Ambuja Cement

ACL/SK/ENV/10-18/253

Date: 11.10.2018

The Ministry of Environment, Forest & Climate Change,

Eastern Regional Office, A/3, Chandrasekharpur, Bhubaneshwar-751023 Orissa

Kind Attention: Dr. A. K. Gupta Jt. Director(S)

Sub: Six Monthly Compliance Report towards Environment Clearance dated 23.06.2011 for the period April-2018 to September-2018

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 April-2018 to September-2018.

Thanking you, Yours faithfully,

For Ambuja Cements Ltd.

Unit: Sankrail

(Arun Kumar Jha)

Sr. Vice President & Unit Head

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 Ltd.

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

Date: 23rd June 2011

A	Specific Condition						
	Condition	Status of Compliance					
i	Particulate emissions shall be controlled within 50 mg/Nm3 by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB regularly	As per MoEF & CC Notification dated 10 th May 2016, particulate matter emission is maintained below 30 mg/Nm3 in all the stacks by installing Bag house in Roller Press & Bag Filter in all remaining stacks. Minimum – 0.2 mg / Nm³, Maximum – 27.5 mg / Nm³ 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 th November, 2009 should be followed	Ambient Air Quality data is being monitored as per the National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 and the same is being 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 However, secondary fugitive emissions from all the sources are being controlled within the latest permissible limits issued by the Ministry and regularly monitored. Monitored fugitive emission data is provided in Annexure III					
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 Bag Filters throughout the plant for dust collection and extraction system to control fugitive dust emissions at various transfer points (i.e. unloading, conveying, transporting, stacking), bagging and packing areas. 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 6)					
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.	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					





-15	around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO	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
X	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 Green belt shall be developed in at least 33% area in and	pollution control devices are recycled and reused in the process used for cement manufacturing. Used grease (3.23 MT) & Waste Oil (8.66 MT) is sold to authorized recyclers / re-processors only for financial year 2017-2018. Batteries are recycled under buy-back scheme by the suppliers. Out of the total existing plant area i.e. 18.36 ha, 4.78 ha
ix	the maximum water requirement. Only balance water requirement shall be met from other sources All the bag filter dust, raw meal dust, coal dust, clinker dust	the roof of Packing Plant with an area of 7500 sq mtr is in progress. All the bag filter dust, clinker dust and cement dust from
viii	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet	water is generated. Roof top rain water harvesting on roofs of the colony quarters is prepared. Rain water harvesting provision at
vii	Total ground water requirement shall not exceed 270 m³/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 m³/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. P0609002010740000001TLE dt. 21.06.2011 & P0609002019630000001TSE dt. 13/02/2012 for 180 m³/day & 90 m³/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 9 & 11). Cement grinding process is a dry process hence no waste
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 10) Fly-ash is transported through closed bulkers only and over loaded quantity is not allowed. (Figure 6). Vehicular Emission is regularly monitored through checking of vehicle Pollution Certificate under PUC norms
	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 Board in this regard	yard, roads etc. Photograph of water sprinkler arrangement is provided in Figure 9. Pedestrian Pathway (Figure 7) inside the factory premises are constructed to ensure safe vehicular movement beside concreted road (Figure 8). AAQ is being monitored as per directions issued by MoEF and CPCB. AAQ is being maintained well below the prescribed limit. Monitored AAQ data is provided in Annexure II



		as per guidelines. Tree density is 1179 No./acre [estimated by Quick Field method] and survival rate is 98%. Around 600 saplings of different plants varieties [eg. Neem, Akashvani, Mahogony, Arjun, Chatim and Kadam] are planted at different locations in the plant premises in this tenure of April-September. Some of photographs of plantation attached in <i>Annexure-XI</i>
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 the period from April-2018-September-2018, we have incurred Rs.1,21,73,011/- towards CSR. Details attached in <i>Annexure XI-A</i> .
B i	General Condition The project authorities must strictly adhere to the	Noted and complied
	stipulations made by the West Bengal Pollution Control Board and the State Government	roted and complica
Ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests	Noted and being complied.
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 ₂ and NO _x 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] measured by third party [along with NO _x and SO ₂] 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 form 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. The STP water quality analysis report is included in Annexure-VI. (Figure 9 & 11 of Annexure-IX).
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	The overall noise levels are monitored in and around the plant area and are within the prescribed limits. Ambient Noise monitoring is carried out at 6 designated locations in & around the plant and are within limits. Proper noise





	ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime)	control measures are used in plant area and PPE are used for more than five minutes exposure of high noise. The results of Ambient Noise Monitoring is enclosed in Annexure-VII				
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 is done once every year covering Test of Blood, Ur ine, 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 Systematic Rice Intensification (SRI) cultivation by Ambuja Cement Foundation is 415577 m³ for this tenure.				
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 and complied. Photographs along with detailed activities are attached in <i>Annexure XI(A)</i>				
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	measures, incurred during the period of April-Septem is Rs.846288 towards Bag filter maintenance. The details are enclosed in <i>Annexure-VIII</i>				
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 ₂ , NOx (ambient levels as well as stack emissions) or	Online AAQM has been installed. This has been started from the month of April 2012. Data has been uploaded on website. The critical parameters are displayed on the main gate of the company. SO ₂ , NOx data of Ambient measured by third party are attached in <i>Annexure-II</i>				





	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	
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 and complied
xiv	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail	The Form-V for the year ended 31st March 2018 has been submitted to West Bengal Pollution Control Board on 25/09/2018. Attached photocopy of the same as Annexure-IX. It has been uploaded in website also.
xv	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. 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 th June 2011 are enclosed in <i>Annexure X</i>
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 Emission Data





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TEST REPORT

-	P-FG/18-19/53A		Date: April 18, 2018			Page 1 o		
issued to : M/S. AMBL		JA CEMENTS LIMITED. (U	JNIT - SANKR	AIL).				
_	fress		8 P.O. Dhulagori, P.S. Sankrait, D.			lest Bandal, India.		
Sam	ple Description	: Stock Gas		T		and the same of th		
Date & time of sampling : 18.04.		: 18.04.2018 at	02:20 P.M.	Test Complete	ed on - 18 04 2	018		
A.	General information abou			To continue	to on . 10.04.2	1110		
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						
B.	Physical characteristics of	of stack :	position of money , 1 co	_				
1.	Height of the stack		d level : 71.5 M	0.75				
2.	Diameter of the stack		: •••	PART TO STATE OF STAT	from roof level :			
3.	Diameter of the stack at sar		: (b) at top : 1.5 M					
4.	No. of Traverse point	apring point	. 12 Nos.					
	Height of the sampling poir	of from CI	: 36.0 M					
	Analysis / Characteristic		: 36.0 M	-				
	Fuel used Nil	JI STACK ;	-					
	Results of sampling & and	duele of ourse	ne enderter :	2. Fuel consun				
I No	Test Parameters	arysis of gaseo		Barometrie pro	essare: 752 mi	mHg		
	The state of the s		Test Method	Unit	Results	Norms		
1	Temperature of emission	4	IS 11255 : Part 3 : 1985	*C	84	ns per CPC N.A		
2.	Velocity of gas in duct		IS 11255 : Part 3 : 1985	m/sec	7.91	N.A		
3.	Quantity of gas flow		IS 11255 : Part 3 : 1985	NM ³ /hr	41440	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. E.	Particulate Matters Pullution control device		IS 11255 Part 1: 1985	mg/Nm ³	16	30 max.		

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



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



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TEST REPORT

	P-FG/17-18/277		Date: August 08, 2018			Page 1 c	
Issued to : M/S. AMB		: M/S. AMBU	BUJA CEMENTS LIMITED. (UNIT - SANKRAIL)				
Ad	dress	: Jalashulagori, Vi	ll & P.O. Dhulagori, P.S. Sankrall, D	ist. Howmh, Senkra	l. Pin : 711302. W	lest Recytal India	
Your Ref. SAPP		SAP PO NoPlan	1 280070 (957/14E13 Aud. 02.05.201)	8	111111111111111111111111111111111111111	on uniday nate	
Sur	mple Description	: Stack Gas					
Da	te & time of sampling	: 01.08.2018 a	12:00 P.M.	Test Complete	ed en : 04 00 c	m.t.n	
A.	General information about		ed oil . 04.0a.2	010			
1.	Stack connected to		: Cement Mill No1 (Hop	ner Y			
2.	Emission due to		: Material Transferring	, ,			
3.	Material of construction of a	trick	: M.S				
4.	Shape of stack		: Circular				
5.	Whether stack is provided w	ith permanent					
B.	Physical characteristics of	stack:	to induct , Tes				
1.	22/22/2010 Park (1997) Park (1997)		d level : 30.0 M	(h) from mof	Control Control		
2.		n) at bottom	t and	(b) from roof level : (b) at top: 0.60 M			
3.	Dimmeter of the stack at sam		10.60 M				
4.	No. of Traverse point		: 8 Nos.				
5.	Height of the sampling point	from GL	: 22.2 M				
C.	Analysis / Characterístic o			_	_		
1.	Fuel used : Nil			2. Fuel consum			
D.	Results of sampling & anal	ysis of gaseo	us emission :	Barometric pre			
il No	Test Parameters		1 est Methad	Unit	Results	Norms as per CPC	
2.	Temperature of emission		IS 11255 : Part 3 : 1985	°C	38	N.A	
3.	Velocity of gas in duct		IS 11255 : Part 3 : 1985	m/sec	19.14	N.A	
4	Quantity of gas flow Carbon monoxide		IS 11255 : Part 3 : 1985	NM3/hr	18341	N.A	
5.	Carbon dioxide		APHA - ORSAT	% v/v	<0.2	N.A	
6.	Particulate Matters		APHA - ORSAT	% v/v	0.2	N.A	
and the last of	Pollution control device		18 11255 : Part 1 : 1985	mg/Nm²	22	30 max.	

