

Ref.No. TS/ENV/52/2019  
Date: 10.10.2019

To,

The Director  
Ministry of Environment & Forests,  
Government of India, Paryavaran Bhawan, C.G.O. Complex,  
Lodhi Road, **New Delhi - 110003.**

Sub.: Half yearly Environmental Compliance Report.

Ref.: (a) MoEF Environmental Clearance Letter No.: J-11011/638/2008- IA  
II (I) dated 19.12.2008  
(b) MoEF Environmental Clearance Letter No. J-11011/638/2008-  
IA.II (I) dated 19<sup>th</sup> December, 2008; as amended on 16.03.2016

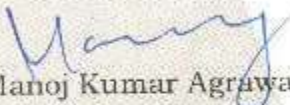
Sir,

This has reference to the above subject and MoEF&CC Letter Nos. Cited above, we hereby submit the Half yearly Compliance Report for the period of April'19 to Sept'19 as per Environmental Clearance letter issued by MoEF&CC, New Delhi during Expansion of Cement Grinding Unit (3.4 MTPA to 4.6 MTPA) at Jojobera Cement Plant, Village Jojobera, P.O. Rahargora, Jamshedpur (Jharkhand) by M/s. Nuvoco Vistas Corp. Ltd.

This is for your kind consideration and record.

Thanking you & with regards,

For Nuvoco Vistas Corp. Ltd.

  
(Manoj Kumar Agrawal)  
Sr. Vice President  
Jojobera Cement Plant

Encl.: MoEF&CC Environment Compliance report.  
Annexure 1, 2, 3, 4, 5, 6 and 7 for monitoring reports and Annexures

Copy with enclosures to:

- 1) Central Pollution Control Board, New Delhi
- 2) Ministry of Environment & Forests, Ranchi
- 3) Jharkhand State Pollution Control Board, Ranchi
- 4) Jharkhand State Pollution Control Board, Adityapur

**Nuvoco Vistas Corp. Ltd.**

Jojobera Cement Plant, PO - Rahargora, Jamshedpur - 831016 (India).

Tel.: (91) 657 2277254 / 56 | Fax : (91) 657 2277244 | Website : [www.nuvoco.in](http://www.nuvoco.in) | CIN - U26940MH1999PLC118229

Registered Office : Equinox Business Park, Tower - 3, East Wing, 4th Floor, LBS Road, Kurta (West), Mumbai - 400070

Point wise reply of Conditions Stipulated in Environmental Clearance Letter No. J-11011/638/2008- IA II (I) dated 19<sup>th</sup> December, 2008; issued from MoEF, New Delhi for Expansion of Cement Grinding Unit (3.4 MTPA to 4.6 MTPA) at Jojobera Cement Plant, Village Jojobera. P.O. Rahargora, Jamshedpur, Jharkhand by M/s. Nuvoco Vistas Corporation Limited

A. Specific Conditions		
S. No.	Conditions	Reply
i.	All the other necessary statutory clearances from the concerned Departments including 'No Objection Certificate' from the Jharkhand State Pollution Control Board shall be obtained prior to commencement of construction and / or operation.	The Consent to Operate vide letter No PC/JSR/AIR/L-17/11-/G-2442 dated 30.09.2011 had been obtained from Jharkhand State Pollution Control Board before start of the production.
ii.	Cement grinding shall be carried out in closed circuit and highly efficient bag dust collectors / bag house based on reverse pulse jet technology to raw mill / kiln shall be installed to control dust emissions. Continuous on-line monitors for particulate emissions shall be installed. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the Jharkhand State Pollution Control Board (JSPCB). At no time, the stack emissions from various sources shall exceed 50 mg/Nm <sup>3</sup> . Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically and reports submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and JSPCB regularly.	Cement grinding is carried out in Vertical roller mill. Closed clinker silo and highly efficient bag dust collectors / bag house have been installed to control dust emissions. Continuous on-line monitors for particulate emissions have been installed. The gaseous and particulate matter emissions from various units are conformed to the standards prescribed by CPCB. The stack emissions from various stacks are maintained to be less than 30 mg/Nm <sup>3</sup> . Interlocking facility has been provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) shut down automatically.

