

**COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE
FOR THE PERIOD OF OCTOBER-2019 TO MARCH-2020**

F. No. J-11011/139/2015-IA. II(I)

SUBMITTED BY-

**M/S. K.R. ASSOCIATES
VILLAGE-AMBHER, JORABAT, MOUZA-SONAPUR,
DIST.-KAMRUP, ASSAM**

EC COMPLIANCE REPORT FOR THE PERIOD OCTOBER'2019 TO MARCH'2020

Name of The Company : **M/s. K.R Associates.**

Project : **Rotary Kiln for clinker (500 TDP) and Cement grinding (500TDP) (closed circuit) units of M/s K.R. Associates, located Village Ambher, Jorabat, Mouza-Sonapur, Dist- Kamrup, Assam- Environmental Clearance regarding.**

Environmental Clearance Letter : **F. No. J-11011/139/2015-IA.II(I), Dated August 20, 2015.**

PART A - SPECIFIC CONDITIONS

I. Construction Phase

SN.	EC CONDITIONS	COMPLIANCE STATUS
(i)	The project location is in the vicinity of Amchang Wildlife Sanctuary at a distance of 1.6 km. As per this Ministry's OM no. J-11013/41/2006/IA-II(I) dated 2 nd December 2009, the PP should obtain prior clearance from Standing Committee of NBWL.	NOC from standing committee of NBWL is not required in our case. Since the project location is far from Amchang wildlife Sanctuary.
(ii)	The project proponent should install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.	Continuous stack monitoring system is installed and data is directly transferred to CPCB.
(iii)	The Standards issued by the Ministry vide G.S.R. no. 612 (E) dated 25 th August, 2014 and subsequent amendment dated 9 th May, 2016 and 10 th May, 2016 regarding cement plants with respect to particulate matter, SO ₂ and NO _x shall be followed.	We have followed all the norms issued by the Ministry.
(iv)	Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks shall be provided. After expansion, limit of PM shall be controlled to meet prescribed standards by installing adequate air pollution control viz Electrostatic precipitators to clinker cooler, bag house to raw mill/kiln and bag filters to coal mill and cement mill. Low NOx burners shall be provided to control NOx emissions. Regular calibration of the instruments must be ensured.	Continuous stack monitoring system is being installed for gaseous emission. Air pollution control devices like bag filter (7 nos), Cyclone (2 nos) are installed to control the air emission.
(v)	Efforts shall be made to achieve power consumption of 70 units/tonne for Portland Pozzolona Cement (PPC) and 95 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	Noted and being complied.
(vi)	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	We have followed the norms of National Ambient Quality standards issued by the ministry.
(vii)	AAQ Modeling shall be carried out to check whether emissions are well below prescribed standards upon implementation of specific mitigative measures taken up in the existing process and proposed for the expansion.	Ambient air quality monitoring reports are enclosed as Annexure-I .
(viii)	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines/Code of practice issued by the CPCB in this regard shall be followed.	Guideline issued by CPCB is followed to control secondary fugitive emission.
(ix)	The Project proponent shall install filter bags system with PTFE dipped PPS felt filter bags, designed to cater for 150% of the air discharge volume. The filter should be replaced at the end of designed life of the filter.	We have installed bag filter to control the air pollution