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







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TEST REPORT

-	P-FG/18-19/50A		Date: April 18, 2018			Page 1 o		
1000	ued to	: M/S. AMBU	JA CEMENTS LIMITED. (I	UNIT - SANKR	AIL).			
Add	dress					lest Booral torka		
San	nple Description	: Stack: Gas		Sankrad, Dirt. Howrsh, Sankrad, Pri : 711302, We Test Completed on : 18.04.20 -1 (Mill Venting)				
Dat	Date & time of sampling : 18.04.201: General information about stack : Stack connected to Emission due to Material of construction of stack		L11:15 A.M.	Test Complete	Completed on 18 04 2018			
A.	General information about	out stack :		- San Sangaran	THE COLUMN TWO IS NOT THE	010		
1.	Stack connected to		: Cement Mill No! (Mill	Ventino 1				
2.			: Cement Grinding	· · · · · · · · · · · · · · · · · · ·				
3.	Material of construction of	of stack	: M.S					
4.	Shape of stack		: Circular					
5.	Whether stack is provided	with permanent						
В.	Physical characteristics	of stack :	protection in protect , 1 cs		_			
1.	Height of the stack	The second secon	d level : 32.0 M	(b) from roof				
2.	Diameter of the stack (a) at bottom		:	5 M				
3.	Diameter of the stack at s	41.00	: 1.05 M					
4.	No. of Traverse point	amping Print	: 12 Nos.					
5.	Height of the sampling po	int from GI.	: 22.6 M					
C.	Analysis / Characteristic		122.0.81					
1.	Fuel used : Nil	of other.			Val-ratio			
D.	Results of sampling & a	nalysis of passo	tic amiceian :	2. Fuel consumption : Nil				
SI No	Test Parameters	many and or gradeo	Test Method	Barometric pro	The second second second second			
			Test metadu	Onte	Results	Norms as per CPC		
2.	Temperature of emission		IS 11255 : Part 3 : 1985	"C	68	N.A		
3.	Velocity of gas in duct Quantity of gas flow		IS 11255 : Part 3 : 1985	m/sec	4.55	N.A		
4.	Carbon monoxide		IS 11255 : Part 3 : 1983	NM³/hr	12233	N.A.		
5.	Carbon dioxide		APHA - ORSAT	% v/v	<0.2	N.A.		
6.	Particulate Matters		APHA - ORSAT	% v/v	0.3	N.A		
	Poliution control device		IS 11255 : Part 1 : 1985	mg/Nm³	11	30 max.		

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-FG/18-19/51A		Date: April 18, 2018	Page 1 of 1				
1100			JA CEMENTS LIMITED. (
	Sample Description : Sta		ntlagori, Vilf & P.O. Dhulagori, P.S. Sankrall, Dist. Howrah, Sprikrall, Pin : 711302, We				
			t 11;50 A.M.	Test Complete	d on: 18.04.2	810	
A.		ut stack;					
I.	Stack connected to		: Cement Mill No2 (OSE	PA)			
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.	Physical characteristics		all sections of the section of the s				
1.	Height of the stack	(a) from groun	d level: 32.0 M	(b) from roof	evel :		
2.	Diameter of the stack (a) at bottom		Tree				
3.	Diameter of the stack at sar		: (b) at top : 1.05 M				
4.	No. of Traverse point		: 12 Nos.				
5.	Height of the sampling point	nt from GL	: 22.6 M				
Ç.	Analysis / Characteristic						
1.	Fuel used : Nil			2. Fuel consum	antina : XIII		
D.	Results of sampling & an	alysis of gaseo	us emission :	Barometric pre	Control of the Contro	w.M.o.	
SI No	Test Parameters		Test Method	Unit	Results	Norms as per CPC	
1.	Temperature of emission		IS 11255 : Part 3 : 1985	"C	89	N.A	
2.	Velocity of gas in duct		IS 11255 : Part 3 : 1985	m/sec	9,63	N.A	
3.	Quantity of gas flow Carbon monoxide		IS 11255 : Part 3 : 1985	NM³/hr	24383	N.A	
5	Carbon monoxide Carbon dioxide		APHA - ORSAT	% v/v	<0.2	N.A	
6.	Particulate Matters		APHA - ORSAT	96 v/v	0.3	N.A	
	Pollution control device		IS 11255 : Part 1 : 1985	ing/Nim²	1.5	30 max.	

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TEST REPORT

No. A	P-FG/17-18/278		Date: August 06, 2018			Page 1 of	
Issued to : M/S. AMBUJ		JA CEMENTS LIMITED. (U	NIT - SANKR	AIL)			
Add	dress	aladhulagori, Vi	il & P.O. Dhutagori, P.S. Sankrall, Dis	t Howari, Sankrali	Pin: 711302 W	lest Regnal, India	
You Ref. :SAPPO NoPlant		t 280070 1965/NET3 Jul. 02.05.2018		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ear surriging mark		
San		Stack Gas					
Date & time of sampling : 01.08.2018 at			102:20 P.M	Test Complete	d on a 04 09 2	ote	
A.	General information about s	and the second s		resi compiete	d cii . 04.06,2	010	
1.	Stack connected to		: Cement Mill No2 (Hoppe	r)			
2.	Emission due to		: Material Transferring	,			
3.	Material of construction of str	ick	M.S				
4.	Shape of stack		: Circular				
5.	Whether stack is provided wit	h permanent	The second second				
B.	Physical characteristics of s	tack:	paracetri de ladder 1 es			_	
1.			d level : 30.0 M	(h) from roof!	accel a		
2,) at bottom	:	(b) from roof level: (b) at top: 0.60 M			
3.	Diameter of the stack at samp	W 1171 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.60 M	(b) at top : 0.6	U.M.		
4.	No. of Traverse point		: 8 Nos.				
5.	Height of the sampling point f	rom GL	: 22.2 M				
C.	Analysis / Characteristic of		- Add (1)				
1.	Fuel used : Nil	stoch .		2 F-1			
D.	Results of sampling & analy	sis of mason	us amission :	2. Fuel consum			
St No	Test Parameters	ole el gasco	Test Method	Barometric pro	Results	Norms	
				Care	Results	as per CPCI	
1.	Temperature of emission		IS 11255 : Part 3 : 1985	°C	35	N.A	
2.	Velocity of gas in duct		IS 11255 : Part 3 : 1985	m/sec	19.31	N.A	
3.	Quantity of gas flow		IS 11255 : Part 3 : 1985	NM ² /hr	18757	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. E.	Particulate Matters Pollution control device		1S 11255 : Part 1 : 1985	mg/Nm ³	18	30 max.	

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-FG/18-19/54A			Date: April 18, 2018					
		: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL).						
Add	iress		I & P.O. Dhulagori, P.S. San				est Bengal, India.	
Sample Description		: Stack Gas						
Date	e & time of sampling	: 18.04.2018 a	05:20 P.M.		Test Complete	d on : 18.04.2	018	
Α.	General information abou	ut stack :				1,000,000	-	
1.	Stack connected to		: Cement Mill No2 (Mill V	enting)			
2.	Emission due to		: Cement Grinding					
3.	Material of construction of	stack	: M.S					
4.	Shape of stack	: Circular						
5.	Whether stack is provided	d with permanent platform & ladder: Yes						
B.	Physical characteristics		Partition in the land of the land					
1.	Height of the stack		d level: 32.0 M		(b) from roof l	aval		
2.	Diameter of the stack	(a) at bottom	1		(b) at top: 1.05 M			
3.	Dinmeter of the stack at sm	The state of the s	: 1.05 M		(1)			
4.	No. of Traverse point		: 12 Nos.					
5.	Height of the sampling poi	nt from GL	: 22.6 M					
	Analysis / Characteristic		1 312.00 111	_				
	Fuel used : Nil				2. Fuel consum	intion - Mil		
D.	Results of sampling & an	alysis of gaseo	us emission :		Barometrio pre		mHe	
SI No	Test Parameters		Test Meth		Unit	Results	Norms as per CPC	
Lap	Temperature of emission		IS 11255 : Part 3 :	1985	°C	88	N.A	
2.	Velocity of gas in duct		IS 11255 : Part 3 :	1985	m/sec	7.77	N.A	
3.	Quantity of gas flow		IS 11255 : Part 3 :	1985	NM³/hr	19784	N.A	
4	Carbon monoxide		APHA - ORSA	T	% v/v	< 0.2	N.A	
5.	Carbon dioxide		APHA - ORSA	T	96 v/v	6.4	N.A	
6. E.	Particulate Matters Pollution control device		IS 11255 ; Part 1 :	1985	mg/Nm3	27	30 max.	

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TEST REPORT

_	P-FG/17-18/271		Date: August 06, 2018			Page 1 of	
750			BUJA CEMENTS LIMITED. (UNIT - SANKRAIL)				
Address Jahachulagori,		VIII & P.O. Dhulagori, P.S. Sankrall, Dist. Howrah, Saxbrall, Pin : 711302, West Bengal, India.					
You	Your Ref. SAP PO No/Plan Sample Description : Stack: Gas Date & time of sampling : 31.07.2018 at		s 2500704967/NE13 aid. 02:05:2012			THE PERSON NAMED IN	
San							
Dat			102:15 P.M.	Test Complete	ed on - 04 08 2	018	
A.	General information ab			The South	0.011.04.00.2	1010	
1.	Stack connected to		: Packer - 1				
2.	Emission due to		: Cement Packing				
3.	Material of construction	of stack	: M.S				
4.			: Circular				
5.	Whether stack is provide	d with permanent					
В.	Physical characteristics	of stack :	pariting of mader , res				
1.	Height of the stack	THE RESERVE OF THE PARTY OF THE	d level : 30.0 M	(h) Commerce	become a		
2.	Diameter of the stack	(a) at bottom	:	(b) from roof level: (b) at top: 1.0 M			
3.	Diameter of the stack at s	A CONTRACTOR OF THE PROPERTY O	: 1.0 M				
4.	No. of Traverse point	- Spoul	: 12 Nos.				
5.	Height of the sampling p	oint from GI	: 21.0 M				
C.	Analysis / Characteristi		1 61.0 M				
1.	Fuel used : Nit	and States					
D.	Results of sampling & a	nalysis of mason	ne omiceion :	2. Fuel consum			
SINo	Test Parameters	and a flaster	Test Method	Barometric pro	Results		
				Can	Results	Norms as per CPC	
1.	Temperature of emission		IS 11255 : Part 3 : 1985	°C	35	N.A.	
3.	Velocity of gas in duct Quantity of gas flow		IS 11255 : Port 3 : 1985	m/sec	12.93	N.A	
4.	Carbon monoxide		IS 11255 : Part 3 : 1985	NM ³ /hr	34863	N.A	
5.	Carbon monoxide		APHA - ORSAT	% v/v	<0.2	N.A	
6.	Particulate Matters		APHA - ORSAT	16 4/4	0.4	N.A.	
-	Pollution control device		IS 11255 : Part 1 : 1985	mg/Nm ³	19	30 max.	

