

*Compliance of Environmental Clearance Conditions for Ambuja Cements Grinding Unit of Capacity 2.4 MTPA at Village Jala Dhulagori, Tehsil Sankrail, District Howrah in West Bengal*

*(Period: October-2017-March-2018)*

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 Ltd.

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

Date: 23<sup>rd</sup> June 2011

A	Specific Condition	Status of Compliance
	Condition	Status of Compliance
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 10 <sup>th</sup> May 2016, particulate matter emission is maintained below 30 mg/Nm <sup>3</sup> in all the stacks by installing Bag house in Roller Press & Bag Filter in all remaining stacks. Minimum – 0.9 mg / Nm <sup>3</sup> , Maximum – 28.4 mg / Nm <sup>3</sup> is observed in stack emission. Stack emission result data 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	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. Photograph of Bag Filter and water sprinkler arrangement is provided in Figure 6 & 10. Pedestrian Pathway (Figure 8) inside the factory premises

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	ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard	are constructed to ensure safe vehicular movement beside concreted road (Figure 9).  Ambient Air data is provided in <i>Annexure II</i>
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 11) Fly-ash is transported through closed bulkers only and over loaded quantity is not allowed. (Figure 7). Vehicular Emission is regularly monitored 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> /day and continuous efforts are made for water conservation through developing rain water harvesting, 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 & 12). 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	Roof top rain water harvesting on roofs of the colony quarters is prepared. Rain water harvesting provision at the roof of packing plant with an area of 7500 sq mtr is in progress .
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.
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, 4.78 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. Tree density is 1179 No./acre [estimated by Quick Field method] and survival rate is 98%. Different plants varieties [eg. Neem, Akashmani, Mahogany, Arjun, Chatim and Kadam] are planted in and around the plant.
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	For the period from Oct-2017 to March-2018, we have incurred Rs.178.81 lac towards CSR. Details attached in Annexure VIII-A.

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	Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner	
<b>B</b>	<b>General Condition</b>	
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 PM10, 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	Ambient air quality [Annexure-II] both in-house & measured by third party [along with NO <sub>x</sub> and SO <sub>2</sub> ] and stack emission [Annexure-I] 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. (Figure 10 & 12).
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. Ambient Noise monitoring data is minimum – 56.6 dBA, maximum 59.8 dBA at day time and minimum – 52 dBA, maximum – 53.6 dBA at night time. Proper noise control measures are used in plant area and PPE are used for more than five minutes exposure
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. Annual health check up done in Dec-2017 covering Test of Blood, Urine, ECG, PFT, Chest X-ray, 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 SRI cultivation by Ambuja Cement Foundation is 420415 m <sup>3</sup> for the year 2017-2018

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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 attached in Annexure VIII. Detailed activities are attached in Annexure VIIIA
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 towards environment pollution control measures, incurred during the period is Rs.396504 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	The copies of clearance letter has been sent to Dhulagori Gram Panchayat on dt. 20/08/2011, Zilla Parishad on dt. 20/08/2011.  No suggestion is received from the above bodies.  The clearance letter has also been put in company website
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	Online AAQM has been installed. This has been started from the month of April 2012. Data has been uploaded in website. The critical parameters are displayed on the main gate of the company. SO <sub>2</sub> , NO <sub>x</sub> data of Ambient measured by third party are attached in Annexure-II
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 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	The Form-V for the year ended 31 <sup>st</sup> March 2017 has been submitted to West Bengal Pollution Control Board on 22/09/2017. Attached photocopy of the same as annexure-VI. It has been uploaded in website also.
xv	The Project Proponent shall inform the public that the	Newspaper publications on 29 <sup>th</sup> June 2011 are enclosed



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	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	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



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

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CIN : U51109WB1931PTC007007



## TEST REPORT

No. AP-FG/17-18/598




Date: December 23, 2017

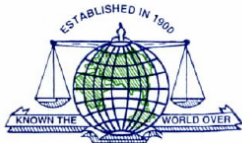
Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
<b>Your Ref.</b>		<b>: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017</b>		<b>Test Completed on : 22.12.2017</b>	
<b>Sample Description</b>		<b>: Stack Gas</b>			
<b>Date &amp; time of sampling</b>		<b>: 15.12.2017 at 01:10 P.M.</b>			
<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 sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 754 mmHg.					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	43	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	18.60	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	18609	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.3	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	23	50 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

  
( J. MUKHERJEE )  
Quality Manager

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

	<h2 style="margin: 0;">R. V. BRIGGS &amp; CO. PRIVATE LTD.</h2> <p style="margin: 0;"><b>ANALYTICAL CONSULTING &amp; TECHNICAL CHEMISTS</b></p> <p style="margin: 0;"><b>ESTABLISHED IN 1900</b></p> <p style="margin: 0;">TAHER MANSION, 1ST FLOOR</p> <p style="margin: 0;">9, BENTINCK STREET, KOLKATA - 700 001</p> <p style="margin: 0;">Ph. : 2248-3661/2698/7803, 2262-4153/4154, Fax : 33 2248-0447</p> <p style="margin: 0;">E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com</p> <p style="margin: 0;">CIN : U51109WB1931PTC007007</p>	 <p style="margin: 0;">NABL ACCREDITED LABORATORY Certificate No. T-0701</p>			
<h3 style="margin: 0;">TEST REPORT</h3>					
<b>No. AP-FG/17-18/597</b>		<b>Date: December 23, 2017</b>			
<b>Page 1 of 1</b>					
<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.</b> : SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017					
<b>Sample Description</b> : Stack Gas					
<b>Date &amp; time of sampling</b> : 13.12.2017 at 02:00 P.M.	<b>Test Completed on</b> : 22.12.2017				
<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 sampling &amp; analysis of gaseous emission :</b> Barometric pressure : 752 mmHg					
SI No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	94	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	8.30	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	35692	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.3	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	22	50 max.
<b>E. Pollution control device</b> Details of pollution control devices attached with the stack : Bag Filter.					
 <b>( J. MUKHERJEE )</b> Quality Manager Authorised Signatory For R.V.BRIGGS & CO. (P) LTD.					



