adani
Cement

ACL/SK/ENV/EC-CC2/11-22 (3)
21st Nov, 2022

To
The Ministry of Environment Forest & Climate Change
Eastern Regional Office,
A/3, Chandrasekharpur,
Bhubaneswar – 751023, Odissa

Sub: Submission of Six-Monthly Compliance Report towards Environment Clearance dated 23.06.2011 for the period April'22 to Sept'22

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

Dear Sir,

Kindly find the six monthly EC compliance status report for the period April'22 to Sept'22 as per EC condition along with supporting documents.

Thanking You,
Yours faithfully
For **Ambuja Cements Ltd**
(Unit: Sankrail)

AMBUJA CEMENTS LIMITED ★ Unit : Sankrail

(Bhimsi Kachhot)
Vice President & Unit Head

CC: 1) The Scientist D, **CPCB** Zonal Office, South End Conclave, Block 508,1582 Rajdanga Main Rd, Kolkata - 700707.
2) Sr. SEE (EIM), **WBPCB**, Paribesh Bhavan, Salt lake, Kolkata-700098

Ambuja Cements Limited

Unit – Sankrail, Jaladhulagori, Vill. & P.O - Dhulagori

P.S. – Sankrail, District Howrah – 711 302

West Bengal, India

Ph +91 33- 6608 7100

CIN: L26942GJ1981PLC004717

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

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

A	Specific Condition	
	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 10th May 2016, particulate matter Emission is maintained below the 30 mg / Nm^3 in all stacks by installing Bag house in Roller press & Bag filter in all remaining stacks. Stack monitoring is provided in *Annexure I.* Ambient Air data is provided in *Annexure II.* Fugitive emission data is provided in *Annexure III.*
Ii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed	One continuous Ambient Air quality monitoring station installed, data of which continuously transmitted to CPCB server. Apart from this NABL accredited external agencies approved by WBPCB are also engaged to carry out the AAQ monitoring at four quadrant of the plant premise. Ambient Air data is provided in *Annexure II.*
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 adequate measures to control fugitive dust emission. 1. All transfer points and storage silos are provided with dust collection and extraction systems (Bag filters) for effective control of fugitive emissions. 2. Clinker is stored inside 02 no. Silos of 25,000 MT each 3. Fly-Ash is stored inside a 4000 MT Silo. Fly Ash is handled through Pneumatic system. 4. Raw materials like Gypsum/Slag Stock are stored under covered shed. Rest covered with proper tarpaulin. 5. Finished Cement is stored in 4 no. Cement Silos of 5,000 MT. 6. Clinker is transported by rake with proper tarpaulin covered. Fly ash is transported by Closed bulkers. 7. All conveyors are covered with GI sheets to avoid any secondary fugitive dust emission. Raw Mill is not installed at Sankrail plant, since it is a cement grinding unit.
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 and open areas in the plant area are concreted / pitched and vehicle movement is allowed only through specific routes for control of secondary fugitive dust emissions. Automatic road sweeping machine and Water sprinkler is used for housekeeping and dust suppression respectively throughout the critical areas such as at the

AMBUJA CEMENTS LIMITED Unit : Sankrail

	ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard	raw material stock yards, cement bag loading areas, truck yard and roads. Pedestrian Pathway inside the factory premises are constructed to ensure safe vehicular movement beside concreted road.
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, Slag and conditioned fly ash are transported to the plant using railway transportation. Dry Fly-ash is transported through closed bulkers only and overloaded quantity is not allowed. Vehicular Emission is regularly monitored at main gate through checking of vehicle Pollution Certificate under PUC norms.
vii	Total ground water requirement shall not exceed 270 m^3/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^3 per day and continuous efforts are made for water conservation through developing STP 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^3/day & 90 m^3/day drawn of ground water through borewells. 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. Cement grinding process is a dry process hence no process waste water is generated.
viii	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources	For the purpose of Roof top rain water harvesting we have made a provision in colony building roof top.
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 (used grease & used oil) is sold to authorized recyclers / re-processors only. Used Batteries are sold to authorized recycler or recycled under buy-back scheme by the suppliers. Hazardous Waste Return is attached.(Annexure -VIII)
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	A proper green belt is developed in our existing factory premises. Out of the total existing plant area i.e. 60.4 Acre, 20.9 Acre area (34.60%) has already been developed into green belt. Continuous effort is being made to develop more of area into plantation- in last six months, we have planted 650 local species (Sisso, Akashmoni, Mahogany, Debdaru) as per guidelines. Survival rate is 95%.
xi	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment	For this period from April-2022 to September-2022, we have incurred Rs. 146.9 Lakhs towards CSR. Details

AMBUJA CEMENTS LIMITED Unit : Sankrail

	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	attached in Annexure IX.
B	**General Condition**	
i	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government	Noted.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests	Noted.
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location	Since it is a cement grinding unit no gaseous emission occurred during process
iv	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of 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	Stack emission [Annexure-I] & Ambient air quality [Annexure-II] data measured by third party 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 for which three 20KL tank has been installed to collect the water and further using through water tanker for dust suppression. STP water analysis report attached in Annexure VI.
vi	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime)	The overall noise levels are monitored in and around the plant area and are within the prescribed limits. Proper noise control measures are used in plant area and PPE are used for more than five minutes exposure of high noise area.
vii	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act	Health check up of all employee including contractual workmen has been conducted regularly as per Factories Act and it is a regular process and record has been maintained.
viii	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the	Ground water recharging is not permissible as per the NoC of West Bengal Pollution Control Board. Water

AMBUJA CEMENTS LIMITED Unit : Sankrail

	lean season besides recharging the ground water table	savings done through Systematic Rice Intensification (SRI) cultivation and Rain water harvesting by digging pond in villages by Ambuja Cement Foundations.
ix	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply & health care etc	Noted. Photographs along with detailed activities are attached in Annexure IX.
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	Total expenditure towards pollution control measure and environment upkeepment is INR. 29.8 Lakhs during Apr'22 to Sep'22 including the cost incurred to maintain the bag filters during this period is Rs 8.36 Lakhs.
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. 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 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	We are uploading EC compliance report along with results of all monitored data to our company website. A complete set of the same is also being forwarded to concerned authority. Online CAAQMS has been installed and started operation from the month of April 2012. Data has been continuously uploaded in CPCB server. 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 Ambient air report , 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 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	The Form-V for the year ended 31st March 2022 has been submitted to West Bengal Pollution Control Board on 22/06/2022 It has been uploaded in website also. (Annexure –X)

AMBUJA CEMENTS LIMITED Unit : Sankrail

	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.	
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 29th June 2011 are enclosed in Annexure VII.
xvi	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work	The copy of NoC has been sent to MoEF and Regional Office on dt 26/12/2011.

AMBUJA CEMENTS LIMITED Unit : Sankrail

ANNEXURE-I

STACK MONITORING REPORT

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

TAHER MANSION, 1ST FLOOR

9, BENTINCK STREET, KOLKATA - 700 001

Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447

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

CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-FG/22-23/467 | Date: July 30, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 20.07.2022 at 02:30 P.M. to 03:02 P.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow

Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Nil 2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.

Volume of Gas Sample : 1152 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	35
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	17.37
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	16402

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	09	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

-: END OF TEST REPORT :-

S. Mondal.

Report Verified by

S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

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

BB

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E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-FG/22-23/468 | Date: July 30, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 20.07.2022 at 03:15 P.M. to 03:47 P.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow

Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Nil
2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.
Volume of Gas Sample : 1184 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	37
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	17.88
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	16780

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	25	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

-: END OF TEST REPORT :-

S. Mondal
Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-FG/22-23/469 | Date: July 30, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 22.07.2022 at 11:00 A.M. to 11:30 A.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow

Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Nil
2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 753 mmHg.

Volume of Gas Sample : 1020 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	65
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	7.77
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	20536

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	17	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

S. Mondal

Report Verified by

S. Mondal

-: END OF TEST REPORT :-

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

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

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CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-FG/22-23/470 | Date: July 30, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 22.07.2022 at 11:40 A.M. to 12:10 P.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow

Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Nil
2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 753 mmHg.
Volume of Gas Sample : 1050 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	90
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	8.88
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	21203

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	12	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

-: END OF TEST REPORT :-

S. Mondal.
Report Verified by
S. Mondal

(Dr. R. KARIM)
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CIN : U51109WB1931PTC007007
TC-7815

TEST REPORT

No. AP-FG/22-23/471 | Date: July 30, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 22.07.2022 at 12:25 P.M. to 12:49 P.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow

Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Nil 2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 753 mmHg.
Volume of Gas Sample : 1152 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	87
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	12.17
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	29312

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	10	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

S. Mondal.

Report Verified by
S. Mondal

-: END OF TEST REPORT :-

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)
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E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-FG/22-23/472 **Date: July 30, 2022**

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 22.07.2022 at 02:30 P.M. to 02:54 P.M.
Test Completed on	: 30.07.2022

Parameters Tested
Physical : Temp., Velocity, Gas flow
Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Nil
2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 753 mmHg.
Volume of Gas Sample : 1056 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	85
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	11.35
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	56059

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	12	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

-: END OF TEST REPORT :-

S. Mondal
Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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CIN : U51109WB1931PTC007007
TC-7815

TEST REPORT

No. AP-FG/22-23/473 Date: July 30, 2022

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 23.07.2022 at 11:40 A.M. to 12:22 P.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow

Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Nil 2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.
Volume of Gas Sample : 1050 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	38
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	12.32
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	31894

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	11	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

-: END OF TEST REPORT :-

S. Mondal
Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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TEST REPORT

No. AP-FG/22-23/474 | Date: July 30, 2022 | Page 1 of

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 23.07.2022 at 12:30 P.M. to 01:12 P.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow
Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Nil
2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.
Volume of Gas Sample : 1008 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	35
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	11.52
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	30107

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	11	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

S. Mondal

Report Verified by
S. Mondal

-: END OF TEST REPORT :-

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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CIN : U51109WB1931PTC007007
TC-7815

TEST REPORT

No. AP-FG/22-23/475 | Date: July 30, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 23.07.2022 at 02:20 P.M. to 03:18 P.M.
Test Completed on	: 30.07.2022

Parameters Tested
Physical : Temp., Velocity, Gas flow
Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Nil 2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.
Volume of Gas Sample : 1152 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	32
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	11.47
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	36631

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	12	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

-: END OF TEST REPORT :-

S. Mondal.

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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TC-7815

TEST REPORT

No. AP-FG/22-23/476 | Date: July 30, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 23.07.2022 at 03:25 P.M. to 04:13 P.M.
Test Completed on	: 30.07.2022

Parameters Tested
Physical : Temp., Velocity, Gas flow
Chemical : CO, CO_2 & PM

A. General information about stack :

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. Physical characteristics of stack :

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 : 35.5 M

C. Analysis / Characteristic of stack :

1. Fuel used : Nil 2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.
Volume of Gas Sample : 1056 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	34
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	10.65
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	33791

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.4	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm³	14	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

-: END OF TEST REPORT :-

S. Mondal.
Report Verified by
S. Mondal

RKarim
(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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CIN : U51109WB1931PTC007007
TC-7815

TEST REPORT

No. AP-FG/22-23/477 | Date: July 30, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 26.07.2022 at 11:00 A.M. to 11:48 A.M.
Test Completed on	: 30.07.2022

Parameters Tested
Physical : Temp., Velocity, Gas flow
Chemical : CO, CO_2 & PM

A. General information about stack :

1. Stack connected to : Wagon Tippler
2. Emission due to : Material transfer.
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 of stack :

1. Height of the stack (a) from ground level : 28.0 M (Approx) (b) from roof level : ---
2. Diameter of the stack (a) at bottom : --- (b) at top : 2.10 M
3. Diameter of the stack at sampling point : 2.10 M
4. No. of Traverse point : 24 Nos.
5. Height of the sampling point from GL : ---

C. Analysis / Characteristic of stack :

1. Fuel used : Nil 2. Fuel consumption : Nil

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.
Volume of Gas Sample : 1104 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	35
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	11.69
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	134669

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
2.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.3	Not Available
3.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	11	30 max.

F. Pollution control device

Details of pollution control devices attached with the stack : Bag Filter.

S. Mondal
Report Verified by
S. Mondal

-: END OF TEST REPORT :-

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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TC-7815

TEST REPORT

No. AP-FG/22-23/478 **Date: July 30, 2022**

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 26.07.2022 at 12:50 P.M. to 01:26 P.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow

Chemical : SO_2, NO_2, CO, CO_2 & PM

A. General information about stack :

1. Stack connected to : DG - I
2. Emission due to : Burning of Furnace Oil
3. Material of construction of stack : M.S.
4. Shape of stack : Circular.
5. Whether stack is provided with permanent platform & ladder : Yes
6. Generator capacity : 6 MW

B. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Furnace Oil 2. Fuel consumption : 1100 Lt./hr.

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.
Volume of Gas Sample : 1116 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	190
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	10.36
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	18059

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985 RA 2012	mg/Nm^3	143	Not Available
5.	Nitrogen dioxide	IS 11255 : Part 7 : 2005 RA 2012	mg/Nm^3	174	Not Available
6.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
7.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	7.0	Not Available
8.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	86	150 max.

E. Pollution control device

Details of pollution control devices attached with the stack : Nil.

S. Mondal

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-FG/22-23/479 **Date: July 30, 2022**

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 26.07.2022 at 02:20 P.M. to 02:56 P.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow

Chemical : SO_2, NO_2, CO, CO_2 & PM

A. General information about stack :

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 : 4 MW

B. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : Furnace Oil
2. Fuel consumption : 900 Lt./hr.