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TEST REPORT

No. AP-FG/17-18/272			Date: August 06, 2018				
10000	aed to	: M/S. AMBU	IJA CEMENTS LIMITED. (U	NIT - SANKRA	AIL)		
Add	iress	Jaindhulagori, V	Vill & P.O. Dhulegori, P.S. Senkrall, Clist. Howrah, Sankrall, Fin : 711302, West Bengal, India.				
You	ir Ref.	SAP PO No/Plus	ir 2000704967/NE13 dcd. 02.05.2018				
San	ople Description	: Stack Gas		1			
Date	e & time of sampling	:31.07,2018 a	r 93:10 P.M.	Test Complete	d on : 04.03.2	018	
A.	General information abo	out stack :		, ,			
1.	Stack connected to		: Packer - 2				
2	Emission due to		: Cement Packing				
3.	Material of construction of	of stack	:M.S				
4.	Shape of stack		: Circular.				
5.	Whether stack is provided	with permanent	platform & ladder: Yes				
В.	Physical characteristics		100000000000000000000000000000000000000				
1.	Height of the stack		id level : 30.0 M	(b) from roof l	ovel		
2.	Diameter of the stack	(a) at bottom	1	(b) at top : 1.0			
3.	Diameter of the stack at a	ampling point	: 1.0 M	Co) at top 1 the	376		
	No. of Traverse point	DARKE SEE THE PERSON OF	: 12 Nos.				
	Height of the sampling po	int from GL	:21.0 M				
C.	Analysis / Characteristic						
1.	Fuel used : Nil			2. Fuel consum	untion - NII		
D.	Results of sampling & a	nalysis of gased	ous emission :	us emission : Barometric pressure : 748 mm			
Sl No	Test Parameters		Test Method	Unit	Results	Norms as per CPC	
1.	Temperature of emission		IS 11253 : Part 3 : 1985	°C	36	N.A	
2.	Velocity of gas in duct		IS 11255 : Part 3 : 1985	m/sec	15.11	N.A	
3.	Quantity of gas flow		IS 11255 : Part 3 : 1985	NM³/hr	40614	N.A	
5.	Carbon monoxide Carbon dioxide		APHA - ORSAT	% v/v	<0.2	N.A	
6.	Particulate Matters		APHA - ORSAT	96 v/v	0.3	N.A	
almost a little	Pollution control device		IS 11255 : Part 1 : 1985	mg/Nm ³	15	30 mm.	

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-FG/17-18/274			Date: August 06, 2018	Page 1 of			
Iss	ued to	: M/S, AMBU	JA CEMENTS LIMITED. (U	NIT - SANKR	All.)		
Add	dress		II & P.O. Dhulagori, P.S. Sankrail, Dis			est Baonal India	
You	ur Ref.	: SAP PO No/Play	t 2800704967/NE13 dtd. 02.05.2015			on brigge, sizes.	
San	nple Description	: Stack: Gas					
Dat	e & time of sampling	: 31.07.2018 a	r 04:30 P.M.	Test Complete	1 0 4 110 2	0.10	
Α.	General Information abo		17.70 1.01	1 est Compicu	od on : 04.08.2	018	
1.	Stack connected to	3133433	: Packer - 3 (Auxiliary)				
2	Emission due to		: Cement Packing				
3.	Material of construction of	Estack	: M.S				
4	Shape of stack		: Circular.				
5.		with permanent	platform & ladder : Sample wa	who form	.2.		
В.	Physical characteristics	of stack :	praction to tabuler . Sample wa	s taken from 10	or top.		
L	Height of the stack		d level : 36.5 M	A) 6			
2.	Diameter of the stack	(a) at bottom	:	Carl St. Cold Law and Article	(b) from roof level : (b) at top : 0.85 M		
3.	Diameter of the stack at sa		: 0.85 M	(b) at top : 0.85 M			
4.	No. of Traverse point	- Post	: 12 Nos.				
5.	Height of the sampling po	int from GI	: 34.5 M				
C.	Analysis / Characteristic		. 54.5 M				
L	Fuel used : Nil	or states.		20.1	4 232		
D.	Results of sampling & ar	alvsis of pasen	us emicsion :	2. Fuel consum			
SI No	Test Parameters	my or gaseo	Test Method	Barometric pro	Results	- Committee of the Comm	
				Cant	Results	Norms as per CPC	
1.	Temperature of emission		IS 11255 : Part 3 : 1985	°C	37	N.A	
3.	Velocity of gas in duct Quantity of gas flow		* IS 11255 : Part 3 : 1985	m/sec	9.81	N.A	
4.	Carbon monoxide		15 11255 : Part 3 : 1985	NM³/hr	18990	N.A	
5.	Carbon dioxide		APHA - ORSAT	% v/v	<0.2	N.A	
6.	Particulate Matters		APHA - ORSAT	% v/v	0.4	N.A	
E.	Pollution control device		IS 11255 : Part 1 : 1985	mg/Nm ³	12	30 mex.	

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TEST REPORT

No. A	P-FG/17-18/273	Date: August 06, 2018				Page 1 of		
-	ued to	; M/S. AMBU	JA CEMENTS LIMITED. (I	JNIT - SANKR	AIL)			
Add	dress	: Jotochulagori, W	Inchulagori, Vill & P.O. Dhulagori, P.S. Sankrall, Dist. Howrah, Sankrall, Fin : 711302, West Bengal, India.					
You	ur Ref.		rt 2800704967/NEL3 dtd. 02.05.2011					
San	nple Description	: Stack Gas						
Dat	e & time of sampling	: 31.07.2018 a	t 03:50 P.M.	Test Complete	of on - 0.1 os 2	nie		
A.	General information abo			Trest Compiler	M CH : CHIOCA	010		
1.	Stack connected to		: Packer - 3					
2.	Emission due to		: Cement Packing					
3.	Material of construction of	fstack	: M.S					
4	Shape of stack		: Circular					
5.	Whether stack is provided	with permanent	platform & ladder : Sample w	or taken from a	often.			
В.	Physical characteristics	оттор.						
I.	Height of the stack	THE RESERVE OF THE PERSON NAMED IN	d level : 36.5 M	(b) from roof	and -			
2.	Diameter of the stack	(a) at bottom	;	(b) at top : 1.1				
3.	Diameter of the stack at sa		: 1.1 M	(0) at top : 1.1	141			
4.	No. of Traverse point	Chicago Rosses	: 12 Nos.					
5.	Height of the sampling poi	nt from GL	: 34.5 M					
C.	Analysis / Characteristic		1 5 1 5 1 11					
1	Fuel used : Nil	ar occurr.		2 Fuel sussess	continue with			
D.	Results of sampling & an	alvsis of paseo	us omission .	2. Fuel consum		11.		
St No	Test Parameters		Test Method	Barometric pro	Results	Norms as per CPC		
1.	Temperature of emission		IS 11255 : Part 3 : 1985	°C	36	N.A		
2.	Velocity of gas in duct		IS 11255 : Part 3 : 1985	m/sec	9.49	N.A		
4.	Quantity of gas flow		IS 11255 : Part 3 : 1985	NM ³ /hr	30865	N.A		
5	Carbon monoxide Carbon dioxide		APHA - ORSAT	% v/v	<0.2	N.A		
6.	Particulate Matters		APHA - ORSAT	96 v/v	0.3	N.A		
	Pollution control device		IS 11255 : Part 1 : 1985	mg/Nm ³	17	30 max.		

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TEST REPORT

	P-FG/17-18/276	Date: August 06, 2018		Page 1 of				
Iss	ued to : M/S. AME	BUJA CEMENTS LIMITED. (U	NIT - SANKR	AILY				
Ade	dress : Jaladisulagori	, Vill & P.O. Dhulagori, P.S. Sankrall, Dis	t. Howrah, Sarakrai	l Pin : 711302 W	fact Board India			
Yo	ur Ref. : SAP PO NoF	Tani 2800704967/NE13 doi: 02.05.2018	I	111111111111111111111111111111111111111	con conque, man.			
Saz	ople Description Stack Gas							
Dat	e & time of sampling : 01.08.2015	8 at 10:45 A.M.	Test Complete	d on : 01 00 2	1010			
A.	General information about stack :		Tress Complete	on : 04.06.2	uia			
1.	Stock connected to	: Packer - 4 (Auxiliary)						
2.	Emission due to	: Cement Packing						
3.	Material of construction of stack	: M.S						
4.	Shape of stuck	: Circular.						
5.	Whether stack is provided with permane							
В.	Physical characteristics of stack :							
1.		und level : 37.7 M	(b) from roof (N. V.				
2	Diameter of the stack (a) at bottom		(b) at top : 1.1					
3.	Diameter of the stack at sampling point		(a) at top : 1.1	M				
4.	No. of Traverse point	: 12 Nos.						
5.	Height of the sampling point from GL	: 35.5 M						
C.	Analysis / Characteristic of stack :	T Sector III						
1.	Fuel used : Nil		7 Fredrices					
D.	Results of sampling & analysis of gas	eous emission :	Fixel consumption : Nil Barometric pressure : 745 mmHg					
No.	Test Parameters	Test Method	Unit	Results	Norms as per CPC			
1.	Temperature of emission	15.11255 : Part 3 : 1985	°C	35	N.A			
2	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	9.80	N.A			
4.	Quantity of gas flow Carbon monoxide	18 11255 : Part 3 : 1985	NM3/hr	31841	N.A			
5.	Carbon monoxide	APHA - ORSAT	96 v/v	<0.2	N.A			
6.	Particulate Matters	APHA - ORSAT	96 v/v	0.4	N.A			
E.	Pollution control device	IS 11255 : Part 1 : 1985	mg/Nm³	- 11	30 max.			