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CIN : U51109WB1931PTC007007



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### TEST REPORT

No. AP-FG/17-18/588

Date: December 23, 2017

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<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL).</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
<b>Your Ref.</b>		<b>: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017</b>			
<b>Sample Description</b>		<b>: Stack Gas</b>			
<b>Date &amp; time of sampling</b>		<b>: 15.12.2017 at 12:30 P.M.</b>		<b>Test Completed on : 22.12.2017</b>	
<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 sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 752 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	81	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	10.60	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	26658	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.2	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	13	50 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

  
( J. MUKHERJEE )

Quality Manager

Authorised Signatory

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





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

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

CIN : U51109WB1931PTC007007



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Certificate No. T-0701

### TEST REPORT

No. AP-FG/17-18/599

Date: December 23, 2017

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<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.			
<b>Your Ref.</b>		: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017			
<b>Sample Description</b>		: Stack Gas			
<b>Date &amp; time of sampling</b>		: 13.12.2017 at 02:45 P.M.		<b>Test Completed on</b> : 22.12.2017	
<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 sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 754 mmHg.					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	39	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	18.60	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	18699	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.2	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	20	50 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

  
(J. MUKHERJEE)

Quality Manager

Authorised Signatory

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





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

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

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

CIN : U51109WB1931PTC007007



NABL ACCREDITED  
LABORATORY  
Certificate No. T-0701

### TEST REPORT

No. AP-FG/17-18/590

Date: December 23, 2017

Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL).</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
<b>Your Ref. No.</b>		<b>: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017</b>			
<b>Sample Description</b>		<b>: Stack Gas</b>			
<b>Date &amp; time of sampling</b>		<b>: 13.12.2017 at 12:15 P.M.</b>		<b>Test Completed on : 22.12.2017</b>	
<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 sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 752 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	90	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	8.92	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	25398	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.2	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	24	50 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

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### TEST REPORT

No. AP-FG/17-18/589

Date: December 23, 2017

Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
<b>Your Ref.</b>		<b>: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017</b>			
<b>Sample Description</b>		<b>: Stack Gas</b>			
<b>Date &amp; time of sampling</b>		<b>: 13.12.2017 at 12:45 P.M.</b>		<b>Test Completed on : 22.12.2017</b>	
<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 sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 752 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	71	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	10.90	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	21068	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.3	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	23	50 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

  
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### TEST REPORT

No. AP-FG/17-18/594

Date: December 23, 2017

Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
<b>Your Ref.</b>		<b>: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017</b>			
<b>Sample Description</b>		<b>: Stack Gas</b>			
<b>Date &amp; time of sampling</b>		<b>: 12.12.2017 at 02:30 P.M.</b>		<b>Test Completed on : 22.12.2017</b>	
<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 sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 750 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	33	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	12.50	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	33139	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.2	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	22	50 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

  
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CIN : U51109WB1931PTC007007



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### TEST REPORT

No. AP-FG/17-18/593

Date: December 23, 2017

Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
Your Ref.		: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017			
Sample Description		: Stack Gas			
Date & time of sampling		: 12.12.2017 at 03:10 P.M.		Test Completed on : 22.12.2017	
<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 sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 752 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	30	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	12.50	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	38506	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.4	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	15	50 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

  
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### TEST REPORT

No. AP-FG/17-18/595

Date: December 23, 2017

Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
<b>Your Ref.</b>		<b>: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017</b>			
<b>Sample Description</b>		<b>: Stack Gas</b>			
<b>Date &amp; time of sampling</b>		<b>: 15.12.2017 at 03:30 P.M.</b>		<b>Test Completed on : 22.12.2017</b>	
<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 sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 752 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	34	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	9.20	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	30052	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.4	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	11	50 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

  
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### TEST REPORT

No. AP-FG/17-18/591

Date: December 23, 2017

Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
<b>Your Ref.</b>		<b>: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017</b>			
<b>Sample Description</b>		<b>: Stack Gas</b>			
<b>Date &amp; time of sampling</b>		<b>: 15.12.2017 at 02:15 P.M.</b>		<b>Test Completed on : 22.12.2017</b>	
<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 sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 752 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	32	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	9.80	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	34199	N.A
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.3	N.A
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	10	50 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Bag Filter.					

( J. MUKHERJEE )

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### TEST REPORT

No. AP-FG/17-18/600

Date: December 23, 2017

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.</b> : SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017	<b>Test Completed on</b> : 22.12.2017				
<b>Sample Description</b> : Stack Gas					
<b>Date &amp; time of sampling</b> : 16.12.2017 at 10:20 A.M.					
<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 : 8150 KVA					
<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 : 1000 Lt./hr.					
<b>D. Results of sampling &amp; analysis of gaseous emission :</b> Barometric pressure : 752 mmHg.					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	210	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	12.80	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	Nm <sup>3</sup> /hr	23514	N.A
4.	Sulphur dioxide	CPCB ( ER ), 1985	mg/Nm <sup>3</sup>	168.0	N.A
5.	Nitrogen dioxide	ASTM D 1608	mg/Nm <sup>3</sup>	137.0	N.A
6.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
7.	Carbon dioxide	APHA - ORSAT	% v/v	7.6	N.A
8.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	38	150 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

( J. MUKHERJEE )

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### TEST REPORT

No. AP-FG/17-18/601

Date: December 23, 2017

Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
<b>Your Ref.</b>		<b>: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017</b>			
<b>Sample Description</b>		<b>: Stack Gas</b>			
<b>Date &amp; time of sampling</b>		<b>: 16.12.2017 at 11:00 A.M.</b>		<b>Test Completed on : 22.12.2017</b>	
<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		: 5430 KVA			
<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 : 700 Lt./hr.			
<b>D. Results of sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 752 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	248	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	14.60	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	21598	N.A
4.	Sulphur dioxide	CPCB ( ER ), 1985	mg/Nm <sup>3</sup>	236.0	N.A
5.	Nitrogen dioxide	ASTM D 1608	mg/Nm <sup>3</sup>	189.0	N.A
6.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
7.	Carbon dioxide	APHA - ORSAT	% v/v	7.8	N.A
8.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	40	150 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