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.
Volume of Gas Sample : 1080 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	198
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	10.12
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	17235

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985 RA 2012	mg/Nm^3	131	Not Available
5.	Nitrogen dioxide	IS 11255 : Part 7 : 2005 RA 2012	mg/Nm^3	162	Not Available
6.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	<0.2	Not Available
7.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	7.2	Not Available
8.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	80	150 max.

E. Pollution control device

Details of pollution control devices attached with the stack : Nil.

S. Mondal

Report Verified by
S. Mondal

-: END OF TEST REPORT :-

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

TAHER MANSION, 1ST FLOOR

9, BENTINCK STREET, KOLKATA - 700 001

Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447

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

CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-FG/22-23/480 **Date: July 30, 2022**

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your Ref. PO No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Stack Gas
Date & time of sampling	: 26.07.2022 at 03:20 P.M. to 03:56 P.M.
Test Completed on	: 30.07.2022

Parameters Tested

Physical : Temp., Velocity, Gas flow

Chemical : SO_2, NO_2, CO, CO_2 & PM

A. General information about stack :

1. Stack connected to : DG - III
2. Emission due to : Burning of H.S.D
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 : 1 MW

B. Physical characteristics of stack :

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

C. Analysis / Characteristic of stack :

1. Fuel used : H.S.D 2. Fuel consumption : 900 Lt./hr.

D. Results of Physical Parameters of Flue Gas :

Barometric pressure : 750 mmHg.

Volume of Gas Sample : 1080 Litre

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	192
2.	Velocity of gas in duct	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	m/sec	10.03
3.	Quantity of gas flow	IS 11255:Part 3:2008 RA 2010 (1st Rev.)	NM^3/hr	17411

E. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985 RA 2012	mg/Nm^3	126	Not Available
5.	Nitrogen dioxide	IS 11255 : Part 7 : 2005 RA 2012	mg/Nm^3	148	Not Available
6.	Carbon monoxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	<0.2	Not Available
7.	Carbon dioxide	IS 11255 : Part 1 : 1985 By Orsat	% v/v	6.8	Not Available
8.	Particulate Matters	IS 11255 : Part 1 : 1985 RA 2009	mg/Nm^3	72	150 max.

E. Pollution control device

Details of pollution control devices attached with the stack : Nil.

S. Mondal

-: END OF TEST REPORT :-

Report Verified by

S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

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

BB

ANNEXURE-II

AMBIENT MONITORING REPORT

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

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Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447

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

CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/364A **Date: July 30, 2022**

Issued to	**: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)**
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your P.O. No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Ambient Air
Location	: Near RO Plant
Date of monitoring	: 22.07.2022 - 23.07.2022
Time of sampling	: 09:40 A.M. - 09:40 A.M.

Parameters Tested

$PM_{2.5}$, PM_{10}, SO_2, NO_2, O_3, NH_3, CO, Pb, Ni, As, C_6H_6 & BaP

Test Completed on : 25.07.2022

Duration of Sampling : 24Hrs.

Barometric Presure : 754 - 750 mmHg

Temperature : 33.0°c - 27.0°c

TEST FINDINGS:-

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results (Time Weighted Avg.)	Norms as per MOE & F Notification New Delhi, 16th November, 2009
1.	$PM_{2.5}$ (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	41	60 (24 Hourly.)
2.	PM_{10} (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	52	100 (24 Hourly.)
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001	µg/m³	4.1	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006	µg/m³	27.0	80 (24 Hourly.)
5.	Ozone as O_3	IS 5182 (Part - 9) : 1974	µg/m³	15.5	180 (1 Hourly.)
6.	Ammonia as NH_3	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	16.2	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	1.16	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.060	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11.	Benzene as C_6H_6	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	<0.1	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

R. V. BRIGGS & CO. PRIVATE LTD.

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CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/365A | Date: July 30, 2022 | Page 1 of 1

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your P.O. No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Ambient Air
Location	: Near Contractor's Room
Parameters Tested	$PM_{2.5}$, PM_{10}, SO_2, NO_2, O_3, NH_3, CO, Pb, Ni, As, C_6H_6 & BaP
Date of monitoring	: 23.07.2022 - 24.07.2022
Time of sampling	: 09:40 A.M. - 09:40 A.M.
Test Completed on	: 26.07.2022
Duration of Sampling	: 24Hrs.
Barometric Presure	: 754 - 750 mmHg
Temperature	: 33.0°c - 27.0°c

TEST FINDINGS:-

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results (Time Weighted Avg.)	Norms as per MOE & F Notification New Delhi, 16th November, 2009
1.	$PM_{2.5}$ (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	42	60 (24 Hourly.)
2.	PM_{10} (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	66	100 (24 Hourly.)
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001	µg/m³	5.3	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006	µg/m³	26.6	80 (24 Hourly.)
5.	Ozone as O_3	IS 5182 (Part - 9) : 1974	µg/m³	16.80	180 (1 Hourly.)
6.	Ammonia as NH_3	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	14.5	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	1.02	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.034	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11.	Benzene as C_6H_6	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	<1.0	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

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CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/366A | **Date: July 30, 2022** | Page 1 of 1

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your P.O. No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Ambient Air
Location	: Near Railway Gate
Parameters Tested	$PM_{2.5}$, PM_{10}, SO_2, NO_2, O_3, NH_3, CO, Pb, Ni, As, C_6H_6 & BaP
Date of monitoring	: 23.07.2022 - 24.07.2022
Time of sampling	: 10:35 A.M. - 10:35 A.M.
Test Completed on	: 26.07.2022
Duration of Sampling	: 24Hrs.
Barometric Presure	: 754 - 750 mmHg
Temperature	: 33.0°c - 27.0°c

TEST FINDINGS:-

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results (Time Weighted Avg.)	Norms as per MOE & F Notification New Delhi, 16th November, 2009
1.	$PM_{2.5}$ (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	50	60 (24 Hourly.)
2.	PM_{10} (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	82	100 (24 Hourly.)
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001	µg/m³	5.6	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006	µg/m³	27.6	80 (24 Hourly.)
5.	Ozone as O_3	IS 5182 (Part - 9) : 1974	µg/m³	15.10	180 (1 Hourly.)
6.	Ammonia as NH_3	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	13.8	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	1.16	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.048	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	0.763	6.0
11.	Benzene as C_6H_6	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	<0.1	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

S. Mondal

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

R. V. BRIGGS & CO. PRIVATE LTD.

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CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/369A | Date: July 30, 2022 | Page 1 of 1

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India.
Your P.O. No.	: 2800903832, dtd. 25.06.2022
Sample Description	: Ambient Air
Location	: Near Transport Office
Parameters Tested	$PM_{2.5}$, PM_{10}, SO_2, NO_2, O_3, NH_3, CO, Pb, Ni, As, C_6H_6 & BaP
Date of monitoring	: 26.07.2022 - 27.07.2022
Time of sampling	: 10:30 A.M. - 10:30 A.M.
Test Completed on	: 28.07.2022
Duration of Sampling	: 24Hrs.
Barometric Presure	: 754 - 750 mmHg
Temperature	: 34.0°c - 27.0°c

TEST FINDINGS:-

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results (Time Weighted Avg.)	Norms as per MOE & F Notification New Delhi, 16th November, 2009
1.	$PM_{2.5}$ (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	45	60 (24 Hourly.)
2.	PM_{10} (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	67	100 (24 Hourly.)
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001	µg/m³	4.1	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006	µg/m³	25.2	80 (24 Hourly.)
5.	Ozone as O_3	IS 5182 (Part - 9) : 1974	µg/m³	14.90	180 (1 Hourly.)
6.	Ammonia as NH_3	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	13.3	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	1.20	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.038	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11.	Benzene as C_6H_6	IS 5182 (Part - 11): 2006,	µg/m³	1.58	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

ANNEXURE-III

FUGITIVE EMISSION MONITORING REPORT

K. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)
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CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/361 | Date: July 28, 2022 | Page 1 of 1

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)	
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302	
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022	
Sample Description	: Fugitive Air.	***Parameters Tested***
Location	: Hopper Building (West Side)	RPM, SPM, SO_2, NO_2 & CO
Date of monitoring	: 22.07.2022	Test Completed on : 25.07.2022
Time of sampling	: 10:00 A.M. - 06:00 P.M.	Duration of Sampling : 08 Hrs.
TEST FINDINGS:-		Barometric Presure : 752 - 750 mmHg Temperature : 33.5°c - 31.0°c

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	880.6	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	1972	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	5.0	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	26.2	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	2.11	40

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

K. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
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9, BENTINCK STREET, KOLKATA - 700 001
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E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/362 | Date: July 28, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)	
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302	
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022	***Parameters Tested***
Sample Description	: Fugitive Air.	RPM, SPM, SO_2, NO_2 & CO
Location	: Clinker Silo (Stock Side & Gypsum Shed Between Area)	
Date of monitoring	: 22.07.2022	Test Completed on : 25.07.2022
Time of sampling	: 10:15 A.M. - 06:15 P.M.	Duration of Sampling : 08 Hrs.
TEST FINDINGS:-		Barometric Presure : 752 - 750 mmHg Temperature : 34.0°c - 31.0°c

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	1344	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	2902	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	5.6	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	24.0	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	1.95	40

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

BB

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

R. V. BRIGGS & CO. PRIVATE LTD.

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CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/363 | Date: July 28, 2022 | Page 1 of 1

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)	
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302	
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022	
Sample Description	: Fugitive Air.	***Parameters Tested***
Location	: FA Unloading area	RPM, SPM, SO_2, NO_2 & CO
Date of monitoring	: 22.07.2022	Test Completed on : 25.07.2022
Time of sampling	: 10:30 A.M. - 06:30 P.M.	Duration of Sampling : 08 Hrs.
TEST FINDINGS:-		Barometric Presure : 752 - 750 mmHg Temperature : 34.0°c - 31.0°c

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	838.9	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	1859	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	5.4	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	24.7	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	1.91	40

-: END OF TEST REPORT :-

S. Mondal
Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

K. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)
TAHER MANSION, 1ST FLOOR
9, BENTINCK STREET, KOLKATA - 700 001
Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447
E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/367 | **Date: July 28, 2022** | Page 1 of 1

Issued to	: **M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)**	
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302	
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022	***Parameters Tested***
Sample Description	: Fugitive Air.	RPM, SPM, SO_2, NO_2 & CO
Location	: Cement Mill (Ground Floor)	
Date of monitoring	: 23.07.2022	Test Completed on : 26.07.2022
Time of sampling	: 10:15 A.M. - 06:15 P.M.	Duration of Sampling : 08 Hrs.
TEST FINDINGS:-		Barometric Presure : 752 - 750 mmHg Temperature : 32.5°c - 29.0°c

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	1187	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	3008	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	4.1	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	18.9	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	2.33	40

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

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

K. V. BRIGGS & CO. PRIVATE LTD.

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(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

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Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447

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

CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/368 **Date: July 28, 2022**

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)	
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302	
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022	***Parameters Tested***
Sample Description	: Fugitive Air.	RPM, SPM, SO_2, NO_2 & CO
Location	: Physical Building West Side	
Date of monitoring	: 23.07.2022	Test Completed on : 26.07.2022
Time of sampling	: 10:00 A.M. - 06:00 P.M.	Duration of Sampling : 08 Hrs.
TEST FINDINGS:-		Barometric Presure : 752 - 750 mmHg Temperature : 32.5°c - 29.0°c

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	118	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	306	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	4.5	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	22.6	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	1.70	40

-: END OF TEST REPORT :-

S. Mondal

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

R. V. BRIGGS & CO. PRIVATE LTD.

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E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/370 | Date: July 28, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)	
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302	
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022	
Sample Description	: Fugitive Air.	***Parameters Tested***
Location	: Roller Press (22 Mtr.)	RPM, SPM, SO_2, NO_2 & CO
Date of monitoring	: 25.07.2022	Test Completed on : 28.07.2022
Time of sampling	: 09:30 A.M. - 05:30 P.M.	Duration of Sampling : 08 Hrs.
TEST FINDINGS:-		Barometric Presure : 752 - 750 mmHg Temperature : 33.0°c - 30.0°c

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	632.12	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	1454.8	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	4.3	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	21.8	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	2.36	40

-: END OF TEST REPORT :-

S. Mondal
Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

K. V. BRIGGS & CO. PRIVATE LTD.

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E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/371 | Date: July 28, 2022 |

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)	
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302	
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022	***Parameters Tested***
Sample Description	: Fugitive Air.	RPM, SPM, SO_2, NO_2 & CO
Location	: Packer 1 & 2 (Ground Floor)	
Date of monitoring	: 25.07.2022	Test Completed on : 28.07.2022
Time of sampling	: 10:00 A.M. - 10:00 P.M.	Duration of Sampling : 08 Hrs.
TEST FINDINGS:-		Barometric Presure : 752 - 750 mmHg Temperature : 36.0°c - 31.0°c

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	1444.5	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	3347.6	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	4.8	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	24.7	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	2.06	40

-: END OF TEST REPORT :-

S. Mondal
Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

SB

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)
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E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007

TC-7815

TEST REPORT

No. AP-AAQ/22-23/372 **Date: July 28, 2022**

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022
Sample Description	: Fugitive Air.
Location	: Packer 3 & 4
Date of monitoring	: 25.07.2022
Time of sampling	: 09:40 A.M. - 05:40 P.M.