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TEST REPORT

_	P-FG/17-18/275	Date: August 06, 2018						
100	ued to : M/S. A	MBUJA CEMENTS LIMITED. (JA CEMENTS LIMITED. (UNIT - SANKRAIL)					
Ad			st. Howrah, Sankrail, Pin : 711302, West Bengal, India.					
Yo	ur Ref : SAP PO)	lo/Plant 2:000704967/NE13 drd. 02:05:201	8		and and another			
Sar	uple Description : Stack (ins						
Das	te & time of sampling : 01.08.2	018 at 10:15 A.M.	Test Complete	ed an : 04 08 *	naie			
A.	General information about stack :		Total Compact		2010			
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 perma	ment platform & ladder : Yes						
B.	Physical characteristics of stack :							
1.		ground level: 37,7 M	(b) from roof	land.				
2,	Dismeter of the stack (a) at both		(b) at top : 1.1					
3.	Diameter of the stack at sampling point		(b) at top . 1.1	N)				
4,	No. of Traverse point	; 12 Nos.						
5	Height of the sampling point from GL	: 35.5 M						
C.	Analysis / Characteristic of stack:							
1.	Fuel used : Nil		2. Fuel consur	mation : NIII				
D.	Results of sampling & analysis of g	aseous emission :	Barometric pro		mHa			
il No	Test Parameters	Test Method	Unit	Results	Norms as per CPCI			
1.	Temperature of emission	IS 11255 : Part 3 : 1985	°C	36	N.A			
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985	m/sec	10.65	N.A			
4.	Quantity of gas flow Carbon monoxide	IS 11255 : Part 3 : 1985	NM³/hr	34487	N.A			
5	Carbon dioxide	APITA - ORSAT	% v/v	<0.2	N.A			
6.	Particulate Matters	APHA - ORSAT	96 v/v	0.3	N.A			
_	Pollution control device	IS 11255 : Part 1 : 1985	mg/Nm ³	20	30 max.			

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CIN: U51109W81931PTC007007

TEST REPORT

No. AP-FG/17-18/279		Date: August 06, 2018			Page 1 of	
Iss	ued to : M/S.	AMBUJA CEMENTS LIMITED. (L	UNIT - SANKR	All)	· age r o	
Add		lagori, VIII & P.O. Dhutagori, P.S. Sankrali, Di			aci Bancul India	
You	ur Ref. SAP PC	No/Phot 2890704967/NE13 dtd. 02.05.2011		icare release, in	car beingin, irxna.	
San	nple Description Stack					
Dat	e & time of sampling : 02.08	2018 at 03:20 P.M.	Test Complete	od on : 04.08.2	0.19	
A.	General Information about stack		Test Compica	ou on : 04.08.2	018	
1.	Stack connected to	: Wagon Tippler Chinney				
2	Emission due to	: Material transfer				
3.	Material of construction of stock	: M.S.				
4.	Shape of stack	: Circular				
5.	Whether stack is provided with pen	VF./30070000000000000000000000000000000000				
B.	Physical characteristics of stack	· ·			_	
1.		ground level ; 28.0 M (Approx)	(b) from roof	Lance Police		
2.	Diameter of the stack (a) at b					
3.	Diameter of the stack at sampling po	The state of the s	(b) at top: 2.1	9 M		
4.	No. of Traverse point	: 24 Nos.				
5.	Height of the sampling point from C					
C.	Analysis / Characteristic of stack					
1.	Fuel used : Nil	4	2.5.1			
D.	Results of sampling & analysis of	gaseous emission :	Fuel consumption : Nil Barometric pressure : 748 mmHg			
St No	Test Parameters	Test Method	Unit	Results	Norms	
1.	Temperature of emission	15.1157 5	-		as per CPC	
2.	Velocity of gas in duct	IS 11255 : Part 3 : 1985 IS 11255 : Part 3 : 1985	°C	37	N.A	
3.	Quantity of gas flow	15 11255 : Part 3 : 1985	nt/sec NM ³ /hr	11.02	N.A	
4.	Carbon monoxide	APHA - ORSAT	% v/v	<0.2	N.A N.A	
5.	Carbon dioxide	APHA - ORSAT	% v/v	0.2	N.A N.A	
6.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm³	16	30 max.	
	Pollution control device Details of pollution control devices		149		1 se mice	

J. MURHERJEE)
Qualify Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

★ The test report shall not be reproduced, except in full, without written approval of the Company.

* Results relate only to the parameters tested.





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, Fox: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

	P-FG/17-18/280		Date: August 06, 2018		Page 1 of 1		
	ued to		JJA CEMENTS LIMITED. (L				
1.544	dress	. Jefadhulagori, V	If & P.O. Dhulagori, P.S. Sankrall, Di	ist Howrah, Sankrai	l, Pin : 711302, W	est Bengal, India.	
Yo	or Ref.	SAP PO Nu/Plu	ua 2800704967/NE13 Jul. 02.05.2019	8			
San	nple Description	: Stack Gas		1			
Dat	to & time of sampling	: 02.08.2018 a	t 11:10 A.M.	Test Complete	ed on: 04.08.2	2018	
A.	General information ab	out stack :		7.55.55.55.55.55.55.55.55.55.55.55.55.55		ar tu	
1.	Stack connected to		: DG -1				
2	Emission due to		: Burning of Furnace Oil				
3.	Material of construction	of stuck	: M.S.				
4.	. Shape of stack		: Circular.				
5.	Whether stack is provide	d with permanent	The second secon				
6.	Generator capacity		: 6 MW				
B.	Physical characteristics	s of stack :					
1.	Height of the stack		d level : 60.0 M	(b) from roof	laced a		
2.	Diameter of the stack	(a) at bottom	:	(b) at top : 1.0			
3,	Diameter of the stack at s		:10M	(o) at top : 1.0	100		
4.	No. of Traverse point		: 12 Nos.				
5.	Height of the sampling pe	oint from GL	: 30.0 M				
C.	Analysis / Characteristi		120.0 11				
1.	Fuel used : Furnsce Oi			2 Fuel consum	nution : 11001		
D.	Results of sampling & a	nalysis of gaseo	us emission :	Fuel consumption: 1100 LL/hr. Barometric pressure: 746 mmHg.			
SI No	Test Parameters		Test Method	Unit	Results	Norms as per CPCB	
1.	Temperature of emission		IS 11255 : Part 3 : 1985	*c	231	N.A	
2.	Velocity of gas in duct		IS 11255 : Part 3 : 1985	m/sec	7.56	N.A	
3.	Quantity of gas flow		IS 11255 : Part 3 : 1985	NM ³ /hr	12428	N.A	
5.	Sulphur dioxide		CPCB (ER), 1985	mg/Nm ²	160.0	N.A	
6.	Nitrogen dioxide Carbon manoxide		ASTM D 1603	mg/Nm²	143.0	N.A	
7.	Carbon dioxide		APHA - ORSAT	96 v/v	<0.2	N.A	
8	Particulate Matters		APHA - ORSAT	% v/v	7.8	N.A	
-	Pullution control device		IS 11255 : Part 1 : 1985	mg/Nm ³	41	150 max.	







ANALYTICAL CONSULTING & TECHNICAL CHEMISTS **ESTABLISHED IN 1900**

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TAHER MANSION, 1ST FLOOR

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-FG/17-18/281			Date: August 06, 2018		Page 1 of				
Iss	ued to	: M/S. AMBU	JA CEMENTS LIMITED. (UNIT - SANKR	AfLY				
Add	dress		Machulagori, VII & P.O. Dhulagori, P.S. Sawanii, Diet. Howrah, Sankraii, Pin : 711302, West Bengal, India.						
You	ur Ref.	SAP PO No/Plan	12800704967/NE13 dtd. 02.05.201	8	17.112 - 17.00000 17	en benga, tibit.			
San	nple Description	: Stock Gas							
Dat	te & time of sampling	: 02.08.2018 at	12:15 P.M.	Test Complete	d an - 0.1 00 n	nie.			
A	General information about			Test complete	ag dil , 04,08,2	.010			
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		: biMW						
В.	Physical characteristics of	f stack ·	- Maria						
1.	Height of the stack	(a) from ground level : 60,0 M (b) from roof level :							
2	Diameter of the stack	(a) at bottom	: ···						
3.	Diameter of the stack at san		:1.0 M	(b) at top : 1.0	M				
4.	No. of Traverse point	dring boun	: 12 Nos.						
5.	Height of the sampling poin	t from GI	: 30.0 M						
C.	Analysis / Characteristic of		. 50.0 M						
1.	Fuel used : Furnace Oil	otation .		0 P. J.					
D.	Results of sampling & and	lysis of gaseo	us emission ·		Fuel consumption: 900 Lt./hr. Barometric pressure: 746 mmHg				
SI No	Test Parameters		Test Method	Unit	Results	Norms as per CPCI			
1.	Temperature of emission		IS 11255 : Part 3 : 1985	°C	217	N.A			
2.	Velocity of gas in duct		IS 11255 : Part 3 : 1985	m/sec	6.24	N.A.			
3.	Quantity of ges flow		18 11255 : Part 3 : 1985	NM ³ /hr	10552	N.A			
4.	Sulphur dioxide		CPCB (ER.), 1985	mg/Nm²	152.0	N.A			
5.	Nitrogen dioxide		ASTM D 1608	mg/Nm*	139.0	N.A			
7.	Carbon monoxide Carbon dioxide		APHA - ORSAT	% v/v	< 0.2	N.A.			
8.	Control of the Contro		APHA - ORSAT	% v/v	7.6	N.A			
0.4	Particulate Matters Pollution control device		IS 11255 : Part 1 : 1985	mg/Nm ²	39	150 max			