  
( J. MUKHERJEE )

Quality Manager

Authorised Signatory

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





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

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

ESTABLISHED IN 1900

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. T-0701

### TEST REPORT

No. AP-FG/17-18/602

Date: December 23, 2017

Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
<b>Your Ref.</b>		<b>: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017</b>		<b>Test Completed on : 22.12.2017</b>	
<b>Sample Description</b>		<b>: Stack Gas</b>			
<b>Date &amp; time of sampling</b>		<b>: 16.12.2017 at 11:45 A.M.</b>			
<b>A. General information about stack :</b>					
1. Stack connected to		: DG - III			
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		: 1250 KVA			
<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 : High Speed Diesel		2. Fuel consumption : 200 Lt./hr.			
<b>D. Results of sampling &amp; analysis of gaseous emission :</b>		Barometric pressure : 752 mmHg			
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	180	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	12.80	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	20598	N.A
4.	Sulphur dioxide	CPCB ( ER ), 1985	mg/Nm <sup>3</sup>	138.0	N.A
5.	Nitrogen dioxide	ASTM D 1608	mg/Nm <sup>3</sup>	111.0	N.A
6.	Carbon monoxide	APIA - ORSAT	% v/v	<0.2	N.A
7.	Carbon dioxide	APIA - ORSAT	% v/v	7.2	N.A
8.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	38	150 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

  
(J. MUKHERJEE)

Quality Manager

Authorised Signatory

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



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

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

ESTABLISHED IN 1900

TAHER MANSION, 1ST FLOOR

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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. T-0701

### TEST REPORT

No. AP-FG/17-18/603

Date: December 23, 2017

Page 1 of 1

<b>Issued to</b>		<b>: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)</b>			
<b>Address</b>		<b>: Jaladhulagori, Vill &amp; P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.</b>			
Your Ref.		: SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017			
Sample Description		: Stack Gas			
Date & time of sampling		: 16.12.2017 at 12:30 P.M.		Test Completed on : 22.12.2017	
<b>A. General information about stack :</b>					
1. Stack connected to		: DG - IV			
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		: 7550 KVA			
<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 : 1000 Lt./hr.			
<b>D. Results of sampling &amp; analysis of gaseous emission :</b>					
Barometric pressure : 752 mmHg					
Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	258	N.A
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	14.80	N.A
3.	Quantity of gas flow	IS 11255 : Part 3 : 1985	NM <sup>3</sup> /hr	22895	N.A
4.	Sulphur dioxide	CPCB ( ER ), 1985	mg/Nm <sup>3</sup>	262.0	N.A
5.	Nitrogen dioxide	ASTM D 1608	mg/Nm <sup>3</sup>	140.0	N.A
6.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A
7.	Carbon dioxide	APHA - ORSAT	% v/v	8.0	N.A
8.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm <sup>3</sup>	42	150 max.
<b>E. Pollution control device</b>					
Details of pollution control devices attached with the stack : Nil.					

( J. MUKHERJEE )

Quality Manager

Authorised Signatory

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





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

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

ESTABLISHED IN 1900

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. T-0701

### TEST REPORT

No. AP-AAQ/17-18/560

Date: December 23, 2017

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. No. : SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017  
Description of Sample : Ambient Air.  
Location : Near Contractor's Room.  
Date of Monitoring : 12.12.2017  
Analysis completed on : 18.12.2017

#### ENVIRONMENTAL CONDITION

- (i) Barometric Pressure : 754 - 750 mmHg  
(ii) Temperature : 32.0°C – 24.0°C

#### TEST FINDINGS :-

Sl. No.	Test Parameters	Test method	Unit	Results Time weighted average (24hrs.)	Norms as per MOE & F Notification, New Delhi, 16 <sup>th</sup> November, 2009
1.	Particulate Matter (PM <sub>10</sub> ), Size ≤ 10µm	IS 5182 ( Part - 23 ): 2006 Reaffirmed 2012	µg/m <sup>3</sup>	82	100 (24 Hourly)
2.	Particulate Matter (PM <sub>2.5</sub> ), Size ≤ 2.5µm	USEPA 1997a, 40 CFR Part 50, Appendix L.	µg/m <sup>3</sup>	38	60 (24 Hourly)
3.	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 ( Part - 2 ): 2001 Reaffirmed 2006	µg/m <sup>3</sup>	5.8	80 (24 Hourly)
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 ( Part - 6 ): 2006 1 <sup>st</sup> Revision	µg/m <sup>3</sup>	54.0	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)

(J. MUKHERJEE)  
Quality Manager

Authorised signatory  
For R.V.BRIGGS & CO. PRIVATE LTD.



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

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

ESTABLISHED IN 1900

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. T-0701

### TEST REPORT

No. AP-AAQ/17-18/561

Date: December 23, 2017

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. No. : SAP PO No/Plant 2800642024/NE13 dtd. 11.04.2017  
Description of Sample : Ambient Air.  
Location : Near RO Plant.  
Date of Monitoring : 12.12.2017  
Analysis completed on : 18.12.2017

#### ENVIRONMENTAL CONDITION

- (i) Barometric Pressure : 754 - 750 mmHg  
(ii) Temperature : 32.0°C – 24.0°C

#### TEST FINDINGS :-

Sl. No.	Test Parameters	Test method	Unit	Results Time weighted average (24hrs.)	Norms as per MOE & F Notification, New Delhi, 16 <sup>th</sup> November, 2009
1.	Particulate Matter (PM <sub>10</sub> ), Size ≤ 10µm	IS 5182 ( Part – 23 ): 2006 Reaffirmed 2012	µg/m <sup>3</sup>	92	100 (24 Hourly)
2.	Particulate Matter (PM <sub>2.5</sub> ), Size ≤ 2.5µm	USEPA 1997a, 40 CFR Part 50, Appendix L.	µg/m <sup>3</sup>	42	60 (24 Hourly)
3.	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 ( Part – 2 ): 2001 Reaffirmed 2006	µg/m <sup>3</sup>	6.9	80 (24 Hourly)
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 ( Part – 6 ): 2006 1 <sup>st</sup> Revision	µg/m <sup>3</sup>	44.7	80 (24 Hourly)
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m <sup>3</sup>	1.32	04 (1 Hourly)

(J. MUKHERJEE)  
Quality Manager

Authorised signatory  
For R.V.BRIGGS & CO. PRIVATE LTD.