Parameters Tested

RPM, SPM, SO_2, NO_2 & CO

Test Completed on : 28.07.2022
Duration of Sampling : 08 Hrs.
Barometric Presure : 752 - 750 mmHg
Temperature : 36.0°c - 31.0°c

TEST FINDINGS:-

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted averag concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	2394.0	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	5232.8	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	4.6	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	19.6	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	1.70	40

-: END OF TEST REPORT :-

S. Mondal
Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manage
Authorised Signato
For R.V.BRIGGS & CO.

BB

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

TC-7815

TEST REPORT

No. AP-AAQ/22-23/373 **Date: July 28, 2022**

Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022
Sample Description	: Fugitive Air.
Location	: Loading Bay
Date of monitoring	: 25.07.2022
Time of sampling	: 10:30 A.M. - 06:30 P.M.

Parameters Tested

RPM, SPM, SO_2, NO_2 & CO

Test Completed on : 28.07.2022
Duration of Sampling : 08 Hrs.
Barometric Presure : 752 - 750 mmHg
Temperature : 36.0°c - 31.0°c

TEST FINDINGS:-

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted averag concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	1486.8	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	3361	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	4.1	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	18.2	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	2.03	40

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P)

BB

R. V. BRIGGS & CO. (P) LTD.
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(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)
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9, BENTINCK STREET, KOLKATA - 700 001
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E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com
CIN : U51109WB1931PTC007007
TC-7815

TEST REPORT

No. AP-AAQ/22-23/374	Date: July 28, 2022	Page 1 of 1
Issued to	: M/S. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)	
Address	: Jaladhulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302	
Your SAP PO No/Plant	: 2800903832, dtd. 25.06.2022	***Parameters Tested***
Sample Description	: Fugitive Air.	RPM, SPM, SO_2, NO_2 & CO
Location	: Wagon Tripple	
Date of monitoring	: 25.07.2022	Test Completed on : 28.07.2022
Time of sampling	: 10:00 A.M. - 06:00 P.M.	Duration of Sampling : 08 Hrs.
TEST FINDINGS:-		Barometric Presure : 752 - 750 mmHg Temperature : 33.5°c - 31.0°c

Sl. No.	PARAMETERS	TEST METHOD	UNIT	Results Time weighted average (8hrs.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part - 23): 2006 Reaffirmed 2012	$\mu g/m^3$	1249.9	5000
2.	Suspended Particulate Matter	IS : 5182 (Part – 4),1999 Reaffirmed - 2010 (1st Rev.)	$\mu g/m^3$	2846.4	10000
3.	Sulphur Dioxide as SO_2	IS 5182 (Part - 2): 2001 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	5.2	5000
4.	Nitrogen Dioxide as NO_2	IS 5182 (Part - 6): 2006 Reaffirmed 2012 (1st Rev.)	$\mu g/m^3$	18.9	6000
5.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m^3	2.30	40

-: END OF TEST REPORT :-

S. Mondal
Report Verified by
S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

BB

ANNEXURE-IV & V

BOREWELL PERMISSION

Annexure-IV

FORM 4

(See Rules 8(3) and 10(3))

PUBLIC OR INDUSTRIAL OR OTHER CONCERNED AUTHORITY

033738

PERMIT FOR SINKING OF NEW WELL

(U/S 7(1)(b) / 8(4)(b) / 7(3)(a) of the West Bengal Ground Water Resources Management, Control and Regulation) Act 2013.)

PERMIT NO. WR/0920/2011/4000000 TILE

1. (a) Name of the applicant (user) : Shri/Smt. AMBUJA CEMENTS LTD
   (b) Son / Daughter of :
   (c) Address of the applicant : DHOLAGORI, SANKRAIL
   (d) Category of farmer (Please tick) (in case of irrigation well) : Small Farmer / Marginal Farmer / Others
   (e) Serial No. of application Form and date of submission : DP/H.0151, Sl.No 1, 2-3-2011
   (f) Specimen signature of the user : Ajay Jha
2. Location particulars—
   (a) District : HOWRAH
   (b) Block, Mouza, J.L. No., Plot No. : SANKRAIL, JALADHULAGORI 002, 1074
   (c) Municipality / Corporation Ward No. / Borough No., Holding No. : N.A.
3. Particulars of the proposed well and pumping device—
   (a) Type of the well : TUBEWELL
   (b) Approx. depth of the well (m) : 250 mbgl.
   (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 (m3/hr.) : 30 m3/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 Sl. (2) for extraction of ground water at a rate not exceeding that as shown at Sl. (3) (j) and for running hours / day as shown at Sl. (3) (K), and is valid subject to the observance of the conditions stated overleaf.

Howrah OFFICE SEAL

Place : HOWRAH

Date : 21/6/2011

21/6/2011

Signature of the Issuing Authority

Designation

Member Secretary
Howrah District
Ground Water Resources

Conditions :

(1) In case of any change of ownership of the proposed well, the [illegible] is to be obtained.
(2) No changes in location, design, rate of withdrawal and pumping device of the proposed well as mentioned in Sl. (3) of this certificate shall be made without prior permission of the Competent Authority. Any such change shall lead to cancellation of this permit.
(3) In case, any of the particulars / information furnished by the applicant in the 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

C.L./430,000/DK

S. Sinha

AMBUJA CEMENTS LTD.
Central Grinding Unit

Annexure-V

FORM 4

[See Rules 3(3) and 12(1)]

(SEAL, SIGN OR HOLOGRAM OF THE CONCERNED AUTHORITY)

033739

PERMIT FOR SINKING OF NEW WELL

[Rule 3(3)(i) / 3(3)(ii) / 3(3)(a) of the West Bengal Ground Water Resources Development, Control and Regulation) Act 2005.]

PERMIT NO. PW0190220196300000ITSE

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) : Small Farmer / Marginal Farmer / Others
   (e) Serial No. of application Form and date of submission : BP/e154; 21-3 dt 6/11
   (f) Specimen signature of the user : Arun
2. Location particulars :
   (a) District : Howrah
   (b) Block, Mouza, J. L. No., Plot No. : Sankrail / Taladkulagori / 002
   (c) Municipality / Corporation Ward No. / Borough No., Holding No. : Plot - 1983
3. Particulars of the proposed well and pumping device :
   (a) Type of the well : Tube Well
   (b) Approx. depth of the well (m) : 250 m
   (c) Purpose of the well : Domestic
   (d) Assembly size (for tube well) : 127 mm. X 76 mm.
   (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 (m3/hr.) : 15 m³/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 : Howrah.

Date : 19/2/12.

OFFICE SEAL

Chinmayi Roy

Signature of the Issuing Authority and Designation

Member Secretary
Ground Water Resources
Development Authority

Conditions:

(1) In case of any change of ownership of the proposed well, fresh registration has to be secured.
(2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2), (3)(j), (3)(K) of this certificate shall be made without prior permission of the Competent Authority. Any violation 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.

Fl. in overlap & that mandatory recharge structure in the complex should be alon...

S.E. / Executive

OFFICE SEAL

S. Sinha

AMBUJA CEMENTS LTD.
Strategic Planning Unit
W.B.
Pin 711302

ANNEXURE-VI

STP WATER ANALYSIS REPORT

TEST REPORT

Name & Address of Customer :

Ambuja Cements Limited

Jaladhulagori, Vill & PO.- Dhulagori, PS.- Sankrail, Dist.- Howrah, WB 711302

Report No. : MSKGL/ED/2022-23/000007

Date : 25/04/2022

Sample No. : MSKGL/ED/2021-22/03/02068

Drawn/Submitted on : 31/03/2022

Reference No. & Date : COC. 30/03/2022

We hereby certify that the following sample drawn by us / submitted by the customer has been analyzed with the following results:

1. Description of sample (As declared by customer)	Waste Water from STP Outlet
2. Sample Mark (if any, given by the customer)	Waste Water from STP Outlet
3. Date of sampling	31/03/2022
4. Place of sampling	Jaladhulagori, Vill & PO.- Dhulagori, PS.- Sankrail, Dist.- Howrah WB 711302
5. Environmental conditions during sampling	Maintained
6. Sampling Plan & Procedures used	As per sop

ANALYSIS RESULT

Chemical

Sl No.	Test Parameters	Unit	Test Method	Result
1	pH value	None	APHA(23rd Edition) 4500-H-B	7.86 at 25 deg C
2	Total Suspended Solid (as TSS)	mg/l	APHA(23rd Edition)2540D	42
3	Biochemical Oxygen Demand (as BOD)	mg/l	APHA (23rd Edition) 5210B 2017	11
4	Chemical Oxygen Demand (COD)	mg/l	APHA (23rd Edition) 5220B, 2017	44
5	Oil and Grease	mg/l	APHA (23rd Edition) 5520B 2017	<5.0

DL : Detection Limit BDL : Below Detection Limit

Report Verified By

For Mitra S. K. Private Limited

Authorised Signatory

* *This results relate only to the item(s) tested.*

* *This Test Report shall not be reproduced except in full, without the permission of Mitra S. K. Private Limited.*

ANNEXURE-VII

NEWSPAPER PUBLICATION

বিজ্ঞাপন

বিজ্ঞপ্তি

অম্বুজা সিমেন্টস লিমিটেড, ফরাকুলাগোড়ী, সাঁকরাইল, হাওড়া দ্বারা অবগত করা হইতেছে যে, ইহার বিভিন্ন প্রকার সিমেন্ট উৎপাদন ক্ষমতা ১.৫০ মিলিয়ন টন (বার্ষিক) হইতে বাড়াইয়া 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.

ডিস্ট্রিক্ট কেমিক্যাল অ্যাক্সিডেন্ট আসানসোল

উত্তর-প্রবেট কেস নং ৪১/১১

...

এতদ্বারা সর্বসাধারণকে জানানো যাইতেছে যে উপরোক্ত ... মৃত ... পোস্ট ও থানা-আসানসোল, জেলা বর্ধমান কর্তৃক ইং ৬.৩.১৮ তাং ... সম্পত্তির ... প্রবেট পাইবার জন্য অত্র আদালতে উক্ত কেস রুজু করিয়াছেন।

অতএব আপত্তি থাকিলে এই বিজ্ঞপ্তি প্রকাশের এক মাসের মধ্যে ... উক্ত ... অন্যথায় একতরফা শুনানী হইবে।

আদেশানুসারে

গোপাল চক্রবর্তী

সেরেস্তাদার

ডিস্ট্রিক্ট জেলিকেট আদালত আসানসোল

সাকসেসন কেস নং ৫০/১১

...

এতদ্বারা সর্বসাধারণকে জানানো যাইতেছে যে উপরোক্ত ... মৃত স্বামী ... পোস্ট ... থানা-জামুড়িয়া, জেলা বর্ধমান এর এস্টেটের ১,৮৮,৫১০ টাকা ...

পত্রমিতালি

বন্ধুত্বের সেরা ঠিকানা ... K.V.C. 8001172942/3

ফ্রেন্ডস ওয়ার্ল্ড
...ফি 500/- ... বন্ধুত্ব। 8017647175

ফ্রেন্ডস ক্লাব
... ফি-400/-, 9831318566

হ্যাপি ক্লাব
... ফি-500/- 9748509750.

প্রিন্স ক্লাব
... 8420649709.

রনি ক্লাব
... ১০০% গ্যারান্টি। ফি-450/- 8697442765

ফ্রেন্ডস ক্যাফে
বন্ধুত্বের সেরা। ... বন্ধুত্ব ও ফ্রেন্ড ... 8017455103/8017454887.

. গভীর সম্পর্ক বন্ধু/বান্ধবীর জন্য ... 8017398210/8820371819

নিজের জীবনকে আলোকিত করতে ... 9836303404, 8961668162

Deepika Club : ... ফি-500/-9748285736/ 9748778467/ 9051535529.

বন্ধুত্ব করানো
... 9330626460 / 9330626403/ 9330626380/ 9330626520

শিক্ষা

D.Ed (P.T.T.), B.Ed, B.P.Ed,
NCTE & UGC অনুমোদিত কোর্সে ভর্তির জন্য যেকোন অ্যাডমিশন সেন্টারে নিম্নলিখিত নম্বরে যোগাযোগ করুন।
শেওড়াফুলি-8902040388,
বসিরহাট-9831822159,
... -9734319827,
... -9733563181,
... - 9474539452,
... - 9733599694,
... - 8768501518,
... - 9153557604,
... - 9641925769
... - 9735912770

সম্পাদক পবন চৌধুরী, ... সেন্টার, ... (বিজ্ঞ) বর্ধমান। M-9434211612 ... যোগাযোগ করুন।

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

নিজের শিক্ষায় স্বনির্ভর হোন। ... ১০০% কাজের সহায়তা।
... কমপ্লিট ব্রিজিং সলিউশন অ্যান্ড ট্রেনিং সেন্টার
9831316829, 9038968454

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

S.Sinha

Annexure-VII

KOLKATA TUESDAY 28 JUNE 2011 The Statesman 2

ered J Dey killing'

of seven. The revolver and 15 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. [illegible]

Kalya immediately accepted the offer and started assembling other accomplices. The target was identified by his appearance and spectacles. Dey's mobile 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 [illegible]

arrested from Mumbai, [illegible] 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 [illegible]

[illegible] Advocate
309, Purba Sinthee Place
Dum Dum, Kolkata-700030
Phone No. [illegible]
Mobile No. [illegible]
[illegible]

(I0XXX)

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 Mahadevgani, 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

I, ARNAB Banerjee, R/o [illegible], Road Road, Kolkata-700[illegible], shall henceforth be known as Tapan Kumar Banerjee, vide affidavit sworn before the Notary Public at Kolkata on 22nd Dec, 2010

I, JENNIFER Baker, W/o Keith Patrick Baker do hereby declare that my son, Peter Lee Jackson, shall henceforth be known as Peter Leo Baker, vide affidavit sworn before the Learned Notary at Kolkata on 27.06.2011

I, RAM Rakesh Ram, do hereby declare that Ram Rakesh Prasad, Ram Rakesh Prasad and Ram Rakesh Ram is one and same person, vide affidavit sworn before the [illegible]

(I0XX5)

MY CLIENT Shri Satyananya Roy has lost / misplaced the original Lease Deed being No. 473 for the year 2010 duly Registered before A.D.S.R. Sealdah, 24 Pgs (S) and a written complaint has been lodged before Kasba PS vide GDE No. 2[illegible] dated 22-06-2011. 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 Ray
Advocate
[illegible]
[illegible]

(I0X0X)

JADAVPUR UNIVERSITY

Kolkata-700032

A walk-in interview will be held in the Audio-Visual Room of Mechanical Engineering Department on 08 July, 2011 at 12 noon for 3 Research Fellows for different projects (1) Modeling and finite element simulation of Uniaxial and Bi-axial low cycle fatigue and Ratcheting. (2) [illegible] [illegible] system. (3) Modeling and experimental verification of [illegible] by [illegible] of [illegible] liquid sheets for design of advanced fuel injectors 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: [illegible]

For 3: [illegible]

Candidates may appear in person directly at the interview with filled up application form available from the Information Office of the University, along with original and attested copies of marksheets and certificates.