J. MURHERJEE) Quality Manager Authorised Signatory For R.V.BRIGGS & CO. (P) LTD.



Stack Emission Data for April-2018-Sept-2018 along with Stack details

Month	Unit	CM-1 Vent	CM-2 Vent	Roller Press	Packer-1	Packer-2	Packer-3 Main	Packer-4 Main	Wagon Loading	Standard
		Dia.:(m): 1.05 Height(m): 32	Dia.:(m): 1.05 Height(m): 32	Dia.:(m): 1.5 Height(m): 71.5	Dia.:(m): 1 Height(m): 30	Dia.:(m): 1 Height(m): 30	Dia.:(m): 1.1 Height(m): 36.5	Dia.:(m): 1.1 Height(m): 37.7	Dia.:(m): 2.1 Height(m): 28	
April		10.7	3.1	10.1	11.5	14.2	12.8	6.7	6.9	
May		11	6.65	9.6	11.75	14.25	12.7	6.5	6.55	
June	mg/Nm3	11.4	4.75	10.05	12.15	13.9	12.25	12.5	12.8	30 mg/Nm3
July		11.4	10.1	12.8	12.1	13.4	6.2	11.5	11.4	
Aug		9.05	2	10.7	11.9	6.8	12.35	12.5	12.7	
Sept		8.5	2.75	11.15	11.65	4.5	12.75	11.15	11	



Annexure-II Ambient Air Data

Annexure-II

Ambient Air Quality Monitoring Result (April-Sept-2018)

Sl. No	Station Name	PM-10 in µg/m3	PM-2.5 in µg/m3	SO2 in μg/m3	NO2 in μg/m3	CO in mg/m3
1	Near Contractor Room	45	27	4.9	37.5	1.23
2	Near RO Plant	41	25	5.1	34.3	1.21
3	Near Railway Gate	64	35	5.9	40.2	1.27
4	Near Main Gate	52	29	5.5	41	1.26
NAAQM standard		100	60	80	80	4





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. Fox: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com CIN: U51109W81931PTC007007

TEST REPORT

No. AP-AAQ/18-19/234

Date: August 06, 2013

Page I 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. Description of Sample

SAP PO No/Plant 2800710186/NE13 dtd. 02.06.2018

Ambient Air.

Location

Near Contractor's Room.

I : of Monitoring Analysis completed on

30.07.2018

05.08.2018

ENVIRONMENTAL CONDITION

(i) Barometric Pressure: 750 - 746 mmHg

(ii) Temperature: 32.0°C - 24.0°C

TEST FINDINGS :-

SI. No.	Test Parameters	Test method	Unit	Time weighted average (24hrs.)	Norms as per MOE & F Notification, New Delhi, 16 th November, 2009
1.	Particulate Matter (PM ₁₀), Size \leq 10 µm	1S 5182 (Part - 23): 2006 Reaffirmed 2012	µg/m³	45	100 (24 Hourly)
	Particulate Matter (PM _{2.5}), Size $\leq 2.5 \mu m$	USEPA 1997a,40 CFR Part 50, Appendix L.	μg/m³	27	60 (24 Hourly)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	μg/m ⁾	4.9	80 (24 Hourly)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006 1" Revision	μg/m³	37.5	80 (24 Hourly)
5.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	1.23	04 (1 Hourly)

(D. MUKHERJEE) Quality Manager

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

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/18-19/235

Date: August 06, 2018

Page 1 of 1

Issued to Address

M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL).

Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin: 711302, West Bengal, India.

Your Ref. No.

SAP PO No/Plant 2800710186/NE13 dtd. 02.06.2018

Description of Sample

Ambient Air.

Location

Near RO Plant.

1 : of Monitoring

30.07.2018

Analysis completed on

05.08.2018

ENVIRONMENTAL CONDITION

(i) Barometric Pressure: 750 - 746 mmHg (ii) Temperature: 32.0°C - 24.0°C

TEST FINDINGS :-

SL No.	Test Parameters	Test method	Unit	Results Time weighted average (24lirs.)	Norms as per MOE & F Notification, New Delhi, 16 th November, 2009
1.	Particulate Matter (PM ₁₀), Size ≤ 10µm	IS 5182 (Part – 23): 2006 Reaffirmed 2012	$\mu g/m^3$	41	100 (24 Hourly)
	Particulate Matter (PM _{2.5}), Size ≤ 2.5µm	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	25	60 (24 Hourly)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	μg/m³	5.1	80 (24 Hourly)
4.	Nitrogen Dioxide as NO ₂	lS 5182 (Part - 6): 2006 1" Revision	μg/m³	34.3	80 (24 Hourly)
5.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	1.21	04 (1 Hourly)

(J.MUKHERJEE) Quality Manager

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

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Ph.: 2248-3661/2698/7803, 2262-4153/4154, Fax: 33 2248-0447 E-mail: rvbriggs.kolkafa@gmail.com, Webste: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/18-19/236

Date: August 06, 2018

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. Description of Sample SAP PO No/Plant 2800710186/NE13 dtd. 02.06.2018 Ambient Air.

Location of Sample

Near Railway Gate.

e of Monitoring Analysis completed on 31.07.2018 05.08.2018

ENVIRONMENTAL CONDITION

(i) Barometric Pressure: 750 - 746 mmHg

(ii) Temperature: 32.0°C - 22.0°C

TEST FINDINGS :-

SL No.	Test Parameters	Test method	Unit	Time weighted average (24hrs.)	Norms as per MOE & F Notification, New Delhi, 16 th November, 2009
1.	Particulate Matter (PM ₁₀), Size $\leq 10 \mu m$	IS 5182 (Part - 23): 2006 Reaffirmed 2012	μg/m³	64	100 (24 Hourly)
10	Particulate Matter (PM _{2.5}), Size $\leq 2.5 \mu m$	USEPA 1997a,40 CFR Part 50, Appendix L.	μg/m³	35	60 (24 Hourly)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	μg/m³	5.9	80 (24 Hourly)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006 1 st Revision	$\mu g/m^3$	40.2	80 (24 Hourly)
5.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	1.27	04 (1 Hourly)

(J. MUKHERJEE) Quality Manager

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

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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.kolkota@gmail.com, Website: www.rvbriggs.com CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/18-19/237

Date: August 06, 2018

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,

Your Ref. No.

Pin: 711302, West Bengal, India. SAP PO No/Plant 2800710186/NE13 dtd. 02.06.2018

Description of Sample Location

Ambient Air.

e of Monitoring

Near Main Gate. 31.07.2018

Analysis completed on

05.08.2018

ENVIRONMENTAL CONDITION

((i) Barometric Pressure : 750 - 746 mmHg (ii) Temperature : 32.0°C - 22.0°C

TEST FINDINGS :-

SL No.	Test Parameters	Test method	Unit	Results Time weighted average (24hrs.)	Norms as per MOE & F Notification, New Delhi, 16 th November, 2009
1.	Particulate Matter (PM _{in}), Size ≤ 10μm	IS 5182 (Part - 23): 2006 Reaffirmed 2012	μg/m³	52	100 (24 Hourly)
	Particulate Matter (PM _{2.5}), Size \leq 2.5 μ m	USEPA 1997a,40 CFR Part 50, Appendix L.	μg/m ²	29	60 (24 Hourly)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	μg/m³	5.5	80 (24 Hourly)
4.	Nitrogen Dioxide as NO ₂	1S 5182 (Part - 6): 2006 1st Revision	h8/m ₃	41.0	80 (24 Hourly)
5.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	1.26	04 (1 Hourly)

(J.MEKHERJEE) Quality Manager

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

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Annexure-III Fugitive Emission Data

Annexure-III

Fugitive Emission Monitoring Data [μg/m3]					
Sr.		2nd Quarter of 2018	3rd Quarter of 2018 Total Particulate Matter		
No.	Location	Total Particulate Matter			
		microgram/m ³	microgram/m ³		
1	Near Hopper Bld.	1286.35	1228.66		
2	Near Roller Press Building	1826.28	1930.80		
3	B/h Clinker Silo	1827.35	1736.42		
4	Packer ground floor	4118.09	4339.27		
5	Near FA silo	3036.12	2990.41		
6	Near Wagon Tippler	2765.49	2844.44		



Annexure-IV & V Ground Water Permission

Annexure-IV

FORM 4

[See Rules 9(3) and 16(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 PO609002010740000001TLE

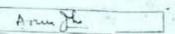
- 1 (a) Name of the applicant (user)
 - (b) Son/Daughter of
 - (c) Address of the applicant
 - (d) Category of farmer (Please tick) (in case of irrigation well)
 - (e) Senal No. of application Form and date of submission
 - (f) Specimen signature of the user
- 2. Location particulars
 - (a) District
 - (b) Block, Mouza, J. L. No., Plot No.
 - (c) Municipality/Corporation Ward No. / Borough No., Holding No.
- 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 dag well)
 - (g) Type of pump to be used
 - (h) H.P. of the pump
 - (i) Operational device
 - (j) Rate of withdrawal (m3/hr.)

Shri/Smi. AMBUSACEMENTS 27.D

DHOLHGORI, SANKRAIL

Small Fermer/Margica: Farmer/Others

BP/A, 0154, S.L.No. 1, 2-3-2011



HOWRAH SANKRAIL, SALA DHULAGICKL

N.A.

TUBBUELL

250 meter.

Industrial 200 mm.