**Stack Emission Data for October-2017-March-2018 along with Stack details**

Month	Data	CM-1 Roller Press	CM-1 Venting	Packer-1	Packer-3 Main	CM-2 O'sepa	CM-2 Venting	Packer-2	Packer-4 Main
		Dia.:(m): 1.5 Height(m): 71.5	Dia.:(m): 1.05 Height(m): 32	Dia.:(m): 1 Height(m): 30	Dia.:(m): 1.1 Height(m): 36.5	Dia.:(m): 1.05 Height(m): 32	Dia.:(m): 1.05 Height(m): 32	Dia.:(m): 1 Height(m): 30	Dia.:(m): 1.1 Height(m): 37.7
Oct-17	Avg	10.3	12.8	9.1	3.3	13.0	4.0	7.6	13.0
Nov-17	Avg	14.7	14.8	8.7	6.6	13.2	14.3	10.2	10.4
Dec-17	Avg	14.0	12.5	11.5	5.9	8.3	10.6	15.2	6.8
Jan-17	Avg	13.4	15.6	11.5	8.8	3.6	10.2	14.8	10.0
Feb-17	Avg	12.0	9.5	11.4	7.5	10.8	6.0	14.2	3.4
Mar-17	Avg	10.3	8.7	11.4	8.8	6.2	6.8	14.1	4.7

**Annexure-II**

**CAAQMS Data for Oct-March-2018**

Month	PM-10 in µg/m3			PM-2.5 in µg/m3			SO2 in µg/m3		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
Oct	16.2	51.7	27.6	8.3	30.5	15.2	11.7	12.3	12.0
Nov	23.4	82.4	43.3	11.8	28.3	18.4	11.8	12.3	12.0
Dec	21.2	79.3	57.8	10.4	50.3	27.3	11.8	12.2	12.0
Jan	58.6	95.6	77.5	11.2	20.8	14.4	11.7	12.4	12.0
Feb	40.6	98.0	70.1	17.3	38.0	23.7	11.7	12.1	12.0
Mar	41.8	88.0	63.5	14.1	50.3	33.8	4.5	15.5	7.0

**Annexure-III**

<b>Fugitive Emission Monitoring Data [<math>\mu\text{g}/\text{m}^3</math>]</b>			
<b>Sr. No.</b>	<b>Location</b>	<b>4th Quarter</b>	<b>1st Quarter</b>
		<b>Total Particulate Matter</b>	<b>Total Particulate Matter</b>
		<b>microgram/<math>\text{m}^3</math></b>	<b>microgram/<math>\text{m}^3</math></b>
1	Near Hopper Bld.	1337.82	1366.00
2	Near Roller Press Building	2310.52	1935.12
3	B/h Clinker Silo	1843.09	1771.30
4	Packer ground floor	4401.33	4465.62
5	Near FA silo	3172.65	3266.07
6	Near Wagon Tippler	2432.74	3154.36




# Annexure-IV

**FORM 4**  
 [See Rules 9(3) and 10(5)]  
 (EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)  
**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.]

**033730**


PERMIT NO. P0609002010740000001 TLE

- (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 : BP/A, 0154, S.L.No. 9, 2-3-2011  
 and date of submission  
 (f) Specimen signature of the user : [Signature]
- Location particulars---  
 (a) District : HOWRAH  
 (b) Block, Mouza, J. L. No., Plot No. : SANKRAIL, SALADHULAGORI,  
 (c) Municipality / Corporation : 002, 1074  
 Ward No. / Borough No., Holding No. : N.A.
- Particulars of the proposed well and pumping device---  
 (a) Type of the well : TUBEWELL  
 (b) Approx. depth of the well (m) : 250 meters.  
 (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

  
**OFFICE SEAL**

[Signature]  
 21/6/2011  
 Signature of the Issuing Authority  
 &  
 Member Secretary  
 Howrah District  
 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.


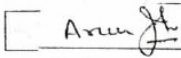
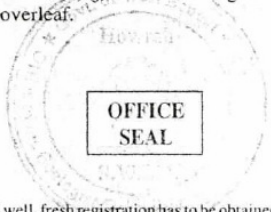
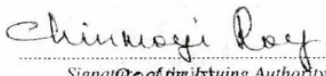
  
**OFFICE SEAL**

B.C.L./4/50,000/06



(Period: October-2017-March-2018)

**Annexure-V**

<b>FORM 4</b> [See Rules 9(3) and 10(5)] (EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)		033739
<b>PERMIT FOR SINKING OF NEW WELL</b> [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. <u>P060900201963 000000ITSE</u>		
1. (a) Name of the applicant (user)		: Shri/Smt. M/S AMBUJA CEMENTS LTD.
(b) Son / Daughter of		: N/A
(c) Address of the applicant		: Dhulagori, Sankrail; Howrah
(d) Category of farmer (Please tick) (in case of irrigation well)		: <input checked="" type="checkbox"/> Small Farmer / Marginal Farmer / Others
(e) Serial No. of application Form and date of submission		: BP/A 0154; 81-3 dt. 6/9/11
(f) Specimen signature of the user		: 
2. Location particulars---		
(a) District		: Howrah
(b) Block, Mouza, J. L. No., Plot No.		: Sankrail / Taladhulagori / 002
(c) Municipality / Corporation Ward No. / Borough No., Holding No.		: Plot - 1963
3. Particulars of the proposed well and pumping device---		
(a) Type of the well		: Tube Well
(b) Approx. depth of the well (m)		: 250m
(c) Purpose of the well		: Domestic
(d) Assembly size (for tube well)		: 127 mm. X 76.2mm.
(e) Approx. strainer length (for tube well)		: 18 m.
(f) Diameter (for dug well)		: m.
(g) Type of pump to be used		: Submersible
(h) H. P. of the pump		: 3.5 H.P.
(i) Operational device		: Electric Motor
(j) Rate of withdrawal (m <sup>3</sup> /hr.)		: 15 m <sup>3</sup> /hr.
(k) Maximum allowable running hours per day		: 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) (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 : <u>Howrah</u>		
Date : <u>18/2/12</u>	OFFICE SEAL	Signature of the Issuing Authority and Designation.
Conditions :		Member Secretary Ground Water Resources Development Authority
(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. Chay.		
OFFICE SEAL		