(D[illegible])

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) / 06542-233672 Bokaro (Fax)
No: SAIL / SRUB / PUR-295 (B-9) / D / 08
Dated: 22.06.2011

NOTICE INVITING TENDER (ABRIDGED)

Sl. No/ Qty Description of Items: Chamber furnace [illegible] Nos; Qnty. 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: 25.07.2011 up to 2.00 pm.

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

For details please visit our website: www.sail.co.in / www.sailtenders.co.in

Manager (S & P)

Annexure I
Technical Specification

Description: Electrically heated chamber type front loading furnace using Kanthal super, molybdenum disilicide heating elements having maximum temperature of 1800°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 system and programmable temperature control with 16 segments.

Construction: Welded angle iron frame floor model type construction in two sections with sheet metal panelling. [illegible] sections comprises of heating cavity assembly and lower section houses the transformer, electrical etc. The door will be sheet 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 the temperature [illegible]

[illegible] Heating Element (Free in two side walls)

Molybdenum disilicide 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 Operating Temperature 1700°C.

Guarantee: One year of servicing guarantee against any manufacturing defects from date of commissioning except heating elements, perishable materials.

Service Contract: 1 year annual maintenance service contract after one year from the date of commissioning.

(I0092)

OFFICE OF THE JT. CHIEF UNIVERSITY ENGINEER

North Bengal University
TENDER NOTICE NO. JT CHIEF UE/2011 [illegible]
Dt. 27.06.2011

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

1) "Replacement of asbestos sheet roofing [illegible]" [illegible]

S. Sinha

P.O. Dhulagori, P.S.-Sankrail [illegible] Pin-711[illegible]

ANNEXURE – VIII

HAZARDOUS WASTE RETURN DETAIL

Ambuja Cement

ACL/SK/ENV/06-22/09
Date: 22.06.2022

The West Bengal Pollution Control Board,
(Department of Environment, Govt. of West Bengal)
Waste Management Cell
Paribesh Bhavan,
Bldn No. 10A, Block-LA, Sector-III
Bidhan Nagar
Salt lake, Kolkata-700098

Kind Attention: Chief Engineer [WMC]

Sub: Submission of Form-4 for Hazardous Waste for the period April-2021 to March-2022

Dear Sir,

Enclosed please find above mentioned returns for the above said period.

This is for your kind information and necessary records.

Thanking you,
Yours faithfully,

For **Ambuja Cements Ltd.**
Unit: **Sankrail**

(Authorized Signatory)

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 : 2461 7744 / 8413)
(Regd. Off. : P.O. : Ambujanagar, Taluka : Kodinar, District : Gir Somnath, Gujarat - 362715)
CIN Nos. L26942GJ1981PLC004717 Website : www.ambujacement.com

FORM 4

[See rules 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March]

PERIOD: APRIL 2021 TO MARCH 2022

1. Name and address of facility: **Ambuja Cements Ltd., Village: Jaladhulagori P.O : Dhulagori, PS: Sankrail, Howrah -711302**

2. Authorization No. and Date of issue: Memo No. 111/2S(HW)-1443/2003 dated 06.06.2018

3. Name of the authorized person and full address with telephone, fax number and e-mail:

Shri Bhimsi Kachhot
Vice President & Unit Head
Village: Jaladhulagori, PO: Dhulagori,
PS. Sankrail, Howrah-711302

4. Production during the year (product wise), wherever applicable:
Total production during the reporting period: 21,84,107 MT
PPC: 19,26,989 MT, Composite Cement: 2,57,118 MT, OPC: 0 MT

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise :

Sl. No	Category/Waste Detail	Quantity (MT)
1	5.1: (Used/Spent Oil)	2.13
2	5.2 (Residue containing Oil/Grease)	2.25
3	3.3 (Waste Oil)	3.4

2. Quantity dispatched

(i) to disposal facility : NA

(ii) to recycler or co-processors or pre-processor:

Sl. No	Category/Waste Detail	Quantity (MT)
1	5.1: (Used/Spent Oil)	4.38
2	5.2 (Residue containing Oil/Grease)	4.37
3	3.3 (Waste Oil)	0

AMBUJA CEMENTS LIMITED Unit : Sankrail

(iii) others : NA

3. Quantity in storage at the end of the year –

Sl. No	Category/Waste Detail	Quantity (MT)
1	5.1: (Used/Spent Oil)	1.65
2	5.2 (Residue containing Oil/Grease)	1.92
3	3.3 (Waste Oil)	10.46

Part B. To be filled by Treatment, storage and disposal facility operators

1. Total quantity received - NA
2. Quantity in stock at the beginning of the year - NA
3. Quantity treated – NA
4. Quantity disposed in landfills as such and after treatment – NA
5. Quantity incinerated (if applicable) - NA
6. Quantity processed other than specified above - NA
7. Quantity in storage at the end of the year - NA

Part C. To be filled by recyclers or co-processors or other users

1. Quantity of waste received during the year –
   (i) domestic sources
   (ii) imported (if applicable) : NA
2. Quantity in stock at the beginning of the year -
3. Quantity recycled or co-processed or used –
4. Quantity of products dispatched (wherever applicable) – NA
5. Quantity of waste generated - NA
6. Quantity of waste disposed - NA
7. Quantity re-exported (wherever applicable)- NA
8. Quantity in storage at the end of the year - NA

Unit : Sankrail

Date.....22/06/2022.....

Signature of the Occupier ~~or Operator of the disposal facility~~

Place: Sankrail

Ambuja Cement

ACL/SK/ENV/06-22/06
Date: 22-06-2022

The West Bengal Pollution Control Board,
(Department of Environment, Govt. of West Bengal)
Waste Management Cell
Paribesh Bhavan,
Building No. 10A, Block-LA, Sector-III
Bidhan Nagar
Salt lake, Kolkata-700098

Kind Attention: Chief Engineer [Waste Management Cell]

Sub: Submission of Battery Return[Form VIII & IX] for the period October-2021 to March-2022

Dear Sir,

Enclosed please find above mentioned returns for the above said period.

This is for your kind information and necessary records.

Thanking you,
Yours faithfully,

For **Ambuja Cements Ltd.**
Unit: **Sankrail**

Bhimsi Kachhot
(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 : 2461 7744 / 8413)
(Regd. Off. : P.O. : Ambujanagar, Taluka : Kodinar, District : Gir Somnath, Gujarat - 362715)
CIN Nos. L26942GJ1981 PLC004717, Website : www.ambujacement.com

FORM – VIII

[(see rule 10 (2) (ii)]

FORM FOR FILLING RETURNS

FORM FOR FILLING RETURNS FOR BULK CONSUMERS OF THE BATTERIES

(To be submitted by the bulk consumers to the State Board by 30th June (for the period October – March) and 31st December (for the period April – September) every year)

1.	Name and address of the bulk consumer	Ambuja Cements Ltd. Village: Jaladhulagori, PO : Dhulagori, PS: Sankrail, Howrah-711302
2.	Name of the authorized person, Full Address with telephone and FAX number	Shri . Bhimsi Kachhot Vice President & Unit Head Village: Jaladhulagori, PO : Dhulagori, PS: Sankrail, Howrah-711302 Tel No. :- NA Fax No. :- NA
3.	Number of new batteries of different categories purchased from the manufacturer/importer/dealer or any other agency during **October 21-March 22** Category : 1. Automotive 2. Four Wheeler 3. Two Wheeler 4. Industrial 5. UPS	No. / Weight (MT) 09 / 0.450 Nil / Nil Nil / Nil Nil / Nil 180 / 6.840
4.	Number of used batteries of Categories mentioned in Sr. No.3 and tonnage of scrap sent to manufacturer/dealer/importer/registered recycler or any other agency to whom the used batteries scrap was sent	(i) 78 Nos. (ii.) 2.030 MT

*Enclose list of manufacture / dealer / importer / registered recyclers / or any other agency to whom the used batteries scrap was sent.

*Name & Address of Registered Recyclers:

1. M/s Sunflower Metal Industries
Sankrail Industrial Park Dhulagori,
chaturbhijkati, howrah 711313

Place : **Sankrail**
Date :**22-06-2022**

Signature of the Authorized Person

FORM – IX

[(see rule 11 (2) (ii)]

FORM FOR FILLING RETURNS FORM FOR AUCTIONEER OF USED BATTERIES

(To be submitted by the auctioneer to the State Board by 30th June and 31st December every year)

1.	Name and address of the bulk consumer	Ambuja Cements Ltd. Village: Jaladhulagori, PO : Dhulagori, PS: Sankrail, Howrah-711302
2.	Name of the authorized person full address with telephone and FAX number	Shri . Bhimsi Kachhot Vice President & Unit Head Village: Jaladhulagori, PO : Dhulagori, PS: Sankrail, Howrah-711302 Tel No. :- NA Fax No. :- NA
3.	Number of used batteries and total tonnage of (MT) available during the period April-21 to September-21	(i) 78 Nos. (ii.) 2.030 MT
4.	Source of used batteries	UPS
5.	Number of used batteries and total tonnage (MT) auctioned during the period April-21 to September-21	(i) 78 Nos. (ii.) 2.030 MT
6.	Number of used batteries and total tonnage (MT) sent to the registered recyclers*	(i) 78 Nos. (ii.) 2.030 MT

Place : **Sankrail**

Date : **22-06-2022**

Signature of the Authorized Person

ANNEXURE – IX

CSR PROGRESS AND EXPENDITURE

Community Development Initiatives

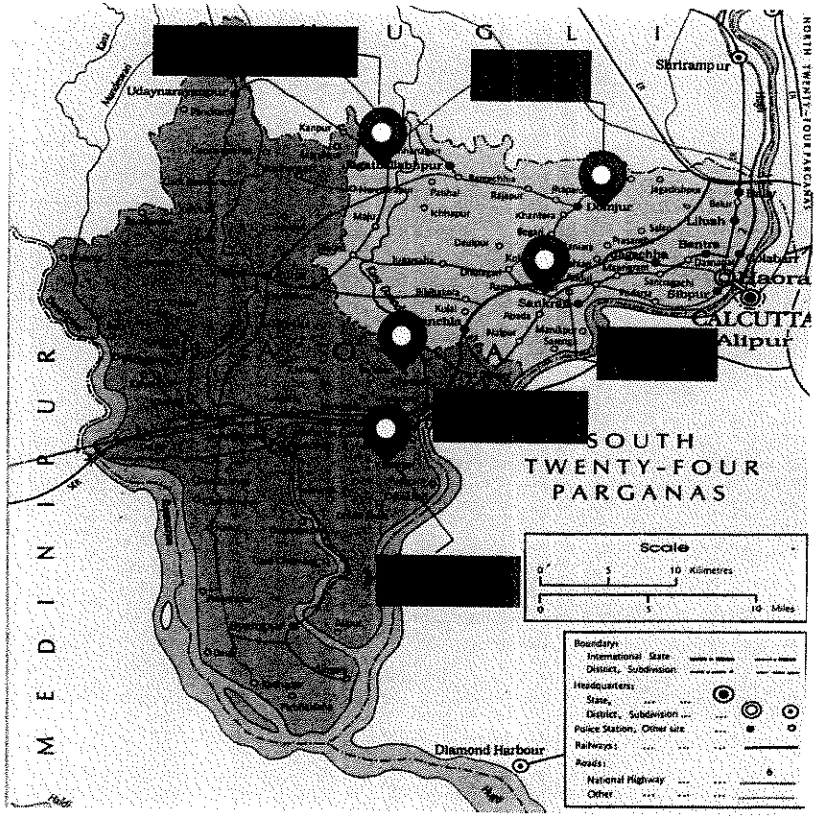
By Ambuja Cement Foundation – Sankrail unit

(April – Sept'22)

Area Profile

Ambuja Cement FOUNDATION

Presence in 5 blocks of Howrah district



Major agriculture practices

Rice: 111.2 thousand hect, Vegetables 14.77 thousand hect and aquaculture: 7.27 hect, 93032 farmers