30 111

SUBMER SIBLE

5.0 H.P

ELECTRIC MOTOR

(k) Maximum allowable trunning bours per day : EAS / eLoy
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 \$1. (3) (j) and for maning hours / day as shown at \$1. (3) (K), and is valid subject. to the observance of the conditions stated overleaf of West

Place. HOWRBH

21/6/2011 Date:

OFFICE SPACE W

Signature of the Issuing Antiberty

Member Secretary Howrah District

(1) Incase of any drongent ownership of the proposed well the first continued and developed the proposed will as the proposed will be the continued to the proposed will be the continued to the proposed will be made without prior permission of the Compount Authority. Any dependent plants or good shall be the concellation of the Permission of the Compount Authority. Any dependent of the proposed will be the concellation of the permission of t

(4) Any other condition arranged by the ten emed Authority

> OFFICE SEAL

B.C. L.74250,0000750



Annexure-V

FORM 4

1See Bules 9(3) and 10(5)1

STABLEM OF HOLOGRAM OF THE CONCERNED AUTHORITY

033739



PERMIT FOR SINKING OF NEW WELL

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

HEMIT NO POGO 900 201963 000 000 ITSE

- 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
- 2. Location particulars-
 - (a) District
 - (b) Block, Mouza, J. L. No., Flot No.
 - (c) Municipality/Corporation Ward No. / Borough No., Holding No.
- 3. Particulars of the proposed we'l 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(fordag well)
 - (g) Type of pumpto be used
 - (b) H.P. of the pump
 - (i) Operational device
 - (j) Rate of withdrawal (m2/lg.)

OFFICE

SMISSING M/S ANDUJA CEMENTS LTD.

Olulagari, Bankrail; Howrah Small Farmer/Marginal Farmer/Others

BF/ 0154; 81-3 dt 69

Howah Saukrail / Jaladlulagori /002 Plat - 1963

Puly Det!

250m Domestic

: 127 mm x 76 2mm

18

Submersielo

:3.5HP

· Electric Motory

(i) Rate of withdrawel (m2/br.)
(k) Maximum allowable running hours per day
(b) Maximum allowable running hours per day
(c) hour day
(day)
(This permit authorizes the owner applicant (user) to sight a well in the location specified at \$1, (2) for extraction of ground

water at a rate not exceeding that as shown at \$1. (3) (3) and for rating hours / day as shown at \$1. (3) (K), and is valid subject to the observance of the conditions stated overleaf.

Place Howark . Date: 18/2/19

Conditions:

SEA1

Chimney Koy StevenBeer digitations Authority and Designation Memberslearning

ondplores:

(1) In case of any change of a vaccular or the paramed well inchregistration has not exist an ext.

(2) No change of heartest, during a rate of with heart shad parament device in respect of the proposed well as indicating a \$\frac{1}{2}\$. Of each of the control of the foreign and the first parameters of the proposed well as indicating a \$\frac{1}{2}\$, the first parameters of the proposed well as indicating a \$\frac{1}{2}\$, the first parameters of the proposed well as indicating a \$\frac{1}{2}\$, the first parameters of the proposed well as indicating a \$\frac{1}{2}\$, the first parameters of the proposed well as indicating a \$\frac{1}{2}\$, the first parameters of the proposed well as indicating a \$\frac{1}{2}\$, the first parameters of the proposed well as indicating a \$\frac{1}{2}\$, the first parameters of the proposed well as indicating a \$\frac{1}{2}\$, the parameters of the proposed well as indicating a \$\frac{1}{2}\$, the parameters of the proposed well as indicating a \$\frac{1}{2}\$, the parameters of the proposed well as indicating a \$\frac{1}{2}\$, the parameters of the proposed well as indicating a \$\frac{1}{2}\$, the parameters of the proposed well as indicating a \$\frac{1}{2}\$, the parameters of the proposed well as indicating a \$\frac{1}{2}\$, the parameters of the proposed well as indicating a \$\frac{1}{2}\$, the parameters of the para In case, any of the particulars automation transferd by the applicant in his application for southees of this period in found to be incorrect during verification at any autoexpect stage. Inseparation lightly for concerned Automaty.
 Any other condition improved by the concerned Automaty.

It in occasioned itent mandatory occabings charactered in the Complex should the alone of sea C.L.A'SLIGHTY



Annexure-VI Effluent Water Analysis Report

Annexure-VI

Water Testing Report of STP outlet

April-Sept-2018

Sl. No	Test Parameters	Unit	Result	Standard GSR 422(E) dated 19 th May:1993
1	pH at 26 °C	-	7.37	5.5 to 9
2	Total Suspended Solids	mg/l	28	100
3	Biochemical Oxygen Demand (for 3 days at 27°C)	mg/l	9.2	30
4	Chemical Oxygen Demand	mg/l	40	250
5	Oil & Grease	mg/l	< 1.4	10



Annexure-VII Ambient Noise Monitoring Report

Annexure-VII

Ambient Noise Monitoring

SI.	Location							Noise le	evel d	B(A)									
No	Location	Unit	Ap	ril-18	Ma	ıy-18	Jui	ne-18	Ju	ly-18	At	Au	Au	ıg-18	Sept-18		Standard (dB(A		
			Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			
1	Near Main- Gate		60.5	50	60.5	48.5	60	50	61	48.5	58.5	48.5	62.5	50					
2	Near Admin Building		58	41.5	56.5	42.5	56	42.5	57	41.5	53	41	55.5	43					
3	ACL Colony	dB(A)	50	40	52	42	52.5	42	53	41	49.5	39.5	51	39					
4	Worker Canteen Area		59.5	50.5	59.5	50	59.5	51	58	50	61	50	60	52	75	70			
5	Near Stores		59	47.5	60	48.5	60.5	49.5	60	46.5	62	47.5	61.5	48.5					
6	Near Hopper Building		58.5	48.5	60	50.5	58.5	51	57	48.5	57.5	49.5	59.5	49.5		Sec. Lines and			



Annexure-VIII Bag-Filter Maintenance Cost

Annexure-VIII

Bag-Filter Maintenance(April-Sept-2018)

		Material Code-Wise Su	mmary				
SI. No	Item Code	Code Description		Service Cost (INR)	Materi al Cost (INR)	Total Materi al & Service Cost (INR)	
1	458000050 776			88452	320922	409374	
2	458000080 109	FILTER BAG;11B-PE-600-149- 3665;NM	72	5616	22104	27720	
3	458000080 115	FILTER BAG;11B-PE-600-150- 3660;NM	206	16068	63654	79722	
4	458000081 425	FILTERBAG;149X4565MM;PTFE; NORMAL	352	27456	302016	329472	
		TOTAL in INR	1764	137592	708696	846288	



Annexure-IX Form-V

Annexure-IX

Environment Statement

Ambuja Cement

ACL/SK/ENV/09-18/ 2 4/2 Date: 25.09.2018

To,
The West Bengal Pollution Control Board,
(Department of Environment, Govt. of West Bengal)
Howrah Regional Office,
Minority Bhawan, 5th Floor,
Near Alipore Police Court,
Kolkata: 700027

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

Sub: Environment Statement Report of M/s. Ambuja Cements Ltd (Unit: Sankrail) for the year 2017-2018

Sir,

Please find enclosed herewith duly filled Form-V (Rule-14), Environment Statement Report (2017-2018) for your kind perusal.

This is for your kind information and necessary records.

Thanking you, Yours faithfully,

For Ambuja Cements Ltd. Unit: Sankrail

(Arun Kumar Jha)

Arru

Sr. Vice President & Unit Head

AMBUJA CEMENTS LIMITED

Unit : Sankrail

Jaladhulagori, VIII. & P.O. : Dhulagori, P.S. : Sankrail, Dist. : Howath (W.B.) - 711302

Phone : 033 - 9606 7100 (4 Lines), Fax : 033 2679 8423

(Regional Off. : "INDICON VIVA", 6th Floor, SA, Leela Roy Sarani, Kolkata - 700 019, Phone : 033 - 4403 3900, Fax : 2461 7744 / 5413)

(Regional Off. : P.O. : Ambujanagar, Talaka : Kodinar District : Gir Somnath, Gujarat - 362715)

CIN Nos. L26942GJ1981 PLC004717, Wabsilis : www.ambujacement.com

UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2017-2018

FORM-"V" (See Rule 14)

Environmental Statement for the Financial Year Ending on 31st March 2018

PART A

1	Name & Address of the Owner/Occupier of the Industry		Shri , Arun Kumar Jha Sr, Vice President & Unit Head Village: Jaladhulagori, PO : Dhulagori, PS: Sankrail, Howrah-711302 Tel No. :- 033 6608 7100 Fax No. :- 033 2679 8423
11	Industry Category Primary- (STC Code) Secondary (STC Code)	:	Red
ш	Production Capacity		2.40 million ton Cement per year
IV	Year of establishment		2001
v	Date of last Environmental Statement submitted		22.09.2017

PART B

Water and Raw Material Consumption

L. Water Consumption m3/day

Sl. No.	Particular	Unit	Qty
1	Water Consumption	m3/d	190 (approx)
2	2 Process		Nil
3	Domestic	m3/d	60 (approx)
4	Boiler Feeding	m3/d	Nil
5	Cooling/Industrial	m3/d	130 (approx)

Name of the Products	Process water consumption per unit of product output				
	During the previous Financial Year(2016-2017)	During the Current Financial Year(2017-2018)			
	(1)	(2)			
Cement	Not Applicable, Cement I	Production is a dry process			

UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2017-2018

PART-D

Hazardous Wastes

As specified under the Hazardous Waste (Management, Handling and Transboundary), Rules 2016

Hazardous Wastes	Total Quantity				
	During the previous Financial Year(2016-2017)	During the Current Financial Year(2017-2018)			
(i) From process > Waste Oil > Waste/Residue containing Oil	0 MT 6.55 MT	8.66 MT 3.23 MT			
(ii) From Pollution Control facilities	Not Applicable	Not Applicable			

PART-E

Solid Wastes

Wastes	Total Quantity					
	During the previous Financial Year(2016-2017)	During the Current Financial Year(2017-2018)				
(a) From process	NA	NΛ				
(b) From Pollution Control facilities	NA	NA				
(c) (1) Quantity recycled or re- utilized within the unit		om Process and Pollution Control silities				
(2) Sold	NA	NA				
(3) Disposal	NA	NA				



AMBUJA CEMENTS LIMITED UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2017-2018

II. Raw Material Consumption

Name of Raw		Consumption of Raw Material per unit of output			
Materials	Name of product	During the previous Financial Year(2016- 2017) 2018) 0.6559 0.6527 0.0376 0.0356			
Clinker	iker		the same and the s		
Gypsum		0.0376	0.0356		
Fly ash	Cement	0.3026	0.3088		
Granulated Slag		0.0039	0.0029		

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	Statutory Limit
	ton/day	mg/Nm3		mg/Nm3
Cement Mill-1 Hopper	0.0103	23	NA	
Cement Mill-1 Venting	0.0083	13	NA	
Roller Press	0.0188	22	NA	
Cement Mill-2 Hopper	0.009	20	NA	
Cement Mill-2 Venting	0.0146	24	NA	30
Cement Mill-2 Separator	0.0116	23	NA	
Packer-I	0.0175	22	NA	
Packer-2	0.0139	15	NA	
Packer-3	0.0079	11	NA	
Packer-4	0.0082	10	NA	
DG-1	0.0214	38	NA	160
DG-2	0.0207	40	NA NA	150

UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2017-2018

PART - F

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

Hazardous waste generated are disposed to PCB certified Recycler

PART G

Impact of the Pollution Abatement Measures taken on conservation of natural resources and on the cost of production.

