. Payment should be made by "A/C Payee only"-bank draft/cheque or bank remittance by NEFT/RTGS in favour of Ambuja Cements Ltd. 3. Payment to be made immediate from date of supply. Interest @ 24% p.a. shall be charged if payments is not received withing 30 days. 4. Delivery of goods shall be completed as soon as the goods are delivered to the carrier and title & all the risk of goods stands transfer to buyer immediately. 5. All disputes are subject to Mumbai jurisdiction only.						
Material received in Good Condition & in Quantity					For Ambuja Cements Limited <i>Siladitya Samkar.</i>	
(Receiver's Signature with seal)			(Prepared by)		(Authorised Signatory)	
*RMO-4,5&6th floor "Indicon Viva Building" Opp: Mukti World 53A Leela Roy Sarani, Kolkata, West Bengal-700019 website- www.ambujacement.com Reg. Office Address - P. O. Ambujanagar, Taluka Kodinar, Dist. Gr Somnath, Gujrat. Pin- 362715 PAN: AAACG0569P CIN: L26942GJI981PLC004717						