EC COMPLIANCE REPORT FOR THE PERIOD OCTOBER'2019 TO MARCH'2020

SN.	EC CONDITIONS	COMPLIANCE STATUS
(x)	A statement on carbon budgeting including the quantum of equivalent CO ₂ being emitted by existing plant operations, the amount of carbon sequestered annually by the existing green belt and the proposed green belt and the quantum of equivalent CO ₂ that will be emitted due to the proposed expansion shall be prepared by the project proponent and submitted to the Ministry and the Regional Office of the Ministry. This shall be prepared every year by the project proponent. The first such budget shall be prepared within a period of 6 months and subsequently it should be prepared every year.	Point is noted.
(xi)	Arsenic and Mercury shall be monitored in emissions, ambient air and water.	Point is noted.
(xii)	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of conveyors/rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.	Raw materials and end products are transported in covered vehicle. Good condition Vehicle being used to transport the raw material and end product.
(xiii)	Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated waste water shall 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 shall be adopted.	Being a Zero Discharge unit water is not used in the process. Water consumption is very less.
(xiv)	The project authorities should undertake sample survey to generate data on pre project community health status within a radius of 1 Km from proposed mine.	Noted and will be complied.
(xv)	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Health of the worker is being examined before engaged in the project.
(xvi)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Rainwater harvesting structure is under construction.
(xvii)	All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers/re-processors only.	Dust generate from pollution control device is reused in the process. Waste like spent oil is sold to authorized recycler.
(xviii)	Green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area and along road sides etc. by planting native and board leaved species in consultation with local DFO, local community and as per the CPCB guidelines.	Development of green belt is an integral part of our activity. Green belt will be developed in consultation with DFO, local community and as per CPCB guidelines.
(xix)	The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.	Point is noted.
(xx)	The project proponent shall provide for LED lights in their offices and residential areas.	Noted and being complied.
(xxi)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection(CREP) for the cement plants shall be implemented.	All the recommendations made in CREP for the cement plant is implemented.
(xxii)	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted by constituting a committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.	Following CSR activity has been done 1. Revamped a local School with various common facilities. 2. Renovated a Church near the plant.
(xxiii)	In addition to the above provision of ESC, the proponent shall prepare a detailed CSR plan for the next 5 years including annual	Noted.

EC COMPLIANCE REPORT FOR THE PERIOD OCTOBER'2019 TO MARCH'2020

SN.	EC CONDITIONS	COMPLIANCE STATUS
	physical and financial targets for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Skill Development and infrastructure etc.) activities in consultation with local communities and administration. The plan so prepared shall be based on SMART (Specific, Measurable, Achievable, Relevant and Time bound) concept. The expenditure should be aimed at sustainable development and direct free distribution and temporary relief should not be included. The CSR plan will include the amount of 2 % retain annual profits as provided for in clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be provide in the Annual Report of the company.	
(xxiv)	A Risk Assessment Study and Disaster Prevention and Management Plan along with the mitigation measures shall be prepared with a focus of Disaster Prevention and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.	Risk assessment study and Disaster Management plant along with mitigation measures has already been prepared and submitted along with EIA report. Copy of the same also sent vide your reply letter Ref No RO-NE/E/IA/AS/IN/80/306-37 dated 16-05-2019.
(xxv)	To educate the workers, all the work places where dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associates health effects.	Agreed with.
(xxvi)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Necessary infrastructure like fuel for cooking, toilets, drinking water etc were provided to the labours at the site during construction phase. The structure were removed after the completion of the project.

B. GENERAL CONDITIONS:

SN.	EC CONDITIONS	COMPLIANCE STATUS
i)	The project authorities must strictly adhere to the stipulations made by the Assam Pollution Control Board and the State Government.	Agreed with.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).	Agreed with
iii)	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , PM _{2.5} , 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 Shillong and the SPCB/CPCB once in six months.	Ambient air quality is monitored and monitoring reports are enclosed as Annexure I . Monitoring data also regularly submitted to MoEF Shillong, CPCB Shillong and PCB, Assam once in six months.
iv)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May, 1993 and 31 st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	Being a dry unit waste water is not generated. However STP is installed for domestic waste.
v)	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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 75 dBA (nighttime).	The ambient noise level is monitored and noise monitoring reports are enclosed as Annexure- I
vi)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is be carried out regular basis and records maintain as per the Factories Act.