Land holding pattern

Cropped area: 82.81 thousand hect, % of irrigated area: 54.79, Avg land holding: 0.44 hect

Climate and Rain fall

Rainfall p.a.: 2178 mm, Temperature range: 9^0 - 39^0 C,

Area covered

Block: 5., Village: 31 (core: 8, Non core: 23

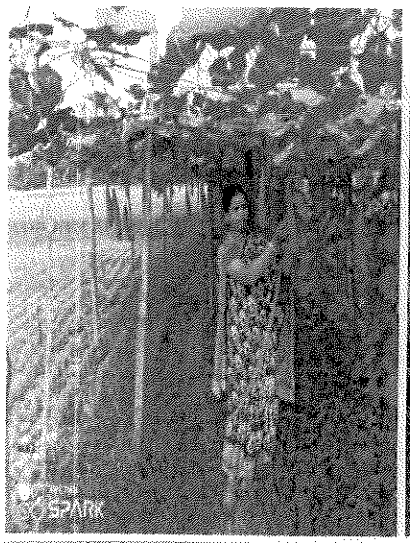
AMBUJA CEMENTS LIMITED Unit : Sankrail

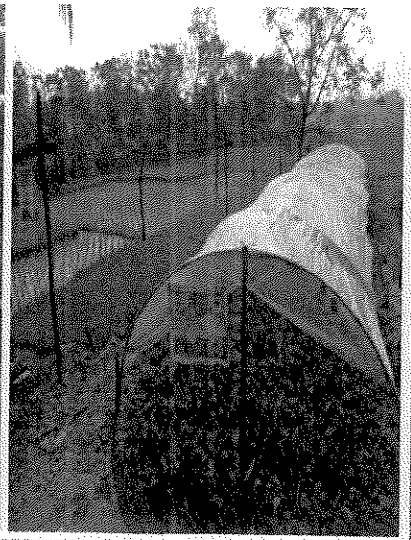
Diversification/ Integration of sub-sectors

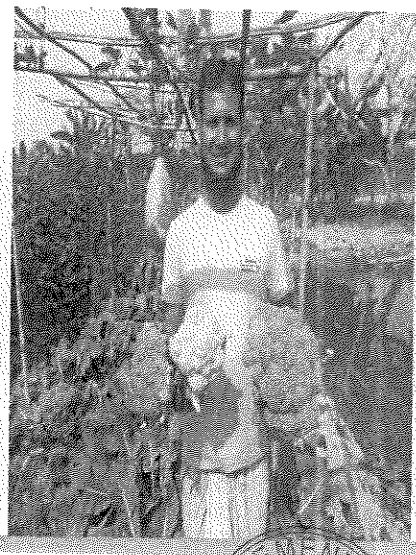
Ambuja Cement FOUNDATION

Focusing on Sustainable Livelihood & Improving Farmer's Income through Integration

SRI & Scaffolding	SRI & Poly Tunnel	Aquaculture & Scaffolding/Poly tunnel	Exotic vegetables & Scaffolding	Aquaculture & Poultry
1	2	3	4	5

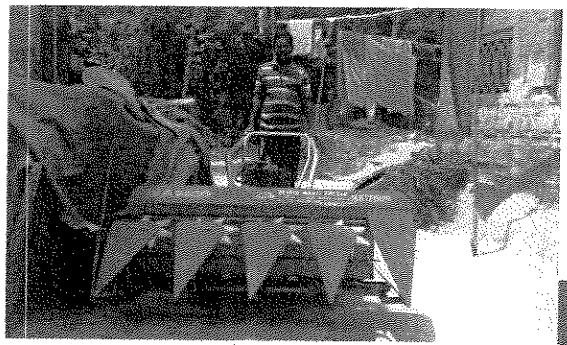






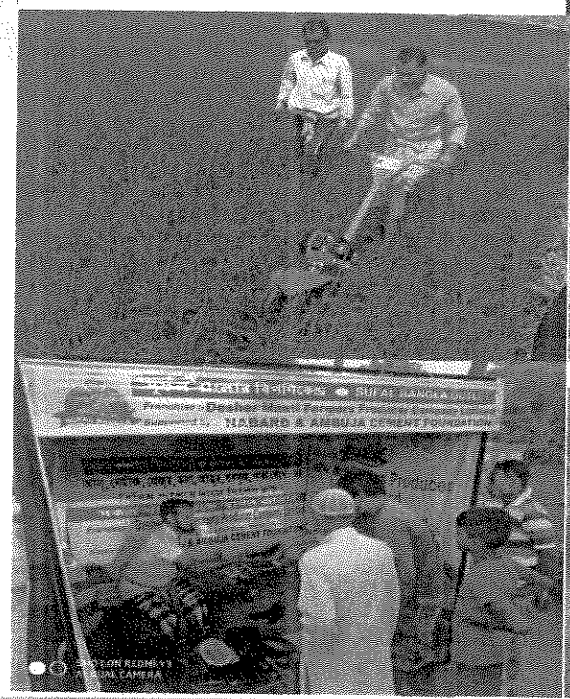

AMBUJA CEMENTS LIMITED ★ Unit : Sankrail

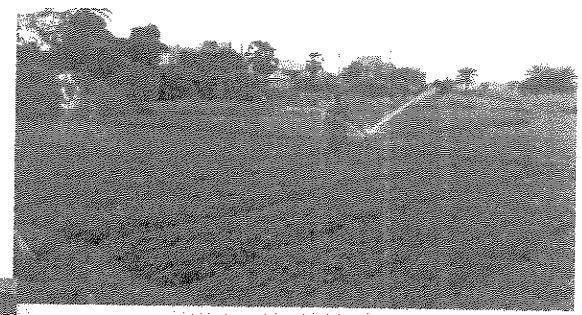
Other new initiatives



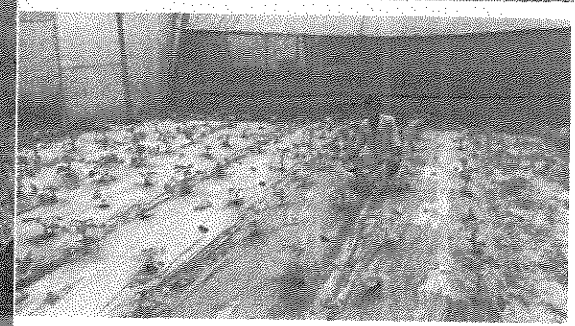
- Total Members = 508
- Female Members = 93 (18%)
- Equity per member = Rs.1000/- Total equity deposited = Rs.3 lakh
- Business ventures = Temporary Sufal Bangla outlet, custom hiring of reaper and mechanized weeder
- Turn over = Rs.327702/-
- Profit = Rs.156081/-

Desher Maati Farmers Producer Company Ltd
Registered under Companies Act as on9h Feb 2022





Portable sprinkler irrigation = 11 farmers
Drip irrigation = 1 farmer



Field Trial of off season okra cultivation with different type of mulching = 2

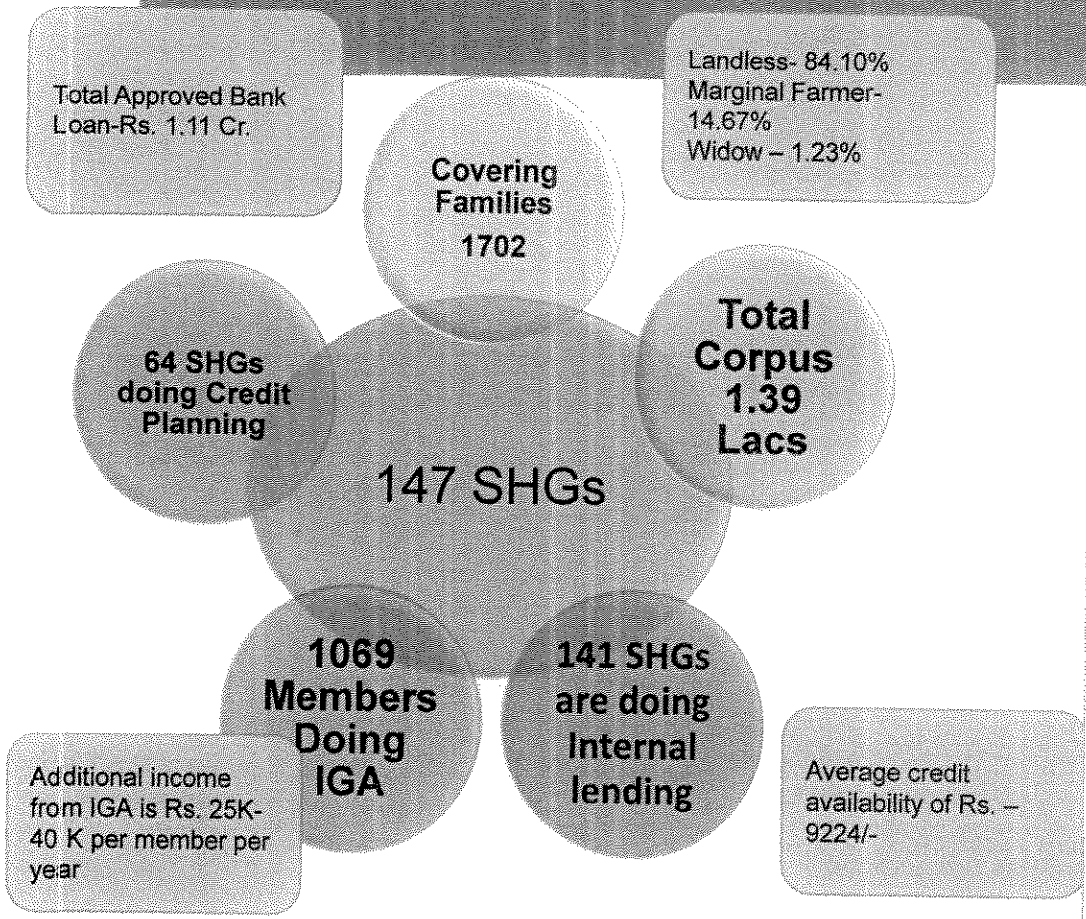
23 farmers Successfully Cultivating fish Under Bio floc

Target Vs Achievement for the year 2022-23

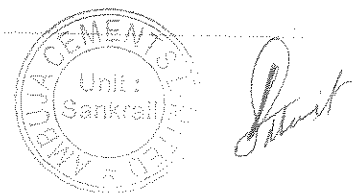
Ambuja Cement FOUNDATION

Program	Target (Farmers)	Achievements (Farmers)	Remarks
ICM – SRI paddy	1000	278	Season starts from end of July
Vegetable promotion (scaffolding, Rain Shelter, exotic vegetables, improved vegetables)	800	796	Creeper in Scaffolding – round the year Off season vegetables – rainy season Exotic - winter
Micro irrigation Promotion	10	9	Portable sprinkler, drip and micro sprinkler
Demonstration plot	2	2	Off season okra cultivation with mulching
Aquaculture Promotion	350	356	Mixed aquaculture
FPO promotion	600	508	
Capacity building	3260	3862	

Basic Data of SHGs



Indicators	Target 22-23	Achievements Up to Spet, 2022
New SHGs Formation in Core Village (2022-23)	10	8
No of Women involve in those new SHGs	120	97
Capacity Building training for IGA	8	7
IGA	150	135
1st Grading	15	13
2nd Grading	10	9
Capacity Building Plan for SHGs base on health checkup (2022-23) in nos.	40	37
Capacity Building of Volunteers	6	3
No of SHGs who can function independently without support of ACF		35
Micro Credit Livelihoods Plan with SHGs	25	16



Key highlight of the program in this quarter

Ambuja Cement FOUNDATION

- Govt taking support from federation for assistance in various government programs like "Duara Sarkar"
- Swasthi Sathi (Health insurance of the members)-67 members. Total 94% SHG members has been covered under swastha Sathi scheme.
- Federation got CIF of Rs.25 lakhs which has been given as loan to 52 SHGs
- Federation got order for making school dress. They made a profit of Rs.80000/- and 6 members got engagement.
- Federation mobilized chick support from Block livestock department for 52 SHGs. 587 members received 5870 nos of chicks and 28 members received goat
- ACF developed 16 master trainers whom BMMU adopted as Block Level Trainers (BLT)
- Grading by NRLM and Bank-6 SHGs. Total internal grading completed for 85% SHGs and external grading done for 65% SHGs
- 2 training conducted for federation members & VO on Credit planning and Corpus management.
- 11 nos. training conducted for SHG members in the villages on SHG management, book keeping, leadership development, credit management etc. Total members covered is 267
- Conducted safety awareness programe and social awareness camps on MHM, child marriage, domestic violence, illitaracy etc.
- Celebrates International Yoga Day.
- Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY)-189 members cover.
- Pradhan Mantri Suraksha Bima Yojana (PMSBY)-84 members cover.