**Annexure-VI**

**Ambuja  
Cement**

ACL/SK/ENV/09-17/280  
Date: 21/09/2017

West Bengal Pollution Control Board  
(Department of Environment, Govt of West Bengal)  
Howrah Regional Office  
"Minority Bhawan", 5<sup>th</sup> Floor  
Alipore  
Kolkata - 700 027

Received  
Contents Not Verified  
W.B. Pollution Control Board  
Howrah Regional Office  
A. Bhattacharya  
22/9/17

**Kind Attention : Mr Arup K Dey**  
**Environmental Engineer & In-Charge of Office**

**Sub: Environment Statement for the Financial Year ending the 31<sup>st</sup> March 2017**

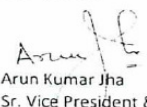
Dear Sir,

Enclosed please find the Environment Statement (Form-V) of our unit for the year 2016 - 2017.

Thanking you

Yours faithfully

for Ambuja Cements Limited  
Unit: Sankrail

  
Arun Kumar Jha  
Sr. Vice President & Unit Head

Encl : as above

**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 : 2451 7744 / 8413)  
(Regd. Off. : P.O. : Ambujanagar, Taluka : Kodinar, District : Gir Somnath, Gujarat - 362715)  
CIN Nos. L26942GJ1981 PLC004717, Website : www.ambujacement.com

[FORM - V]

(See Rule - 14)

Environmental Statement for the financial year ending the 31<sup>st</sup> March 2017

PART - A

- i) Name and Address of the Owner/Occupier of the industry operation or process : Ambuja Cements Limited, Unit :Sankrail, Jaladhulagari P.O. & Vill - Dhulagori Sankrail, Howrah - 711 302 West Bengal
- ii) Industry Category : Cement Grinding Unit [Large Scale]  
Primary - (STS Code) :  
Secondary - (Sic Code) :
- iii) Production Capacity - Units : 2.40 million ton cement per year
- iv) Year of establishment : 2001
- v) Data of the last environmental Statement submitted : 28.09.2016

PART - B

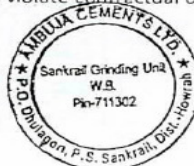
Water & Raw Materials Consumption

1. Water Consumption m<sup>3</sup>/d : 238 (approx)  
2. Process m<sup>3</sup>/d : Nil  
3. Domestic m<sup>3</sup>/d : 77 (approx)  
4. Boiler Feeding m<sup>3</sup>/d : Nil  
5. Cooling / Industrial m<sup>3</sup>/d : 161 (approx)

Name of the Products	Process water consumption per unit of product output	
	During the previous Financial Year	During the Current Financial Year
	(1)	(2)
Cement	Not Applicable, Cement Production is a dry process	

2. Raw Material Consumption			
Name of Raw Materials	Name of product	Consumption of Raw Material per unit of output	
		During the previous Financial Year	During the Current Financial Year
Clinker	Cement	1022769	1080047
Gypsum		64662	61916
Fly ash		450731	498260
Granulated Slag		4252	6401

\* Industry may use codes if details of raw material would violate contractual obligations otherwise all industries have to name the raw materials used.



*Alaker*



PART - C

Pollutant discharged to environment/unit of output  
(Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged [mass/day]	Concentrations of Pollutants discharges [mass/day]	Percentage of variation from prescribed standards with reasons
SPM from	Nm <sup>3</sup> /h	mg/Nm <sup>3</sup>	
Cement Mill-1 Hopper	10701	11	NA
Cement Mill-1 Venting	24597	07	NA
Roller Press	27580	19	NA
Cement Mill-2 Hopper	9111	28	NA
Cement Mill-2 Venting	22038	21	NA
Cement Mill-2 Separator	26379	17	NA
Packer-1	30741	15	NA
Packer-2	28440	13	NA
Packer-3	27866	12	NA
Packer-4	28669	19	NA
DG-1	24083	37	NA
DG-2	21644	51	NA

PART - D

HAZARDOUS WASTES

(As specified under Hazardous Wastes/Management and Handling Rules, 1989)

Hazardous Waste	Total quantity [kg]	
	During the previous financial year	During the current financial year
a) From Process	NA	NA
b) From Pollution Control Facilities	NA	NA

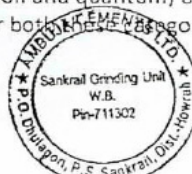
PART - E

SOLID WASTES

Hazardous Waste	Total quantity [kg]	
	During the previous financial year	During the current financial year
a) From Process	NA	NA
b) From Pollution Control Facilities	NA	NA
c 1) Quantity recycled or reutilized within the unit	No solid waste is generated from Process and Pollution Control facilities	
c 2) Sold	--	--
c 3) disposed	--	--

PART - F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both the categories of wastes.



*Alaka*

Used oil originating from compressors, pumps and other machinery are collected in oil drums. Similarly used oil is generated in the DG sets. This is also collected in drums. After filling in the barrels they are temporarily stored in a yard provided with pavement, curb walls. Waste oil generated in the DG sets is collected and stored in a tank. These Waste oil/Used oil are then sold to State Pollution Control Board certified & registered agencies having adequate facility for refining and disposal of hazardous waste.

**PART - G**

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

The dust collected in bag filters is recycled in process. The activities of the company have no adverse effect on the natural resources. Moreover 30% [approx] of clinker [ultimately saved approx 46% of lime stone, which is a natural resource] is saved by using fly ash, which is a waste from Thermal Power Plant.

**PART - H**

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

Additional investment proposed in the Budget 2016-2017 is ₹ 71 lac.