EC COMPLIANCE REPORT FOR THE PERIOD OCTOBER'2019 TO MARCH'2020

SN.	EC CONDITIONS	COMPLIANCE STATUS
vii)	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain water harvesting structure is under construction to harvest rain water.
viii)	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 programmes, educational programmes, drinking water supply and health care etc.	We have complied and implemented all the protection measures recommended in the EIA/EMP report.
ix)	Requisite funds 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, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of Ministry at Shillong. The funds so provided shall not be diverted for any other purpose.	Agreed with.
x)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila 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 web site of the company by the proponent.	No such suggestions/ representations received from any local body, however EC letter is sent to the gram Panchayat. The clearance letter also placed on the our web site www.galaxycement.com
xi)	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 MOEFCC at Meghalaya. The respective Zonal Office of CPCB and SPCB. The criteria pollutants levels namely; PM ₁₀ , SO ₂ , NO _x (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.	The status of EC Compliance and monitoring data are upload on our website http://www.galaxycement.com/reports.html and it is sent regularly to MoEF Shilong, CPCB Shillong and SPCB.
xii)	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 MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Shillong/CPCP/SPCB shall monitor the stipulated conditions.	Status of the six monthly compliance report and the stipulated environment clearance conditions including result of monitoring data are uploaded in our website i.e http://www.galaxycement.com/reports and hard copy also sent to the Regional Office of MoEFCC, Zonal Office of CPCB and PCB, Assam.
xiii)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Shillong by e- mail.	Noted.
xiv)	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, Forests and Climate Change (MOEFCC) at http://envfro.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 Shillong.	It is published in two news paper namely "Niamiaya barta" and Eastern Chronicle dated 11/04/2017 . Copy of the same is already sent to SPCB, Zonal office CPCB and MoEF Shillong.
xv)	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and approval of the project by the concerned authorities and the date of commencing the land development work.	The date of approval of the project 14-12-2017. The date of land development work 01-2-2018.
xvi)	The Ministry may revoke or suspend the clearance, if	Agreed with

EC COMPLIANCE REPORT FOR THE PERIOD OCTOBER'2019 TO MARCH'2020

SN.	EC CONDITIONS	COMPLIANCE STATUS
	implementation of any of the above condition is not satisfactory.	
xvii)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a bound manner shall implement these conditions.	Agreed with.
xviii)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act. 1974, the Air (Prevention & Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986, Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability & Insurance Act. 1991 along with their amendments and rules.	Agreed with.

ANNEXURE- I

**MONITORING REPORTS OF
(AMBIENT AIR QUALITY AND AMBIENT
NOISE)**

TEST REPORT

AMBIENT AIR ANALYSIS REPORT

Report Code : AAQ-1503113_01_817
 Sample ID: EETNE/JAN/05/2020

Date: 11/01/2020
 ULR NO.: TC76692000000005F

Issued to : M/s. K.R. Associates, Vill: Ambher, Jorabat, Mouza-Sonapur, Dist: Kamrup, Assam.

Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : 07/01/2020 TO 10/01/2020
 Sampling Instrument Used : AIR SAMPLER/RDS
 Pollution Control Device, if any : NO/YES
 Ambient Temperature : 19°C

SL. NO.	DATE OF SAMPLING	LOCATION/SOURCE	WEATHER	PARAMETERS			
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)
i)	07/01/2020	Near Main Gate	Clear	56.0	34.4	17.1	6.6
ii)		Near Assam Type House		59.3	37.2	18.9	7.5

Remarks: - Parameters are within the permissible limit.
 :- Sampling were done under the annual based.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Test Method	Time Weighted Average	Concentration in Ambient Air	
				Industrial, Residential, Rural and Other Area	
1	Sulphur Dioxide (SO ₂), µg/m ³	IS:5182 Part-II/ CPCB	Annual	50	
			24 hours		80
2	Nitrogen Dioxide (NO ₂), µg/m ³	IS:5182 Part-VI/ CPCB	Annual	40	
			24 hours		80
3	Particulate Matter (PM ₁₀), µg/m ³	IS:5182 Part-XXIII/ CPCB	Annual	60	
			24 hours		100
4	Particulate Matter (PM _{2.5}), µg/m ³	EETNE/SOP/01/2017	Annual	40	
			24 hours		60

For Envision Enviro Technologies North East, Guwahati

U.P.
 Utpal Bezbaruah
 (Environmental Chemist)

Pranita
 Dr. Pranita Chakraborty
 Authorized by (Quality Manager)

Note: i) The results relate only to the parameters tested
 ii) The test report shall not be reproduced except in full, without written approval of laboratory.