AMBUJA CEMENTS LIMITED * Unit : Sankrail

Few Photographs

AMBUJA CEMENTS
Unit : Sankrail

Overview of the Program

ACF Sankrail intervention on Health Program

Approach

Preventive & Promotive

Awareness generation and educational activities on MHM, Kitchen garden, food demonstration in the communities

Curative

Specialty Health Camps, Eye screening & Eye camps, NCD screening

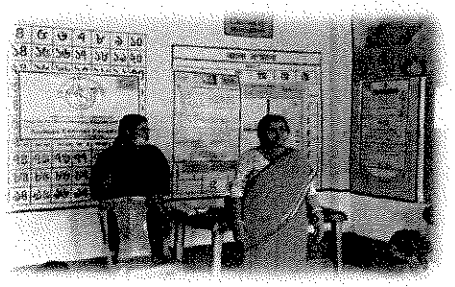
Outreach

Total No. of Population – 8685

Total No. of Village covered – 8

Total No of MCH Beneficiaries covered so far - 3556

Target & Achievement



Sr. No	Indicators	Target for the year	Achievement so far (April to Sept, 2022)	Beneficiaries
2	Paediatric camp	15	10	309
3	Genie Health Camp	15	12	354
4	ANC Health Camp	15	9	127
5	Mothers Awareness Meeting	50	38	1178
6	Personal Hygiene awareness meeting	36	28	812
7	Food demonstration with ICDS	24	18	504
8	Capacity building Training for HV	10	8	96
9	MHM awareness meeting	24	20	722
10	VHND Meeting & Camp	24	21	305
11	ICDS Monthly Meeting	12	10	295
12	Kitchen Garden Intervention	40	30	30

AMBUJA CEMENTS LTD. Unit : Sankrail

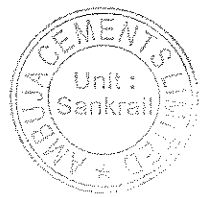
Major Achievements

1. • Total 959 patients were treated in 32 Special Health camps. (ANC, PNC, Pediatric, eye screening & gynecological)
2. • Early registration of pregnant mothers – 78 Through HV and linkage for Tetanus-I in time
3. • Newly Eligible couple - 112 & IFA supplement - 93
4. • Zero Still Birth, Neo-natal death and infant death reported
5. • 100% institutional delivery. Private Institutions (57.89%) > Government institutions (42.11%)
6. • 59 Health Awareness Sessions were organized in which 638 children, 714 adolescent and 989 women were participated
7. • Organized Eye screening camp with 169 village beneficiaries, 105 free spectacles support & 42 free Cataract operation.
8. • MHM interventions in 5 schools with vending machines, Incinerators, MHM Libraries, WASH, proper sanitary setups and regular MHM awareness program in classroom . Linkage with 105 SHG groups with MHM initiative.

ACC LIMITED CEMENT Unit : Sankrail

Target and Achievements

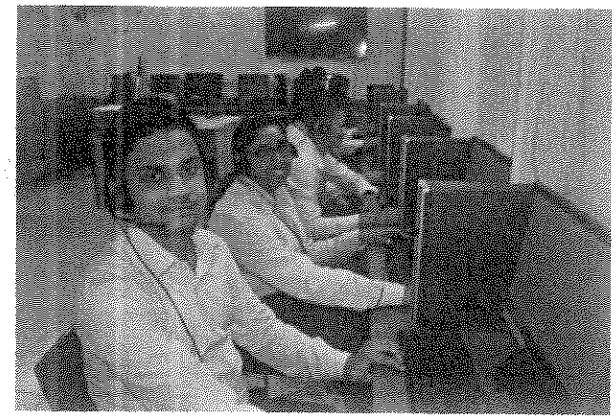
Objective	Target	Achievement of April'21 to March'22		Grand Total	%	Target	Achievement of April'22to Sept'22		Grand Total	%
	Truckers	Truckers	Allied				Truckers	Allied		
Total Reach out through IPC & Mid - Media Activity Only Truckers	22860	18958	1728	20686	90.5	10650	11787	492	12279	115
Total Patients footfall (Static+ Satellite +Health Camp)Only Truckers	6300	4476	1130	5606	89	4000	3580	210	3790	95
Total counseling	5000	3507	668	4175	83.5	3250	2756	352	3108	96
HIV Testing	3000	970	214	1184	39.5	900	1035	87	1122	125
No of STI patients found	0	21	2	23	0.4	0	48	5	53	1.4
No of HIV+ found	0	3	1	4	0.3	0	0	0	0	0
Linkage with ART	0	3	1	4	100	0	0	0	0	0
condom Social Marketing	18000	23700	0	23700	131.7	1800	19800		19800	1100
vision Screening	3150	2582	595	3177	100.9	2750	1945	246	2191	80
Refractive Error - near Vision	0	888	230	1118	35.2	0	470	39	509	23.2
Refractive Error - Distance Vision	0	160	37	197	6.2	0	94	11	105	4.8
Refractive Error - complex vision	0	240	71	311	9.8	0	154	29	183	8
Referral & linkages for cataract and others	0	9	23	32	1	0	21	19	40	1.8
Diabets Screening	3000	2871	783	3654	121.8	900	1632	436	2068	230
Diabets Patients identified	0	855	218	1073	29.4	0	435	17	452	0
Details of Bp Screening (no of Patients)	5606	4576	1052	5628	100.4	4000	3580	210	3790	94.75
Hypertension Patients Identified	0	484	84	568	10.1	0	323	46	369	0
TB Testing	264	735	57	792	300	450	474	137	611	136
TB confirmed case	0	2	1	3	0.4	0	1	1	2	0
Oral test	0	729	152	881		4000	4415	583	4998	124.95
Oral problem (Mejor)	0	16	5	21	2.4	0	37	5	42	0



Skill and Entrepreneurship Development – SEDI (April to September, 2022)

S.No	Trade	Enrolled	Certified/ Trained	Placed	On-going
1.	Automobile 2 Wheeler	44	43	31	
2.	Customer Care Executive	40	19	13	18
3	Sewing Machine Operator	40	16	16	20
4.	Assistant Beauty Therapist	43	21	16	22
5	Smartphone Repairing	53	35	30	18
	Total	**220**	**134**	**106**	**78**

Placement- 79% (Wage – 75% Self – 25%)



AMBUJA CEMENTS LIMITED * Unit : Sankrail

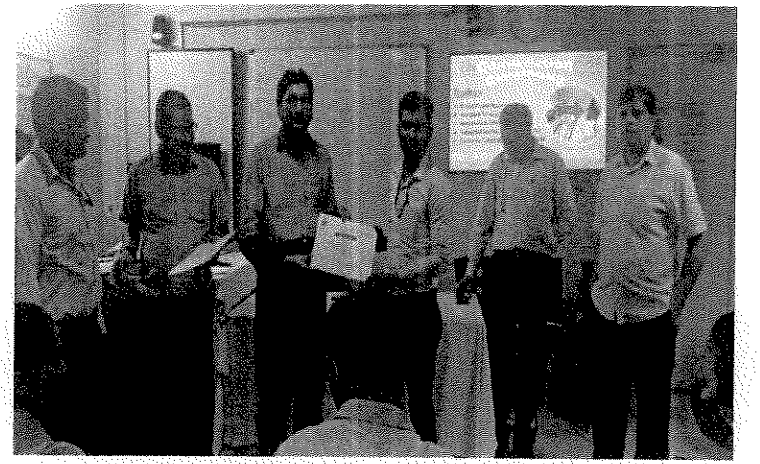
Glimpses (photos)

Exposure Visit of Assistant Beautician Batch at Jawed Habib Saloon

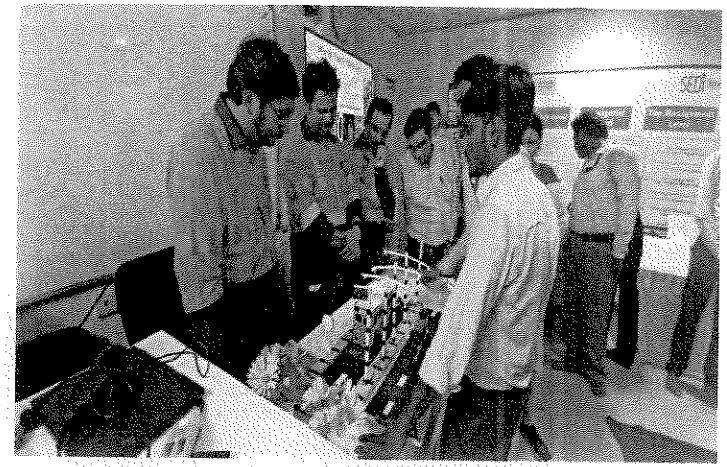
Exposure Visit of Automotive 2 Wheeler Service technician Batch at Jawed Habib Saloon

AMBUJA CEMENTS LIMITED
Unit : Sankrail

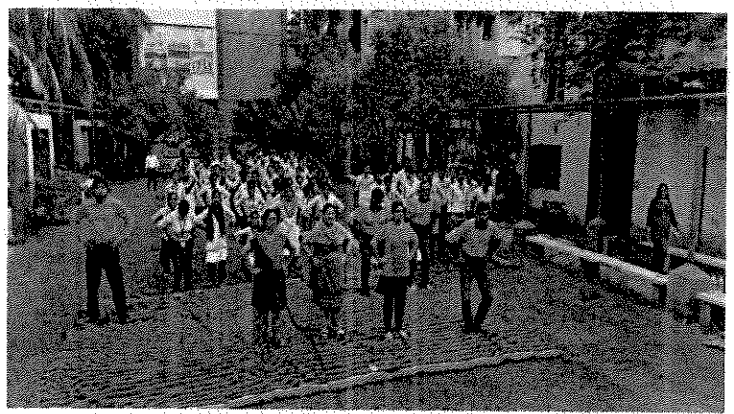
Glimpses (photos)



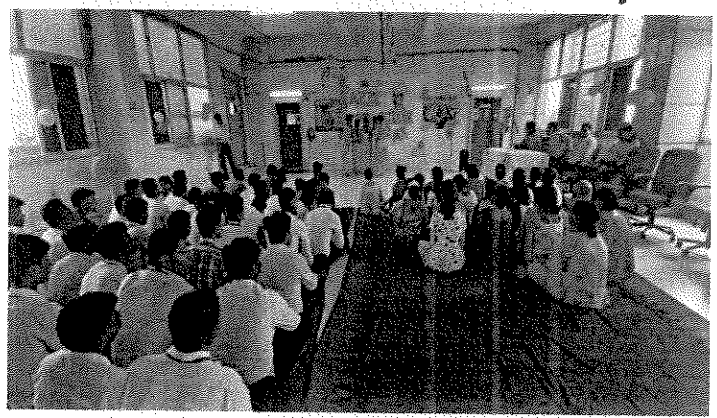
Certificate Distribution



Celebration of Youth Skill Day



Celebration of World Yoga Day



Celebration of Teacher's Day

AMBUJA CEMENTS LIMITED ★ Unit : Sankrail

Ambuja Cement Foundation Sankrail
Indirect Expenses

Group Summary
1-Apr-2022 to 30-Sep-2022

Particulars	*Indirect Expenses*	
	Ambuja Cement Foundation - LC	
	1-Apr-2022 to 30-Sep-2022	
	Closing Balance	
	Debit	Credit
Agrobased Livlihood Promotion	1971927.00	
Establishment Expenses	794018.00	
Gaot & Poultry Project -Nabard	2485.00	
Godrej Salon-I 22-23	621614.22	
Health Care Centre	1349127.00	
Health &Sanitation	547675.00	
Nabard Abl Project	540831.00	
Nabard Skill Training 22-23	1585199.80	
Rural Infrastructure Development	3243770.00	
SKF-PROJECT	1206923.80	
Skill & Enterprenuirship Development Inst.	1816052.00	
Women Empowerment	1013244.00	
Grand Total	**14692866.82**	

AMBUJA CEMENTS LIMITED
Unit : Sankrail

ANNEXURE – X

ENVIRONMENT STATEMENT

Ambuja Cement

Received 22/6/2022
Contents Not Verified
W. B. Pollution Control Board
Howrah Regional Office

ACL/SK/ENV/06-22/05
Date: 22.06.2022

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: **Mrs. Barna Majumder**
Regional Officer (Howrah Regional Office)

Sub: Environment Statement Report of M/s. Ambuja Cements Ltd (Unit: Sankrail) for the year 2021-2022

Madam,

Please find enclosed herewith duly filled Form-V (Rule-14), Environment Statement Report (**2021-2022**) for your kind perusal.

This is for your kind information and necessary records.