M/s Ambuja Cements Ltd. is committed for Environment Excellence through environmental friendly activities. Company wishes to conserve the Environment as well as to reduce the production cost by minimizing the waste and by optimizing the process. Efforts for achieving the above goals and for minimizing the adverse effect on environment along with economic growth are as follows:

Installation of Pollution Control Equipments: Efficient and modern state of art pollution control equipment (Bag Filter/House) is being attached to every stack so that the gases emitted to the surrounding atmosphere has components below or as per Statutory norms and do not cause harm to any living being in the surrounding.

Adequate initiatives have been taken for effective fugitive dust suppression like Dust sweeping machine, covered conveyor belts, storage in Silos.

Intensive housekeeping has been maintained to minimize any spillage from which fugitive dust emission is generated. Concrete road has been made in the plant.





Pedestrian Pathway & Concreted Road

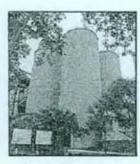
UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2017-2018



Clinker Storage Silo

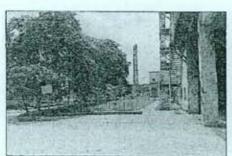


Cement Silo



Fly-Ash Silo

- Water Management: No waste water is being/will be generated from cement
 manufacturing process, as it is based on dry process technology. Domestic waste water
 generated from the colony is being treated in Sewage Water Reclamation Plant (SWRP)
 and treated water is being used for green belt development. Rain water harvesting
 measures for Packing Plant Roof in progress.
- Storage Facility: To control the dust emission effectively, M/s ACL stores the process materials and end products in concrete silos.
- In its endeavor to remain environment friendly, M/s ACL has made dedicated efforts for developing Green-Belt. This plantation are not only meant for its aesthetic value but it also serves as an effective carbon-dioxide sink.





Plantation in Plant Area



UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2017-2018

PART-H

Additional Measures / Investment Proposal for environmental protection including abatement of pollution, prevention of pollution,

Additional investment for Rain Water Harvesting, Recycling RO reject, Venting line modification of Clinker Handling Circuit to reduce fugitive dust emission

PART-I

Any other particulars for improving the quality of the environment.

The Corporate Philosophy of Ambuja Cements Ltd. is to develop and grow along with considering the interests of employees and community at large. Hence the company always gives highest priority to the quality of environment in its vicinity. For serving the aforesaid purpose, the company has taken serious efforts for up-gradation of the surrounding environmental condition.

- Installed Continuous Ambient Air Quality Monitoring Station (CAAQMS) at plant to monitor Ambient Air Quality continuously and display board installed at the Main gate facing the road for the public.
- Meteorological station comprising facilities to monitor rainfall, maximum and minimum temperature, relative humidity, barometric pressure, wind direction ,velocity, and solar radiation has been established
- Installed Continuous Dust Monitoring Systems at various chimney stacks.
- · Concretization of truck yard.
- Reuse of recycled water from Sewage Treatment Plant for dust suppression and gardening project in progress.
- Development and installation of network of dust collection at plant through Industrial Vacuum Cleaner.
- Plant road cleaning with the help of Hako cleaner.
- Roof top rain water harvesting at Packing Plant terrace is in progress.
- Venting line modification of Clinker Handling Circuit to reduce fugitive dust emission.
- Plantation at different locations of plant.
- Roller Press has been installed as a pre-grinder to Cernent Mill-1, helps to reduce specific energy consumption.
- · Identification of e-wastes and disposal to authorized party.
- Recycled water sprinkling on roads through water sprinkler
- Promotion and awareness given to villagers to produce paddy through SRI cultivation which gives more yield and need less water consumption.

the inputs

 Training on inputs identification, tank and fish managements, suppliers, feed preparation to the villagers.

UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2017-2018

- Rural Infrastructure / community assets creation leading to installation of Tube well and their Repairing.
- Women Empowerment Programme to form SHG, capacity building exposure,
- Skill Entrepreneurship Development Institute is training students in various trades like Retail Management, Beautician ,Mobile Repairing ,Basic Electrical,2/3 Wheeler Repairing Customer Support Executive and Smart Sewing Machine Operator courses and likewise providing placements.



Annexure-X Newspaper Publications

KOLKATA TUESDAY 28 JUNE 2011

The Statesman

ered J Dey killing' of teyen. The scendyrs and 25 carridges were

deplayed by Commissioner Mr Arup Parinik and Mr Roy at the Press conference

The state borne minister Mr RR Paul announced Rs 10 fable cash senard to the crime branch for the mediodical investigation. Mr Roy confirmed that police would riame Chhora Rapin as accused with screen hired contract killers to the Deymurder case.

Kelys immediately accepted the offer and and ed assembling other accomplices. The triger was identified by his appearance and speciales they's motorfiske number was given Rajur further informed Kalya that he and his accomplices could get the target either at Perinsula Centre, Lower Parel, where Mid-Day office is bested or Special Building ja 12 to take

arrested from Mumbal, three, including Kalya from Rameshwaram and one from Sofapur in Malurishera

All seven held alleged killers at turn folloved Dey from his office to home to determise where to urger him. New office at Perinsula Centre was ruled out on see 6 des de comparator statement on 18 de la Contre de Contre

JADAVPUR UNIVERSITY

100

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and comparable had fine For 3. Experies in PSV I

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STEEL AUTHORITY OF INDIA LIMITED (A Govt of Inda Enterprise) SAIL Refrictory Unit Sugniferately P.O. Blandardah 82902, Dist: Bokaro Shekhed (fatir) (Properly Blazes

Leftworker Limited) Blackardah Reference (Sent) / 96549-230220 (Fax) / 06642-230672 Bolsero (Fax) Nei SAL / SRUB / PUR 200 08/07/07/18

Dated 22-06-000 NOTICE INVITING TENDER (ARRIPGED) Denc.

Rs. 500 (itugees) (ree handred) only by Cash and Rx 500

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Date of opening of tender: 25-01-201 at 3400 pm.

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অমুক্তা বিনেউস বিনিটোল, ঘলাধুলাখোড়ী, সাকরাইল, হাওড়া षाता अवशरू कता हंईएस्ट्राइ ८ए, हेहाब বিভিন্ন প্রকার সিমেন্ট উৎপাদন ক্ষমতা ১.২০ মিলিয়ন টন (বার্ষিক) হইতে বাভহিয়া ২,৪০ মিলিয়ন টন (বাৰ্বিক), করিবার জনা কেন্দ্রীয় পরিবেশ এবং বনমহকের হাভূপর পাই মাধ্যে অনুমতিপকো গুডিলিলি পশ্চিমবুদ দুখন নিয়ন্ত্রণ পর্যনের নিকট উপনার রবং কেন্টার পরিবেশ এবং বন্যাপ্রকের करहरमाई (http://envfor.nicin) লিপিবভ আছে।

S/D-Dy-Mgr-Env.

296/57 ডিস্কির তেনিখেট আদানত additional हेरेल द्यारको (कम ना **३**३/३३ मद्रचाङ्काती :- हीतक्षिय भित्र রতথারা সর্বসাধানকে জানানো নাইডেছে যে উপরোক্ত দরখাতকারী ভাহার মূত সং ত্রাতা শিশিরকুমার মিত্র, সাং গৌর মধ্যণ রোড, হাটন গোডের নিতট পোট ও খানা-আসানসোগ, জিলা বর্ণহান কর্তৃক ইং ৪০০০৮ ভা কর্তৃক সম্পানিত ও তারু উইলোর অবেট পাইবার জন্ম অর আদালতে উক্ত কেন রজু করিয়াছেল।

কাহানো আপতি থাকিলে এই বিজান্তি প্রকাশের এক মাসের মধ্যে ব্যবদ দশস্টিকেন নড়েব চীক্ত সামলাটিক এর ভরফা কনানী হইবে।

च्याप्र**मान्**त्रप्रद যোগান চক্তবাটী সেবেজানার

Firfight colleged sciences भागमध्यात সাক্ষেদ্য কোন না ৫০/১১ भाषास्त्रको । भागाति (भणे) अस्पाता सर्वभाष्ट्रवर्गात सम्मादना विराहर हा जिनहराक महधाप्रकारी

লাহার মুখ্য সামী মহেশ দিং, সাং भूनदर्शाला अतिहा कमदान, त्याले 'ওপদী, ধানা ভামুবিয়া, জিলা বর্ধমান 67 60000 1,05,810 BIG MINICIPAL

প্রমিতালি

বদ্ধের চেয়াং মেটাতে পারি আমরা। বন্ধুর ও বোভ বিলেশন। K.V.C. 8001172942/3

ফেন্ডস ওয়ার্ন্ড क्षेत्रात मिन (लग) कि 500/-গশ্চিমবংগর প্রত্যেকটি মহকুমায় सक्त । 8017647175

ফ্রেন্ডস গুরু বছরের পর বছর সঠিক পরিসেবা। সঠিক ও সং বছত। বোল্ড রিলেশন। P-400/- 9831318566

হ্যারি ক্লাব গানান্টি সহ সঠিক বছতু করুন হাই যোকাইল মহিলাদের সঙ্গে। SF-5007 9748509750.