Recognized by Pollution Control Board, Assam

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 200111_1503113_06A_818

Date: 11/01/2020

Name & Address:

M/s. K.R. Associates
Vill: Ambher, Jorabat,
Mouza-Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	DG Background Noise	Measured Sound	Actual Sound Pressure Level of DG in dB(A) Leq
i)	07/01/2020	200 KVA - DG Set	57.8	71.0	70.78
ii)		50 KVA - DG Set	57.0	70.0	69.77


Remarks: Noise level are carried out during day time at a distance 1metre from the enclosure surface.

Method of analysis : CPCB July 2015

Sampling Instrument Used : ENVIROTECH SLM 100, HTC SL 1350

DG Set Noise Standards:

Noise limit viz. 75 dB(A) at 1m distance.


Utpal Bezbaruah
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Dr. Pranita Chakraborty
(Quality Manager)
(Authorized Signatory)

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NABL ACCREDITED LABORATORY

Recognized by Pollution Control Board, Assam

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 200111_1503113_06A_819 ³¹⁴

Date: 11/01/2020

Name & Address:

M/s. K.R. Associates
Vill: Ambher, Jorabat,
Mouza-Sonapur,
Dist: Kamrup, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq	
			Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
i)		Near Main Gate	70.8	63.2
ii)	07/01/2020	Near Assam Type House	73.6	66.5

Remarks: Noise level is carried out during 75% of the Day Time & Night Time together.

Method of analysis : CPCB July 2015


Sampling Instrument Used : ENVIROTECH SLM 100, HTC SL 1350

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


Utpal Bezbaruah
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


Dr. Pranita Chakraborty
Authorized by (Quality Manager)

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NABL ACCREDITED LABORATORY

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TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_1503113_02_820-214
 Sample ID: EETNE/JAN/05/2020

Date: 11/01/2020
 ULR NO.: TC766920000000005F

Issued to : M/s. K.R. Associates, Vill: Ambher, Jorabat, Mouza-Sonapur, Dist: Kamrup, Assam.

Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : 07/01/2020 TO 10/01/2020
 Sampling Instrument Used : STACK KIT / FLUE GAS ANALYZER
 Pollution Control Device, if any : NO/YES
 Ambient Temperature : 19°C

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS
			Particulate Matter (g/kwhr)
i)	07/01/2020	Stack attached to DG set - 200 KVA	0.17

REMARKS:- Data is within the permissible limit
 :- Method of analysis: IS 11255 PART-I

Emission Standards for Diesel Engine for generator set :

Engine Power(P)	Parameter	Standards
75KW<P≤800KW	Particulate Matter	≤ 0.2 g/kwhr

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS
			Particulate Matter (g/kwhr)
ii)	07/01/2020	Stack attached to DG set - 50 KVA	0.24

Emission Standards for Diesel Engine for generator set :

Power Category	Emission Limit (g/kwhr)
	Particulate Matter
19KW<P≤75KW	≤0.3

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 (Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati

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 (Quality Manager)
 (Authorized Signatory)

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TEST REPORT

STACK ANALYSIS REPORT

Rep.No. SAR_1503113_02_821
 Sample ID: EETNE/JAN/05/2020

Date: 11/01/2020
 ULR NO.: TC766920000000005F

Issued to : M/s. K.R. Associates, Vill: Ambher, Jorabat, Mouza-Sonapur, Dist: Kamrup, Assam.

Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : 07/01/2020 TO 10/01/2020
 Sampling Instrument Used : STACK KIT / FLUE GAS ANALYZER
 Pollution Control Device, if any : NO/YES
 Ambient Temperature : 19°C

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (mg/Nm ³)	
i)	07/01/2020	Stack attached to bag filter of Cement Mill	25.1	- Bag filter is attached to Cement mill.

REMARKS:- Data is within the permissible limit
 :- Method of analysis: IS 11255 PART-I

Emission Standards :

Parameter	Standards
Particulate Matter	30mg/Nm ³

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