Expenditure regarding Capex for this financial year is ₹ 10.32 lac.

**PART - I**

Any other particular for improving the quality of the environment.

1. Installed Continuous Ambient Air Quality Monitoring Station (CAAQMS) at plant to monitor Ambient Air Quality continuously and LED display board installed at the Main gate facing the road for the public.
2. Meteorological station comprising facilities to monitor rainfall, maximum and minimum temperature, relative humidity, barometric pressure, wind direction and velocity has been established
3. Installed Continuous Environment Monitoring Systems at various chimney stacks.
4. Concretization of truck yard [15000 m<sup>2</sup>].
5. Reuses of recycled water from Sewage Treatment Plant for dust suppression and gardening.
6. Deployment of Industrial Vacuum Cleaner to clean the accumulated material at pit during maintenance.
7. Development and installation of network of dust collection at plant through Industrial Vacuum Cleaner.
8. Recycling of dust collected at plant through Industrial Vacuum Cleaner.
9. Plant road cleaning with the help of Roots Hako cleaner.
10. Roof top rain water harvesting at colony building.
11. Plantation at different locations of plant.
12. Conducting public awareness programs in the neighborhood for public in environmental and safety aspects.
13. Environmental Management System (EMS) in line with ISO 14001:2004 is implemented and certified by M/s Det Norske Veritas GL, Kolkata, which is valid up to 15.09.2018, which helps to Improve Employee morale, tracks objectives and targets measurable and their improvement. It also helps to quantify, monitor and controlling the impact of operations on the environment both in present and future.
14. Energy Management System (EnMS) in line with ISO 50001:2011 is implemented and certified by M/s Det Norske Veritas GL, Kolkata, which is valid up to 11.08.2020.
15. Roller Press has been installed as a pre-grinder to Cement Mill-1 helps to reduce energy consumption.



16. "World Environment Day" celebrated at plant for employees and neighborhood to create the environmental awareness.
17. Earth hour is organized at township by switching off all the lights to conserve energy and to spread awareness towards environment.
18. Earth day were celebrated with organized events to create awareness towards Mother Earth.
19. LED lights are installed at plant roads and Security Barrack for conservation of energy.
20. Energy efficient lights installed at various office locations.
21. Nibs trap installed at both cement mills to collect nibs generated during cement grinding to reduce unwanted load in cement mills, results reduction of power consumption.
22. Identification of e wastes and disposal to authorized party.
23. Recycled water sprinkling on roads through water sprinkler.
24. Excavated ponds at nearby villages to harvest rain water.
25. Promote and awareness given to villagers to produce paddy through SRI cultivation which saves more yield and need less water consumption.
26. Provided RO water through installation at five no. of RO plant in the villages.
27. Sanitation program awareness conducted at villages to make open defecation free villages.
28. Toilet construction supports to individuals at villages.
29. Live stock vaccination camps were held at villages.



Annexure-VII

# KOLKATA TUESDAY 28 JUNE 2011

## The Statesman

### 2

# ered J Dey killing'

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

The state home minister Mr RR Patil 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.

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 Parel, where Mid-Day office is located or Spectra Building in Chhatrapati Shivaji Maharaj

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 on very first day.

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 05 July, 2011 at 12 noon for 3 Research Fellows for different projects: (1) Modelling and finite element simulation of Uniaxial and Bi-axial low cycle fatigue and Ratcheting. (2) Missile Mass properties and measurement system. (3) Modelling 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 PIV / PDA.

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. (B0006)

Advocate  
309, Purba Sinthee Place  
Dam Dum, Kolkata-700030  
Phone No. 25484340  
Mobile No. 9433098249  
9051224449  
(B0001) C0004

**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 accorded 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://envfor.nic.in> (C0004)

**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. (C0054)

**I, JENNIFER Baker**, W/o. Keith Patrick Baker, do hereby declare that my son, Peter Leo Jockim, shall henceforth be known as Peter Leo Baker, vide affidavit sworn before the Learned Notary at Kolkata on 27-05-2004. (C0048)

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

(B0005) COMMENT  
**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. Scaldah, 24 Pgs (S) and a written complaint has been lodged before Kasba P.S. vide GDE No. 2186 dated 22-02-2011. If any person finds the original document or have any knowledge please return the same to the undermentioned within 10 days from the date of publication and thereafter no claim will be entertained through the said Original Lease Deed.

Saubhik Roy  
Advocate  
8981720880  
9163316107  
(B0003) C0046

### TENDERS

**STEEL AUTHORITY OF INDIA LIMITED**  
(A Govt. of India Enterprise)  
**SAIL Refractory Unit**  
Bhandaridah  
P.O. Bhandaridah-829132,  
Dist: Bokaro  
Jharkhand (India)  
(Formerly Bharat Refractories Limited)  
(Bhandaridah Refractories Plant)

Phone Number: 06549-239233 / 06549-239220 (Fax) / 06542-23672 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 01 No.

Cost of tender document: Rs. 500 (Rupees five hundred) only by Cash and Rs. 600 (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.saitenders.co.in](http://www.saitenders.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 peep hole.

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 (Loc in two side walls)

Molybdenum disilicide

MoSi2 'U' shape heating element

Grade Kanthal S

1800°C.

Dia - 6/12 mm.

Le-225 mm, Lu-250 mm

45 or 60 mm No. of elements

- 6 Nos.