প্রিফা ক্লাব নুক মনের মহিলাদের সঙ্গে বন্ধুত। কোনো বুজকুতি নয়। বন্ধু না পেলে जिला (क्षेत्ररे। 8420649709.

বনি ক্লাব হাই গ্রোকাইল দেশি-বিদেশি মহিলার সালে বাছক। ১০০% গালোক। Pr-450/- 8697442765

ফ্রেড্স ভ্যালি বদ্ধহের তেখ্রা÷ মেটাতে পারি অমেরা।

র বোল বিবেশন 8017455103/8017454887 296/17

গভীর সংশ্রু বছ/বাছবীর জনা যোগ কল্ম বিশাসের সাথে। 8017398210/8820371819 29490

নিলেঙ্গ জীবনকে আলোকিত করতে হাই/মিডিয়ান লোকাইল মহিলাদের সাস পাট ভেটিং/কোন বিলেশন। 9836303408, 8981668162 [98/12]

Deepika Club : 19528 য়াজানি ও উক্ত অনুস্থান্তির প্রেয়া। কি 5000-9748285738/ 9748778467/ 0051538820 3947121

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শিকা

D.Ed (P.T.T.), B.Ed, B.P.Ed,

NCTE & UGC জনুমোদিও কোর্সে ভর্তির জন্য বেশ্বন সাংগ্রেশন সেন্টারের নিয়নিবিত <u>র</u>য়েখ (योशाह्याच् कक्त्र) PHRHITT - 8902040388. বলিবহাট-9831822159, রানার্ট-9734319827, वक्रकेटा-9733563181. चमकता- 9474539452. বছরমপুর- 9733599694, রামপুরহাট - 8768501518, पुत्रावृद्धे - 9153557604, ভাগ্রালয় - 9641925769 NIMWI- 9735912770

সম্পাদক পরন টোপুরী, বেঙ্গন সাজেশান সেন্টার, ডিনজোনিয়া বাসস্টাত, রামকৃষ্ণ মার্ক্টো ক্মপ্লেক (ছিত্ৰ) গৰ্মান। M-9434211612 বিঃ হঃ-ফানচাইদি নিতে আগ্রচী ব্যক্তিগণ সম্পাদকের কোন নগুরে যোগাযোগ করন।

ইডিহাস ও বাংলা (H.S-Hons) পঢ়ানো হয়। কোন। 9831910602/ 8961314247

দ্লিমিং শিক্ষায় শ্বনির্ভর হোন। ভারতবর্ষে এই প্রথম কম সময়ে, কম ধরতে আন্তর্জাতিক রোগা ও শেশিং করানো সঠিক চিকিৎসার পদ্ধতি শিখে দ্রিমিং খেরাপিন্ট ও অবিসিটি কনসালটেন্ট হিসেবে কাছ ক্ষন। কোপ কল থেকেই আশাতীত আধের সুধোগা ১০০% कार्याच जातासका ।

অতীন'স কমপ্রিট রিমিং সলিউশন আত ট্রেনিং সেকার 9831316829, 9038968454

UGC-DEC श्रीकड State Govt. University M.Tech, B.Tech, Dip. in Egn. B.A., R.Sc. B.Com, MA, M.Sc. MCom, RBA, MBA, MSc(FT). BCA, MCA, B.Lib, M.Lib-CS ভতি চলিতেছে। (বাংলায় পরীক্ষার ব্যবস্থা আছে) ১৯৮১

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Annexure-XI Photographs of Plant

Annexure-XI Photographs of Plant



Fig 1 : Gypsum Shed



Fig 2 : Covered Conveyors

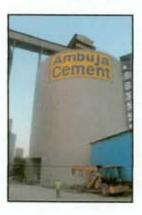


Fig 3 : Clinker Storage Silos



Fig 4: Fly ash Silo



Fig 5 : Cement Storage Silos



Fig 6: Fly Ash Bulker Unloading



Fig 7 : Pedestrian Pathway





Fig 8 : Concrete Road



Fig 9: Water Sprinkler



Fig 10 : Covered Clinker Rake



Fig 11 : Sewage Treatment Plant









Fig. 13 Growing Saplings



Annexure-XI(A) ACF Progress Report

		ibuja Ceme	nexure-XI-A ent Foundation, S t (April 2018 to So	
Sr. No.	Activities	Unit	Cumulative Achievement	Details of the activity
				Issue / Area/ village
1		Aş	gro-based Liveliho	od
1	P	romotion of	System of Rice In	tensification
a	Farmer's Training Programme	Farmers (No)	2422	Capacity building programm conducted with2422 no of farme in different issues of improve agricultural practices such as SR aquaculture, livestock management vegetable cultivation and kitche gardening with exposure in the fiel & Krishi Vikas Kendra.
b	SRI Promotion	acres	98 acres with 254 farmers	ACF Sankrail aims to ensure foo security of the local population in sustainable and eco-friendly manner. To improve productivity of food crops through improve practices [average increase of production by 43% and expenditure to agriculture decrease approximately by 12%] and management of natural resource [especially water, approximately less water consumption of 30% We have promoted SRI in 98 acres of land with 254 farmers, fertility of land increases due to uses of spacing, use of organic manures etc.
c	Off-season Vegetable Cultivation Program (Rain shelter & Scaffolding)		205	Farmers are harvesting lead vegetables like Indian spinad (Palak), radish, coriander etc. The are raising saplings of cauliflow and tomato. Farmers are harvesting ridge gourd, snake gourd, bitte gourd, cow pea, cucumber etc.
Nrs tra	Outscaling Carp prawn mix culture	Farmers (No)	280	Farmers are preparing home made balanced fish feed and applying the same. Aquaculture programmer implemented 280 no of ponding 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 P paper, applying lime and KMno4
e	IEC material for Paraprofessionals	No	2	Training material prepared f Paraprofessionals on off-sease Veg. cultivation, scaffoldin aquaculture & SRI

2 a	School Infrastructure	No	Education 4	Construction of field, pathway a			
a	Support	110		Bhagabatipur MSK Big size Dust bin given to Dhulagarh High School, Mohisgot primary school & Abada Primary school.			
Ь	Education support / Events / Sports	No	12	12 nos different type cultural and sports events organized in collaboration with local clubs			
3			Health & Sanitati	on			
a	No. of STD work place clinics	Days	132	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 In the last two quarter 369 patient treated			
b	Sanitation programme awareness, motivation & IEC - CLTS	No	22	22 nos Sanitation awarenes programme with rally held in cor villages for making Ope Defecation Free village.			
4	HIV/AIDS HCC PROJECT						
a	IPC (Target group covered)	No	8271	8271 truckers & allied covered i IPC / group session.			
b	No. of STI clinics	No	128	The clinic proved to be ver effective in terms of accessibilities and acceptability by the target population as the clinic is situated in the heart of Dhulagori with all basis facilities along with a team of se motivated professionals. As the target population like truckers do naccess the medical facilities outside Dhulagori due to distance, lack of time and safety of their trucks. 339 truckers treated at HCC.			
С	Street Play	No	4	Street play held in the importar transit points to raise awareness of HIV/AIDS among the public			
d	Magic Show / Puppet show	No	2	Magic & Puppet shows held in the different important transit points to raise awareness on HIV/AID among the truckers.			
e	P.E. Monthly Meetings	No	6	Monthly meeting of peer educato who imparts guidance at village during awareness sessions hel regularly			
i	Orientation of Stakeholder	No	2	HCC performance and vision project			
EMEN	Counseling Session	No	2690	Counselling services provided to 2690 no of truckers & helpers.			

1	Social Marketing Codom	No	14900	14900 no of condom distributed through social marketing channel.
m	Satelite Clinic	No	12	12 nos of satellite clinic held in various transit point which covered 298 patients
5	Rur	al Infrastr	ucture / Commu	nity Assets Creation
a	Road /Guard wall Construction	m	320	Construction of 320 meters Concrete road at Mohisgote & Dhulagarh village completed. Guard-wall - 125 meters constructed in Mohisgote & Dhulagarh village.
6		Wome	n Empowermen	t Programme
а	New SHG formation	No	16	16 No new SHG formed. ACF Sankrail is working with 69 women SHG involving 804 members.
b	Capacity Building/ Exposure /IWD	No	49	49 No training and 3 no exposure visit held with SHG members. 21 Group Management trainings, 15 Book keeping trainings, 6 Leadership development trainings, 2 loan Management trainings and 3 financial Literacy trainings and 2 credit planning training were conducted during the period
с	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	97	Four No of IGA like Agriculture and allied (Livestock, bird, fish), small vending, Tailoring, Zari etc adopted by 97 members during the period. Preparation of IGA plan for individual SHG is under progress. Plan has been prepared for 487 members.
7	S	kill Entre	preneurship Dev	elopment Institute
a Sanith	Nos of students trained	No	273	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 273 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	171	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	2	2 events held (Inauguration of DDU-GKY Training programme & 1 no Community Advisory Panel)
c	Safety Awareness Programme	No	54	54 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, hand-washing, thinks to remind during purchase of medicine, importance of Blood donation, myths and misconceptions etc., Agricultural safety issues, Road Safety and Automobile safety etc.

Sr. No	Programme / Activities	Expenses Rs. In Lakhs	
		APR'18 to SEPT'18	
1	Agro-Based Livlihood	962044	
2	Health & Sanitation	981832	
3	Women Empowerment & CB Events	150391	
4	Rural Infrastructure Development	717993	
5	Skill & Enterpreneurship Development Institute (SEDI)	8369167	
6	Establishment	991584	
CEMENTS	Grand Total	12173011	



Photographs of Activities of ACF



Fig.14 Inauguration of DDU-GKY Programme



Fig. 15 Health Camp



Fig.16 Video-Show on Road Safety



Fig. 17 Street Drama



Fig.18 SHG Workshop for Women



Fig. 19 Farmer's Capacity Building Programme





Fig.20 Rain-Shelter for Crop Protection



Fig.21 SRI Field-Use of Weeder Machine