iii.	<p>Ambient air quality monitoring (AAQM) stations shall be set up as per statutory requirement in consultation with the Jharkhand SPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality shall be carried out regularly in consultation with JSPCB and on-line data shall be submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and JSPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.</p>	<p>Ambient air quality monitoring (AAQM) stations are set up as per the statutory requirement in consultation with the Jharkhand SPCB. On-line data being submitted regularly to CPCB and JSPCB.</p> <p>Monitoring of ambient air quality for the existing plant is being carried out regularly and report is being submitted to JSPCB.</p> <p>Ambient Air Quality and Stack Monitoring Report are monitored every month. The Monitoring results of the same have been annexed herewith as <a href="#">Annexure 1 and 2</a> respectively.</p>
iv.	<p>The fugitive emissions during loading and unloading shall be suitably controlled. Bag house/filters shall be provided to control air emissions. The company shall install adequate dust collection and extraction system to control fugitive dust emissions from transfer points, hoppers, loading points, vehicular movement etc. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stockyard and cement bag loading areas.</p>	<p>Bag house/filters are provided to control air emissions. Adequate dust collection and extraction system has been provided at transfer points, hoppers, loading points etc., Raw materials stored in closed roof sheds. Water sprinkling being done on regular basis at raw material stockyard and at cement bag loading areas.</p>

v.	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.	CPCB Guidelines to control secondary fugitive emissions being followed.
vi.	Total water requirement after expansion from TISCO supply shall not exceed 1050 m <sup>3</sup> /day. No effluent shall be discharged from the process outside the premises and all the treated effluent shall be utilized for green belt development and other plant related activities. 'Zero' discharge shall be strictly adopted. Domestic wastewater in plant and township shall be treated in septic tanks followed by soak pit system.	Total water is supplied from JUSCO under a contract. No effluent is generated from the proposed plant; the Plant is a "Zero Discharge Unit". The domestic effluent is being treated in Sewage Treatment Plant and its outlet water being used for protecting green belt and sprinkling purposes.
vii.	'Permission' for the drawl of 1050 m <sup>3</sup> /day from TISCO supply shall be obtained or if agreement is signed between M/s TISCO and M/s Lafarge, a copy of the same shall be submitted to the Ministry and its Regional Office at Bhubaneswar/CPCB/JSPCB.	The water supply is governed by Agreement between Lafarge & TISCO. The agreement is there already for 0.5MGD of water and will be managed within. The copy of the same is being submitted along with this letter as <b>Annexure – 4</b> .  Water consumption is being managed within the prescribed limit.

viii.	The solid waste collected in different collection systems shall be recycled and reutilized in the cement plant itself. Waste lube oil and grease shall be sold to the authorized recyclers / re-processors. Domestic sludge shall be used as manure for green belt development.	No solid waste is generated from the process.  Waste lube oil and grease stored in steel drums at an identified location with concrete floor and sold to authorized recyclers.  Domestic sludge being used as manure for green belt.
ix.	As proposed, green belt shall be developed in 33 % within and around the site to mitigate the impact of air emissions as per the CPCB guidelines.	Green belt maintained as per requirement. However, as a part of improvement activity, tree plantation is being carried out inside the plant, nearby villages and Government schools.
x.	Observations of the State Forest Department regarding likely impact due to expansion of the proposed plant on the surrounding Reserve forests located in SW and NE direction shall be obtained and implementation of recommendations, if any, shall be ensured.	As per the letter obtained from Forest Department, no impact has been observed on surrounding Reserve forests located in SW and NE direction due to the proposed expansion project. Copy of the same is being submitted as <b>Annexure – 5</b> .
xi.	All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) shall be followed and complied.	Recommendations of the Corporate Responsibility on Environmental Protection (CREP) being complied.

xii.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, 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.	The same has been complied with.
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### **B. GENERAL CONDITIONS**

<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Report</b>
1.	The project authority shall adhere to the stipulations made by Jharkhand State Pollution Control Board (JSPCB) and State Government.	All stipulations made by Jharkhand State Pollution Control Board (JSPCB) and State Government being followed.
2.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Complied
3.	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 Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Regular monitoring of ambient noise levels is being carried out to ensure the ambient noise levels below prescribed limits.  Ambient Air Quality and ambient noise levels are being monitored and the Monitoring results of the same have been annexed herewith as <a href="#">Annexure 3</a> .