Operating Temperature

Continuous Operation

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) C00

### OFFICE OF THE JT. CHIEF UNIVERSITY ENGINEER

North Bengal University

TENDER NOTICE NO

JT. CHIEF UE/2011-12A

Dt.: 27-06-2011

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

1) Replacement asbestos sheet including supporting frame work and other necessary works in old portion of N.B.U. Prima School. Estimated Value

Alaka

১২

সংবাদ প্রতিদিন

বুধবার ২৯ জুন ২০১১

## জ্ঞাপন

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### বিজ্ঞপ্তি

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

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

ডিস্ট্রিক্ট ডেলিগেট আদালত  
আসানসোল

উইল.প্রবেট কেস নং ৯১/১১  
দরখাস্তকারী :- টীরঞ্জি মিত্র  
এতদ্বারা সর্বসাধারণকে জানানো  
হইতেছে যে উপরোক্ত দরখাস্তকারী  
তাহার মৃত সৎ ভ্রাতা শিশিরকুমার মিত্র,  
সং গৌর মণ্ডল রোড, হাটিন রোডের  
নিকট পোস্ট ও থানা-আসানসোল,  
জিলা বর্ধমান কর্তৃক ইং ৬.৩.০৮ তাং  
কর্তৃক সম্পাদিত ও ত্যক্ত উইলের  
প্রবেট পাইবার জন্য অত্র আদালতে  
উক্ত কেস রজু করিয়াছেন।

কাহারো আপত্তি থাকিলে এই  
বিজ্ঞপ্তি প্রকাশের এক মাসের মধ্যে  
কারণ দর্শাইবেন নচেৎ উক্ত মামলাটির  
এক তরফা অনানী 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, সং  
কুনুস্তোরিয়া এরিয়া কমপ্লেক্স, পোস্ট  
তপসী, থানা-জামুরিয়া, জিলা বর্ধমান  
এর এন্ট্রেন্টের ১,৬৮,৪১৩ টাকা  
আদায়ের জন্য

### পত্রমিতালি

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

**ফ্রেডস ওয়ার্ল্ড**  
ঠিকার দিন শেষ। ফি 500/-  
পশ্চিমবঙ্গের প্রত্যেকটি মহকুমায়  
বন্ধুত্ব। 8017647175 296/72

**ফ্রেডস গুরু**  
বছরের পর বছর সঠিক পরিসেবা।  
সঠিক ও সৎ বন্ধুত্ব। বোন্ড রিলেশন।  
ফি-400/-, 9831318566 296/73

**হ্যারি ক্লাব**  
গ্যারান্টি সহ সঠিক বন্ধুত্ব করুন হাই  
প্রোফাইল মহিলাদের সঙ্গে।  
ফি-500/- 9748509750. 296/74

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

**রনি ক্লাব**  
হাই প্রোফাইল দেশি-বিদেশি মহিলা  
সঙ্গে বন্ধুত্ব। ১০০% গ্যারান্টি।  
ফি-450/- 8697442765 296/76

**ফ্রেডস ভ্যালি**  
বন্ধুদের চেটা? মেটাতে পারি আমরা।  
বন্ধু ও বোন্ড রিলেশন।  
8017455103/8017454887. 296/77

গভীর সম্পর্ক বন্ধু/বান্ধবীর জন্য  
কোন ফ্রান্স বিশ্বাসের সাথে।  
8017398210/8820371819 296/80

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

**Deepika Club** : বন্ধুদের  
হাতছানি ও উষ্ণ অনুভূতির ছোঁয়া। ফি-  
500/-9748285738/ 9748778467/  
9051538829. 296/122

**বন্ধুত্ব করাবো**  
জীবনকে মাধুর্যময় করতে সেরা  
বন্ধু/বান্ধবীর সন্ধান লাভ N  
দস্তি। 9330626460 / 9330626403/  
9330626380/ 9330626520

### শিক্ষা

**D.Ed (P.T.T.),  
B.Ed, B.P.Ed,**  
NCTE & UGC অনুমোদিত কোর্সে  
ভর্তির জন্য বেসল সার্জেশন  
সেন্টারের নিম্নলিখিত ব্রাঞ্চে  
যোগাযোগ করুন।  
সোনানপুর-8902040388,  
বসিরহাট-9831822159,  
রানাঘাট-9734319827,  
গড়বেতা-9733563181,  
গুসকরা- 9474539452,  
বহরমপুর- 9733599694,  
রামপুরহাট - 8768501518,  
মুরাড়াই - 9153557604,  
তালভাড়া - 9641925769  
মালদা- 9735912770

সম্পাদক পবন চৌধুরী, বেসল  
সার্জেশন সেন্টার, তিনকোনিয়া  
বাসস্টাড, রামকৃষ্ণ মার্কেট কমপ্লেক্স  
(দ্বিতল) বর্ধমান। M-9434211612  
বিঃ দ্রঃ-ফ্রানচাইজি নিতে আগ্রহী  
ব্যক্তিগণ সম্পাদকের ফোন নম্বরে  
যোগাযোগ করুন। 296/17

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

**গ্লিমিং শিক্ষায় স্বনির্ভর হোন!**  
ভারতবর্ষে এই প্রথম কম সময়ে,  
কম ব্যয়ে আন্তর্জাতিক রোগা ও  
শেপিং করানো সঠিক চিকিৎসা  
পদ্ধতি শিখে গ্লিমিং থেরাপিস্ট ও  
ওবিসিটি কনসালটেন্ট হিসেবে কাজ  
করুন। কোর্স শুরু থেকেই  
আশাভীত আয়ের সুযোগ। ১০০%  
ফাজের সহায়তা।

**অতীন'স কমপ্লিট গ্লিমিং  
সলিউশন অ্যান্ড  
ট্রেনিং সেন্টার**  
9831316829, 9038968454  
296/19

**UGC-DEC স্বীকৃত  
State Govt. University**  
M.Tech, B.Tech, Dip. in Egn.  
B.A., B.Sc, B.Com, MA, M.Sc,  
M.Com, BBA, MBA, MSc(IT),  
BCA, MCA, B.Lib, M.Lib-তে  
ভর্তি চলিতেছে। (বাংলায়  
পরীক্ষার ব্যবস্থা আছে) VIPS -  
যাদবপুর - 9477081571



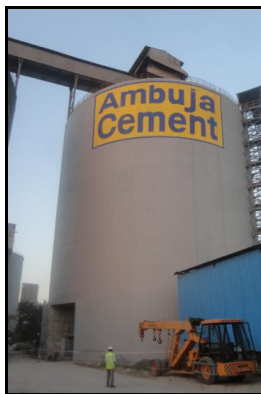
**Annexure-VIII**  
**Photographs of Plant**