Thanking you,
Yours faithfully,

For **Ambuja Cements Ltd.**
Unit: **Sankrail**

Authorised Signatory

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

AMBUJA CEMENTS LIMITED
UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2021– 2022

FORM-"V"
(See Rule 14)

Environmental Statement for the Financial Year Ending on 31st March 2022

PART A

I	**Name & Address of the Owner/Occupier of the Industry**	:	Shri . Bhimsi Kachhot Vice President &Unit Head Village: Jaladhulagori, PO : Dhulagori, PS: Sankrail, Howrah-711302 Tel No. :- 033 6608 7100 Fax No. :- 033 2679 8423
II	**Industry Category Primary- (STC Code) Secondary (STC Code)**	:	Red
III	**Production Capacity**	:	2.40 million ton Cement per year
IV	**Year of establishment**	:	2001
V	**Date of last Environmental Statement submitted**	:	28.08.2021

PART B

Water and Raw Material Consumption

I. Water Consumption m^3/day

Sl. No.	Particular	Unit	Qty
1	Water Consumption	m3/d	178(approx)
2	Process	m3/d	Nil
3	Domestic	m3/d	134 (approx)
4	Boiler Feeding	m3/d	Nil
5	Cooling/ Industrial	m3/d	44(approx)

Name of the Products	Process water consumption per unit of product output	
	During the previous Financial Year(2020-2021)	During the Current Financial Year(2021-2022)
	(1)	(2)
Cement	Not Applicable, Cement Production is a dry process	

AMBUJA CEMENTS LIMITED Unit: Sankrail

II. Raw Material Consumption

Name of Raw Materials	Name of product	Consumption of Raw Material per unit of output	
		During the previous Financial Year(2020-2021)	During the Current Financial Year(2021-2022)
Clinker	Cement	0.6061	0.6061
Gypsum		0.0385	0.03401
Fly ash		0.3356	0.3359
Granulated Slag		0.0197	0.0238

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	0.0035	08	NA	30
Cement Mill-1 Venting	0.0014	03	NA	
Roller Press	0.0075	06	NA	
Cement Mill-2 Hopper	0.0087	20	NA	
Cement Mill-2 Venting	0.0067	13	NA	
Cement Mill-2 Separator	0.0045	06	NA	
Packer-1	0.0218	28	NA	
Packer-2	0.0030	04	NA	
Packer-3	0.0200	23	NA	
Packer-4	0.0222	27	NA	
Wagon tippler	0.0285	09	NA	
DG-1	0.0369	88	NA	150
DG-2	0.0333	80	NA	
DG-3	0.0333	74	NA	

AMBUJA CEMENTS LTD. Unit : Sankrail

S. Sinha

AMBUJA CEMENTS LIMITED
UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2021– 2022

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(2020-2021)	During the Current Financial Year(2021-2022)
(i) From process ➢ Waste Oil ➢ Waste/Residue containing Oil	0MT 4.07 MT	0 MT 4.37 MT
(ii) From Pollution Control facilities	Not Applicable	Not Applicable

PART-E

Solid Wastes

Wastes	Total Quantity	
	During the previous Financial Year(2020-2021)	During the Current Financial Year(2021-2022)
(a) From process	NA	NA
(b) From Pollution Control facilities	NA	NA
(c) (1) Quantity recycled or re-utilized within the unit	No solid waste is generated from Process and Pollution Control facilities	
(2) Sold	NA	NA
(3) Disposal	NA	NA

PART – F

AMBUJA CEMENTS Unit : Sankrail

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. our company is fully committed for conservation of environment & abide all rules & regulations as stated by State & Central pollution control board. The company has taken adequate measures to control fugitive dust emission by installing 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. The dust collected in bag filters is recycled in process. The activities of the company have no adverse effect on the natural resources. Apart from that, we are continuously taking several engineering controls & updating/upgrading the current facilities for the arresting spillages& fugitive emissions.

Automatic road sweeping machine and Water sprinkler is used for housekeeping and dust suppression respectively throughout the critical areas such as at the raw material stock yards, cement bag loading areas, truck yard and roads.



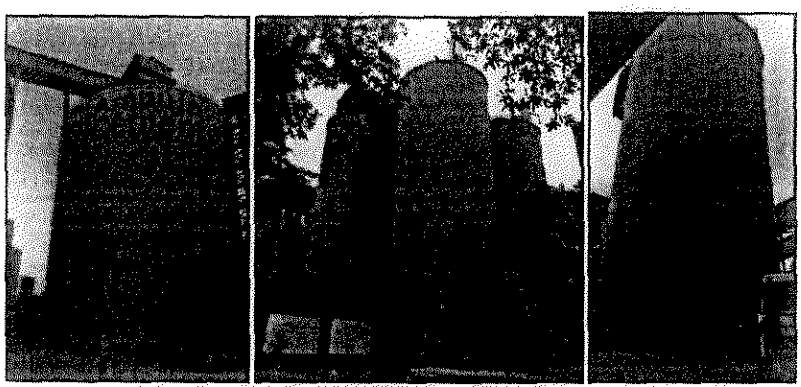

AMBUJA CEMENTS LIMITED Unit: Sankrail

AMBUJA CEMENTS LIMITED
UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2021– 2022

Concrete RoadwithPedestrian Pathway& Covered conveyors



Clinker Storage Silo Cement SiloFly-Ash Silo

- **Water Management**: No waste water is 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 and for Water sprinkling on roads.
- **Storage Facility** :To control the dust emission effectively, M/s ACL stores the raw materials and endproducts in concrete silos/Sheds

In its endeavor to remain environment friendly, M/s ACL has made dedicated efforts for developing **Green-Belt.**We have planted almost 871 trees [includes Akashmoni, Mehogony and kadam] during the period from April'21 to March'22 (Survival rate > 95%).

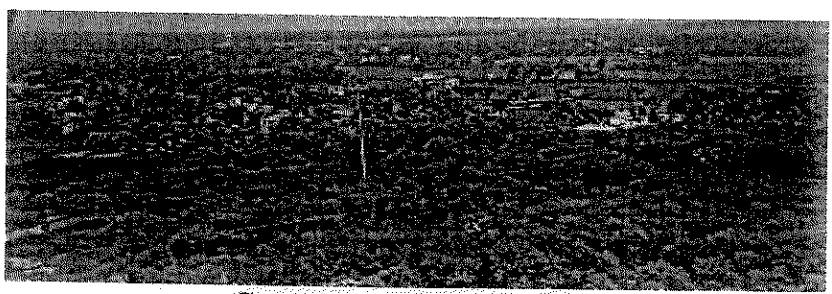
AMBUJA CEMENTS Unit : Sankrail

AMBUJA CEMENTS LIMITED
UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2021– 2022

Plantation driveNew green belt area – planted 1411 tress



Green belt at boundary area

PART – H

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

During the year, we have taken several additional measures forimprovement of housekeeping, spillage control & improve effectiveness of de-dusting systems at various locations of the plant

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.

AMBUJA CEMENTS LIMITED Unit : Sankrail

- 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 Machines (02 nos)
- Plant road cleaning with the help of Hako cleaner.
- Venting line modification of Clinker Handling Circuit to reduce fugitive dust emission.
- Plantation at different locations of plant.For development of green belt ACL has planted 1411 trees (Mehogony, Kadam,Akashmini, Mango, Jackfruit, Sissospecies) which are having a survival rate of 95%.
- Roller Press has been installed as a pre-grinder to Cement Mill-1, helps to reduce specific energy consumption.
- Continuous measures are taken to reduce energy consumption to produce one ton of cement
- Increasing green products (fly ash & slag base) to reduce CO2 emission. 100% Products are fly ash base cement.
- Identification of e-wastes and disposal to authorized party.
- Recycled water sprinkling on roads through water sprinkler
- Stakeholder Management: Ambuja Cement Foundation is continuously striving for community development work. Details are given in **Annexure-I.**

AMBUJA CEMENTS LTD. Unit : Sankrail

Annexure - I

Sub: Progress report of Ambuja Cement Foundation Activities (Apr'21-Mar'22)

A. SEDI Sankrail – April'21 to March'22

SEDI: SEDI Sankrail has adopted various strategies during post pandemic to further boost up the skilling activities and achieve sustainable livelihood of youths by strengthening their vocational skills through quality training in 2021-22 financial year. Achievements of SEDI Sankrail are:

Partnership: After successfully completion of the NABARD sponsored skill project of 2020-21 financial year, NABARD has approved another project under which training of 200 youths are going on. Partnership with TVS Motors for Automobile 2 & 3 Wheeler Repairing Technician job role has been well continued this year. TVS is in the process of assessment of 3 Batches and provided OJT support. A project on Assistant Beauty Therapist has been initiated in collaboration with Godrej. We have also established knowledge partnership with Mercury BPO for Customer Care Executive job role and Bonie Enclave Pvt. Ltd. for ISMO job role. New partnership has been initiated with SKF to train rural youths on automobile sector.

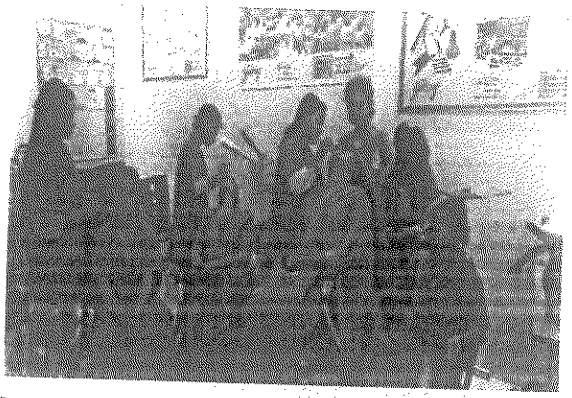
Awareness-building and Mobilization of Youth: Mediums like Facebook Campaigning, Whatsapp bulk massages, KaushalMitra, News Paper Advertisement, local NGOs, Employment News Paper have been used to mobilize candidates along with very limited field movement. SEDI Sankrail reached out 76 villages through its publicity events and information dissemination. Total 432 youth were enrolled.

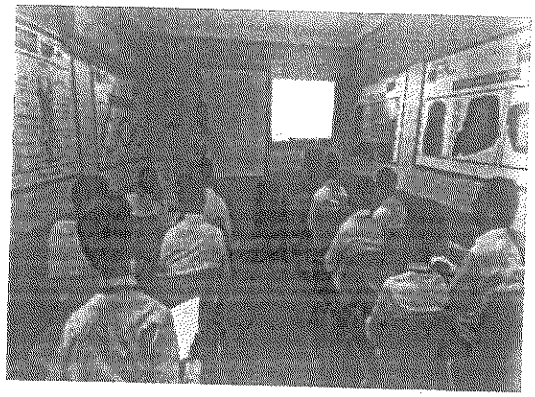
Figure 1: Community Meeting

Figure 2: Auto Campaigning

Training Achievements: SEDI Sankrail has trained 379 trainees during April, 2021 to March, 2022. SEDI Sankrail has run training on 5 Job Roles during this time. SEDI restarted parents meeting to improve the attendance and placement retention. Sankrail SEDI has provided special focus to improve

the women participation in various training courses and their placement. During this FY SEDI has trained 177 female youth (46.7% female).





Placement: Total 21 new employers were identified. As on March, 2022 placement percentage is 71%. (269 candidate placed out of 379 trained candidates). Exposure visits were also conducted for all batches so trainees can have the knowledge of market and work place.

Figure 3: Industry Exposure

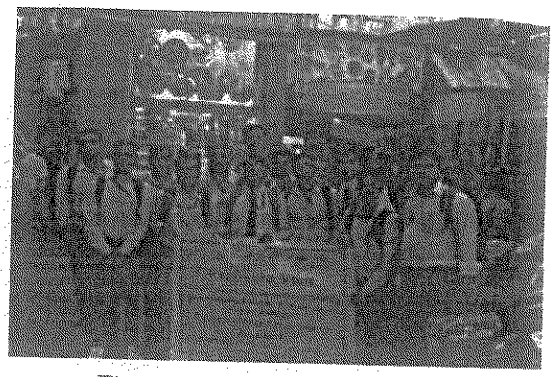
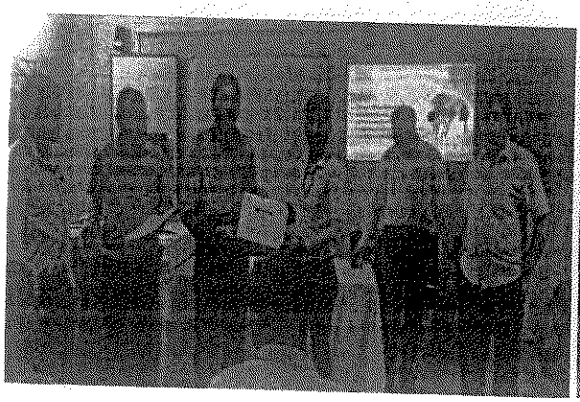


Figure 4: Market Exposure Visit

Celebration of International Women's Day: International Women's Day 2022 was celebrated by the SEDI trainees with great enthusiasm.



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Women Empowerment Programme:

Awareness for new SHG formation: Awareness is first and important step for new SHG formation. It has the power to clear the misconceptions regarding SHGs among village women and their family members. Discussion Points in a Nutshell-Process of formation of SHG, Bank linkage procedure, Credit linkage procedure, Previous experience , Expectation from SHG and ACF, Clarity on various misconception like-Cheat fund, scheme etc. , Pancha Sutra of SHGs, Various Government Schemes, NRLM and SRLM, Savings and Internal loan, Bank Loan and Repayment Procedure, Importance of SHG, Social Issues, Income Generation activities and various training.

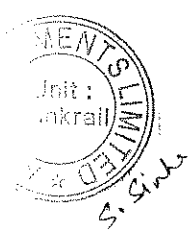
Internal Loan: Internal loan is also an important indicator for functioning of SHGs. Generally members take loan for productive and non-productive purpose.

Purpose of internal and Bank loan: Goat and chick purchase, Purchase of a tailoring machine, Purchase of tailoring machine, Illness and hospital expenses, Off season vegetable cultivation, Purchase of land, Open a retail shop in the village, Repair of old house etc.

Income Generation Activities: IGA is an important economic activity for SHG members. Members are engaged through various activity. Those activities give continue income to the SHG members.

Health check-up for SHGs:

Health check-up is an important activity for SHGs. This helps to explore the real picture of the SHGs. It a systematic process for evaluating SHGs. A format have has been developed on the basis of *Pancha sutra* to grade the SHGs. Capacity building training is very important component for sustaining of SHGs. It helps members to run their organization swiftly and successfully. Several types of traing has been conducted in the village such as- group management, leadership development, book keeping, credit planning, loan management and vision building. Apart from these above training income generation training is also organized for the SHG members on- goat and poultry rearing, mushroom cultivation, aquaculture, vegetable cultivation etc.