4.	Proper housekeeping and adequate occupational health programmes shall be taken up.	Proper housekeeping being maintained and adequate occupational health programmes being conducted.
5.	Rainwater harvesting measures shall be adopted for the augmentation of ground water. Besides, company must also harvest the rainwater from the rooftops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Rain water Harvesting System made in Plant for recharging of aquifers and augmentation of ground water table.
6.	The company shall undertake eco-development measures including community welfare measures in the project area.	Necessary community development and welfare is being done through community participation. The company pays special attention to girls education, employment of local youth by providing mason training, contract employees family's health check-up, mobile dispensary, blood donation camps, providing drinking water, support to district administration in rural lighting etc.
7.	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Adhering to the above condition, Environmental Management Cell has been set up which is working effectively.

8.	As proposed, Rs. 525.00 Lakhs and Rs. 35.00 Lakhs/annum shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Complied
9.	The Regional Office of this Ministry at Bhubaneswar / CPCB / JSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Compliance report is being submitted to all locations regularly.
10.	The 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.	As this was an expansion project there is no significant land development work, the expansion is done within the existing premises. Financial closure and Final approval of the project is being submitted as <b>Annexure – 6.</b>



11.	<p>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 Jharkhand State Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This should 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 shall be forwarded to the Regional office at Bhubaneswar.</p>	<p>We had already published the accordance of Environmental Clearance in two local newspapers and a copy of the same has been submitted along with the first half yearly compliance report.</p> <p>Copy of same is being attached as <a href="#">Annexure - 7</a>.</p>
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Point wise reply of Conditions Stipulated in Environmental Clearance Letter No. J-11011/638/2008- IA.II (I) dated 19<sup>th</sup> December, 2008; as amended on 16.03.2016 issued from MoEF & CC, New Delhi for Amendment in Environmental Clearance for change of Product Mix without changing overall volume at Jojobera Cement Plant, Village Jojobera. P.O. Rahargora, Jamshedpur, Jharkhand by M/s. Nuvoco Vistas Corp. Ltd.

S. No.	Conditions	Reply
2.0	It has been noted that Environmental Clearance for the project of 4.6 MTPA standalone Grinding unit at Rahargora, Jamshedpur Dist., Jharkhand by M/S Nuvoco Vistas Corp. Ltd was accorded by the Ministry vide letter of even number dated 19.12.2008, The clearance was granted to produce 3.2 MTPA of Portland Slag Cement (PSC) and 1.4 MTPA of Portland Pozzolona Cement (PPC) with overall cement production capacity of 4.6 MTPA.	Noted and agreed
3.0	It has been explained that, as part of waste utilisation, keeping in view the availability of slag from steel plant and also market conditions Lafarge India Limited proposes to increase PSC production from 3.2 MTPA to 4.0 MTPA (max.) and reduce PPC production from 1.4 MTPA to 1.0 MTPA (max.) with overall production at 4.6 MTPA.	Complied
4.0	It has been mentioned that change in product mix will result in following advantages :	Complied
4 i)	Addition of slag to an extent of 45 % will result in decrease of clinker consumption to an extent of 45 %. When PSC production increases from 3.2 to 4.0 MTPA, slag (waste) consumption will increase from 1.90 MTPA to 2.40 MTPA thus clinker of about 0.5 MTPA is saved.	Complied
4 ii)	Saving of clinker of 0.50 MTPA will be directly result in saving of 0.075 MTPA of coal	Complied
4 iii)	Saving of Clinker and coal, will result in CO2 gas (green house gas) generation of about 0.40 MTPA.	