**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 : Covered Clinker Rake**



**Fig 12 : Sewage Treatment Plant**

**Annexure-VIII A**

<b>Ambuja Cement Foundation, Sankrail Progress Report (October 2017 to March 2018)</b>				
Sr. No.	Activities	Unit	Cumulative Achievement	Details of the activity
				Issue / Area/ village
1	Agrobased Livelihood			
1	Promotion of System of Rice Intensification			
a	Farmer's Training Programme	Farmers (No)	3352	Capacity building programme conducted with 3352 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 as well as 52 no farmers have been developed as paraprofessionals on these subjects.
b	SRI Promotion	acres	359 acres with 1267 farmers	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 in 359 acres of land with 1267 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)	588	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.
a	Training on inputs identification, tank and fish managements, linking with the inputs suppliers, feed preparation,	Farmers (No)	628	Practical demonstration of fish feed preparation by the para-professionals, exposure visit on aerator demonstration and market survey
b	Outscaling Carp prawn mix culture	Farmers (No)	280	Farmers are preparing home made balanced fish feed and applying the same. Aquaculture programme implemented 280 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 KMno4
a	IEC material for Paraprofessionals	No	4	Training material prepared for Paraprofessionals on off-season Veg. cultivation, scaffolding, aquaculture & SRI
2	Education			
a	School Infrastructure Support	No	6	Construction of field, pathway, tubewell in Mohisgote primary school and Mohishote SSK. Wooden dual desk & Table has given to Dhulagarh Adarsha School, Sankrail Girls school, Sankrail abhay Charan school and Kanduah primary school. Construction of flooring with tiles fixing in Dhulagarh Adarsha High school.
b	Education support / Events / Sports	No	12	12 no differnet type cultural and sports events organized in collaboration with local clubs



3	Health & Sanitation			
a	No. of STD work place clinics	Days	129	It is a regular clinic with cement plant which gives benefits to the contract labourers, truckers and helpers at workplace. In the current year such camps held 6 days/week.
b	Sanitation programme awareness, motivation & IEC - CLTS	No	45	45 no Sanitation awareness programme with rally held in core villages for making Open Defecation Free village.
c	Toilet construction support individual	No	706	706 no toilet blocks completed at Mohisgote, Chaturbhujkati, Kanduah and Bhagabatipur village
4	HIV/AIDS HCC PROJECT			
a	IPC (Target group covered)	No	7210	7210 truckers & allied covered in IPC / group session.
b	No. of STI clinics	No	140	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. 2111 truckers treated at HCC.
c	Street Play	No	3	Street play held in the important transit points to raise awareness on HIV/AIDS among the public
d	Magic Show / Puppet show	No	4	Magic & 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	4	HCC performance and vision project

*Compliance of Environmental Clearance Conditions for Ambuja Cements Grinding Unit of Capacity 2.4 MTPA at Village Jala Dhulagori, Tehsil Sankrail, District Howrah in West Bengal*

*(Period: October-2017-March-2018)*

j	Counseling Session	No	1957	Counselling services provided to 1957 no of truckers & helpers.
l	Social Marketing Codom	No	15300	15300 no of condom distributed through social marketing channel.
m	Satelite Clinic	No	24	24 no of satellite clinic held in various transit point which covered 673 patients
5	Rural Infrastructure / community assets creation			
a	Road /Guard wall Construction	m	1950	Constrauction of 1950 m Concrete road at Dhulagarh, Chaturbhujkati & Bhagabatipur village completed. Guardwall - 254 m constructed in Dhulagarh village
b	Installation of Tube well & Repairing	No	7	7 No of tubewells sinked Kandua GP (3), Dhulagarh (4) Gram panchayat
6	Women Empowerment Programme			
a	New SHG formation	No	18	18 No new SHG formed. ACF Sankrail is working with 69 women SHG involving 804 members.
b	Capacity Building/ Exposure /IWD	No	48	42 No training and 6 no exposure visit held with SHG members. 17 Group Management trainings, 12 Book keeping trainings, 5 Leadership development trainings, 3 loan Management trainings and 3 financial Literacy trainings and 2 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	33	33 no meet held for new group formation and also various Social Issues/Safety Awareness.
b	Support for IGA & Marketing	No	114	Four No of IGA like Agriculture and alied (Livestock, bird, fish), small vending, Tailoring, Zari etc adopted by 114 members during the period. Preparation of IGA plan for individual SHG is under progress. Plan has been prepared for 235

				members.
7	Skill Entrepreneurship Development Institute			
a	Nos of students trained	No	303	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 347 candidates in various trades like Retail Management, Beautician ,Mobile Repairing ,Basic Electrical,2/3 Wheeler Repairing , Customer Support Executive and Smart Sewing Machine Operator courses
b	No. of students placed	No	177	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
8	Stakeholder Engagement Events			
b	Community Engagement events	No	3	3 events held (Skill conclave & 2 nos Community Advisory Panel)



*Compliance of Environmental Clearance Conditions for Ambuja Cements Grinding Unit of Capacity 2.4 MTPA at Village Jala Dhulagori, Tehsil Sankrail, District Howrah in West Bengal*

*(Period: October-2017-March-2018)*

c	Safety Awareness Programme	No	69	69 No 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.
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EXPENDITURE DETAILS OCT'17 TO MAR'18		
AMBUJA CEMENT FOUNDATION - SANKRAIL		
Sr. No	Programme / Activities	Expenses Rs. In Lakhs
		Oct'17 to Mar'18
1	Agro-Based Livelihood	17.4
2	Health & Sanitation	18.02
3	Women Empowerment & CB Events	2.34
4	Rural Infrastructure Development	36.66
5	SEDI	82.94
6	Establishment	21.45
Grand Total		178.81

### Activities of ACF



**Fig. 13 Aerator machine Installed for Pond Deepening**



**Fig. 14 Goat Rearing Activity**



**Fig. 15 SRI field: use of weeder machine**



**Fig.16 Sabuj Biplab Farmer's Club**



**Fig 17 Safety Training for SEDI students**



**Fig. 18 Scaffolding Training**



**Fig.19 Ergonomics Workshop for Women**



**Fig.20 Leadership Development Programme**