Program	Unit	Target	Achievements	Remarks
Monthly Meeting	SHG	All	140	Regular (Monthly) meeting is an important component for SHG. Regular meeting enhance cohesiveness among the members. The process of savings, loan disbursed and reimbursed all are done through meeting. Apart from regular meeting SHGs are conducted other meetings. On an average SHGs are conducting 2 meetings every month. Some SHGs are even conducting 4 meetings.
Monthly Savings	SHG	All	140	Savings is also an important component for SHGs. Generally SHGs savings starts from Rs.50 to Rs.100 per month. The members took loan from the corpus
Mass awareness on social issues	Individual	5	8	SHG members have important role in the society. They aware the other members and help them to come out from prejudice. Four awareness camps have been organized in that period on domestic violence, child marriage, child labour, illiteracy etc.
Awareness camp on Federation formation	SHG	8	11	After conducting the awareness camps we have successfully formed a SHG federation at Kandua Panchayat, Sankrail
Awareness camp on Safety awareness	SHG members and villagers	24	26	Safety is always important and integrated component of our programme. Conducted 24 safety awareness camps with SHG members. It helps them to develop safely behavior in their daily life.

Loan distribution	SHG	125	131	Members are involved with many income generation activities such as- Goat rearing, back yard poultry rearing, vegetable vending, tailoring and zari, vegetable cultivation, grocery shops etc. To run those activities members needs loan. Rather taking loan from outside the members took loan from their own savings. Those loan ranging from Rs.3000 to Rs. 90000/- based on their needs. It found that 85 percent loan taking for productive purpose and only 15 percent members took loan for consumption purpose.
Bank Linkage	SHG	15	17	After formation of SHGs bank linkage is first and foremost activity. Members are deposited their cumulative savings money in that account. Transaction on that account is considered as the base of further credit linkage.
Bank loan	SHG	50	78	13 SHGs are facilitated for credit linkage to mitigate the credit needs of the members. In the 1st credit linkage bank allotted Rs.150000/- as loan and in the 2nd linkage Bank allotted Rs.250000/- as loan to the members.
SHG formation	SHG	10	11	10 new SHGs have been formed in the mentioned period. SHG formation drive has been conducted over a long period we have reached almost saturation point in our target villages.
Grading of SHG (NRLM and Internal)	SHG	60	114	Grading is a tool for heath checkup of SHGs. Grading indicates made on the basis of Pancha Sutra. We have conducted both internal and external grading. We did external grading of 52 SHG collaboration with NRLM departments on the

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				given period and conducted 62 internal grading.
Application for Revolving fund (NRLM R.F and JAGO)	SHG	10	14	After 3 months of age new SHGs are eligible for getting revolving fund from NRLM departments for enhancing their corpus and meet their credit needs.
Promoted Goat and Poultry training	Individual	6	6	Conducted four Goat and poultry rearing training for the rearers. It helps them to developed scientific knowledge among the rearers.
Capacity Building Training For SHG members	Number	40	58	Capacity building programs were conducted on the basis of six module training. Trainings were conducted on group management, book keeping, credit planning, leadership development etc.
Government Insurance Scheme	No	120	175	144 members were linked with swastha Sathi scheme. Along with other family members SHG members can treat up to 150000/- and Rs.500000/- for critical illness.
Day's Celebration	Individual	1	1	As Women Empowerment Programme is deals will 100 percent women. So it is necessary to celebrate International Women's Day to realized their potential and celebrate their achievements.

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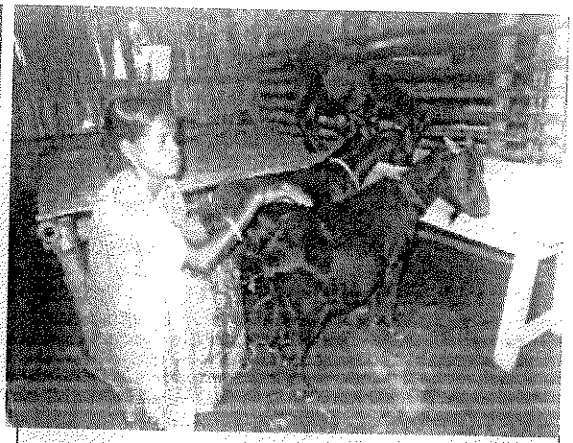
SHG monthly meeting



Goat Rearers

International Women's Day Celebration

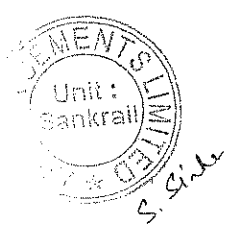
SHG member's Training

Health Program (MCH, Malnutrition, MHM, and IDH)

In order to overcome from COVID-19 pandemic situation this financial year started with full phase. But again from December 2021 the new variant Omicron has become a source of concern for the govt. health department due to the rapid growth of cases. The overall growth rate of positivity in West Bengal was 32.17% which was very high compare to other state. And during that time ACF Sankrail have done lot of work together with Government health department at block level. ACF Sankrail also distributed lots of COVID kit like- pulse ox miter, thermal gun, N95 mask sanitizer, PPE kit, use and through mask, gloves etc. to the Government health department for better preparation of 3rd wave. ACF implemented COVISAINIK volunteer at the location to conduct the vaccination programme in planned way and for providing vaccination to our beneficiary at their doorstep. Not only that ACF developed various IEC on COVID-19 and arrange mass awareness campaign through

announcement at market place and village. As a sensible and committed on responsibility our Health team has initiated various initiatives at community level (within 6 Core Villages) through its Health Volunteers along with ICDS worker and ASHAs to deal with village community. The major initiatives are:

- Door to door awareness campaigns were organized to aware vaccination benefits by our Health Volunteers with close coordination of ANM, ICDS workers and ASHAs.
- Health volunteers have organized covid vaccination Awareness campaign to ensure 100% vaccination in village community.
- Making and distribution of huge number IEC in village community by health volunteers.
- By help of 84 active covisoinik 457 vaccination camps organized to cover near about 98000 populations with collaboration with Govt. health BPHC.
- Addressing Menstrual Health management prog. By strengthening village women and adolescents groups with capacity building and sustain support through provide Sanitary pad vending machine, Disposal machine and MHM library set up in five schools.
- Regular capacity building training in five schools with students on MHM to strengthen and aware against prejudices and misconceptions.
- Soft copies and hard copies of IEC material have been sent to villagers through social media and placed in village areas. We have covered more than 5000 beneficiaries through information dissemination mechanism.
- Regular Specialty health camps have been organized in core villages. Till now 26 health camps have been organized.
- Special Dengue & Malaria awareness sessions by our Health Volunteers with using proper IEC.
- Visit to elderly people regularly by health volunteers and maintaining BP check up.
- Follow up of ANC, PNC mothers and Child immunization process. Attend to VHND camp with collaboration with ASHAs and ANMs.
- MHM awareness meeting and campaign among village adolescents regularly.
- Health awareness meeting among village women and children in various health issues.
- Capacity building training on MCH, Nutrition and MHM among health volunteers, ANMs, ASHAs and AWWs.
- Kitchen garden training and seed distribution among village MCH beneficiaries. 185 Kitchen Gardens are developed in core villages.
- ACF has organized total 45 special camps in core villages. Village community was depended on quack doctor but now they are benefited and accustomed with these health camps. Total 48 Antenatal camps and 20 pediatric camps have been organized. Total 3556 patients were benefited.



- A static health center operates inside Dhulagori truck terminus. It has facility for health check up with medicine for a registration fee of Rs.20/-. Besides HIV testing, sexually transmitted Disease (STI) treatment, hypertension screening, vision screening, diabetic screening, Tuberculosis (TB) screening and treatment with medicine are provided free of cost.

Major Achievements amidst the crisis situation following all safety precautions:

Program	Target	Achievement	Remarks
Review meeting of Health volunteers	48	52	To enhance knowledge on MHM , Nutrition, MCH etc.
Immunization coverage	350	366	Children and ANC mothers' immunization.
VHND camp attend	45	48	By regular follow up immunization process.
Village meeting	35	45	These all meeting organized by maintaining with social distancing with 10 participants each.
Mask distribution	10000	15000	Among 700 elderly in core villages.
MHM awareness & Training	90	102	Through text message and meeting by maintaining all rule and norms.
Health camps	45	55	Specialty health camps for women & children
Capacity building training	12	15	On MHM, Nutrition and MCH awareness on covid situation

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Agro-Based Livelihood promotion

Program	Unit	Target	Achievement	Remarks
Aquaculture Program	Farmers	150	348	Farmers were supported for doing mixed aquaculture with Indian Major Carps and giant prawn. Besides 9 Bio floc units were also promoted. 30% farmers covered were women farmers.
Vegetable cultivation (Rain shelter, Poly tunnel, Integrated scaffolding, exotic vegetable, vegetable seed promotion)	Farmers	700	826	200 farmers were supported for construction of poly tunnels/rain shelters, 176 farmers constructed scaffoldings at the bunds of their ponds/paddy field 450 farmers were supported for exotic vegetable cultivation like Broccoli, color cabbage, cauliflower yellow, cauliflower violet, Chinese cabbage, cherry tomato, yellow squash, green squash, Pakchoi, iceburg Lettuce, Red lettuce, Presley, Celery, Brussels sprout etc. As exotic vegetable market has not developed locally these farmers were exposed to city markets

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				exclusively for exotic vegetables. 39% of the farmers covered were women farmers.
System of Rice Intensification	Farmers	1250 (250 in Kharif and 1000 in Boro)	1579	After adoption of this method the were able to increase their yield by 33% and cost by 14%. The drudgery of the farmers reduced with the use of weeder machines.
Promotion of micro irrigation	Farmers	50	100	100 applications and necessary documents have been collected from farmers for installation of micro sprinkler irrigation. These documents have been submitted to local ADA for availing subsidy under the PMKSY scheme. Uploading of application in PMKSY portal is in process. We have also demonstrated a rain pipe irrigation system
Goat based livelihood promotion	Farmers	250	250	100% farmers covered were women farmers. Various new practices like scientific goat shed management, stall feeding and feeding in manger, timely vaccination and deworming is introduced. Continuous capacity building of 'pasusakhi' and 'community livestock facilitators' have boosted their confidence and skill. They are ensuring door step service delivery like basic vaccination, medicines, awareness and marketing support.
Poultry based livelihood promotion	Farmers	250	250	100% farmers covered were women farmers. Besides promoting improved poultry sheds for chickens breed replacement with Rhode Island Red (RIR) is being emphasized. In both the locations capacity building on improved feeding, timely vaccination, deworming, management of chicks etc are organized. "Pasusakhi" and "Community Livestock Facilitators (CLFs)" promoted by ACF in collaboration with Block Livestock department are also active in providing door step health service delivery.
Integrated poultry shed at the bunds of ponds	Farmers	14	19	Poultry sheds at the bunds of the ponds are being promoted. In these poultry sheds on an average 25 pieces chickens can be raised in 1 cycle. 100% of the beneficiary is women.
Promotion of FPO	Farmers	1000	563	538 members were organized in 30 farmers clubs. 92 members are female. Registration process has started. At present Digital signature recording and uploading is in process. Members of these FPO is

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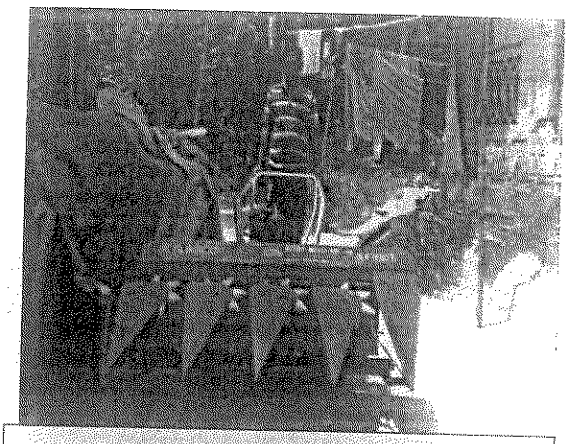
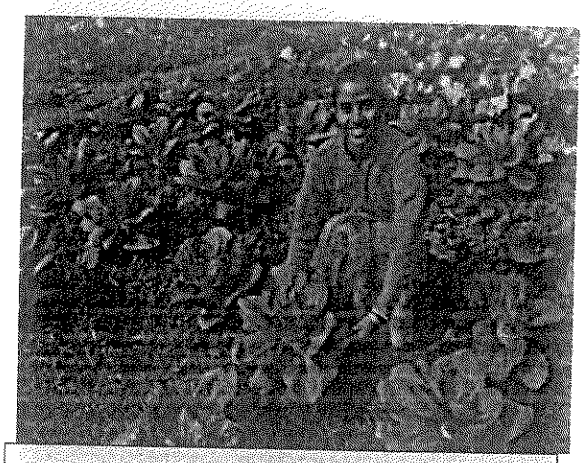
				cultivating exotic vegetables for collective marketing.
Capacity building of farmers under different programs	Farmers		6264	1629 farmers are trained in Vegetable cultivation, 1140 farmers are trained in Aquaculture, 2115 farmers were trained in SRI, 880 farmers are trained on FPO, 32 para-professionals were receiving ongoing training, 250 farmers were trained in goat based livelihood program and 250 farmers were trained on poultry based livelihood program,

Portable sprinkler



Reaper for paddy harvesting

Power weeder for SRI



Exotic vegetable cultivation

Rewards and Recognition:

Ambuja Cement Foundation, Sankrail won an award in 'Gender Equality and Women Empowerment' in the large industry category

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