4 iv)	No additional / change of machinery is involved	Complied														
4 v)	No capital cost is involved	Complied														
5.0	<p>In view of the advantages, as mentioned above it has been requested to issue amendment for environmental clearance for change in product mix as below:</p> <table border="1"> <thead> <tr> <th rowspan="2">S. No.</th> <th colspan="2">Million Tons per Annum</th> </tr> <tr> <th>Present production</th> <th>Proposed Change of product mix</th> </tr> </thead> <tbody> <tr> <td>PSC</td> <td>3.2</td> <td>4.0 (max.)</td> </tr> <tr> <td>PPC</td> <td>1.4</td> <td>1.0 (max.)</td> </tr> <tr> <td>Total</td> <td>4.6</td> <td>Overall production will not cross 4.6 MPTA</td> </tr> </tbody> </table>	S. No.	Million Tons per Annum		Present production	Proposed Change of product mix	PSC	3.2	4.0 (max.)	PPC	1.4	1.0 (max.)	Total	4.6	Overall production will not cross 4.6 MPTA	Complied
S. No.	Million Tons per Annum															
	Present production	Proposed Change of product mix														
PSC	3.2	4.0 (max.)														
PPC	1.4	1.0 (max.)														
Total	4.6	Overall production will not cross 4.6 MPTA														
6.0	The above project was considered by the Expert Appraisal Committee (Industry – I) during its 35 <sup>th</sup> meeting held on 26 <sup>th</sup> -27 <sup>th</sup> March, 2015 and 47 <sup>th</sup> meeting held on 3 <sup>rd</sup> -4 <sup>th</sup> September, 2015 and recommended the proposal for amendment in the Environmental Clearance.															
7.0	The Ministry of Environment, Forest and Climate change accepted the recommendation of EAC (I) and hereby decided to accord amendment in Environmental Clearance letter No. J-11011/638/2008-IA.II(I) dated 19 <sup>th</sup> December 2008 for production of 4 MTPA (max.) of Portland Pozzolona Cement and the overall production in any case should not exceed 4.6 MTPA.	Agreed and thanked for the clearance														
8.0	The company shall obtain fresh Environmental Clearance in case of any change in the scope of the project.	Complied														

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**Annexure - 1**

Nuvoco Vistas Corp. Ltd.

JOJOBERA CEMENT PLANT

STACK MONITORING RESULTS FOR APRIL 2020 to SEPTEMBER 2020

Sl.No.	PATICULARS OF		Apr'20	May'20	June'20	July'20	Aug'20	Sept'20
	BAG	STACK						
1	550BF6	Slag Grinding	Plant under Lockdown as directed by Govt.Of India due to covid-19		16.49	15.53	8.97	16.25
2	551BF6	Slag Grinding			19.81	14.5	7.58	15.35
3	570BF1	Clinker Grinding			15.55	22.97	13.35	25.61
4	456DC98	Vertical Roller Mill			12.38	14.48	15.02	15.95
5	613DC14	Coal Mill			4.23	4.31	4.02	4.38

**Annexure - 2**

**Nuvoco Vistas Corp. Ltd.  
JOJOBERA CEMENT PLANT  
AMBIENT AIR QUALITY REPORT OF APRIL' 2020 to SEPTEMBER' 2020**

**Apr'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	Plant under Lockdown as directed by Govt.of India due to Covid 19.		
2	PM 2.5			
3	Sulphur Dioxide(SO <sub>2</sub> )			
4	Nitrogen Dioxide(NO <sub>2</sub> )			

**May'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	Plant under Lockdown as directed by Govt.of India due to Covid 19.		
2	PM 2.5			
3	Sulphur Dioxide(SO <sub>2</sub> )			
4	Nitrogen Dioxide(NO <sub>2</sub> )			

**June'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	18.74	28.41	NA
2	PM 2.5	12.53	17.34	NA
3	Sulphur Dioxide(SO <sub>2</sub> )	NA	NA	62.17
4	Nitrogen Dioxide(NO <sub>2</sub> )	NA	NA	11.32

**July'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	17.05	61.35	NA
2	PM 2.5	15.56	21.78	NA
3	Sulphur Dioxide(SO <sub>2</sub> )	NA	NA	67.13
4	Nitrogen Dioxide(NO <sub>2</sub> )	NA	NA	6.68

**Aug'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	30.25	42.07	NA
2	PM 2.5	20.15	27.37	NA
3	Sulphur Dioxide(SO <sub>2</sub> )	NA	NA	76.52
4	Nitrogen Dioxide(NO <sub>2</sub> )	NA	NA	6.48

**Sept'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	73.24	26.29	NA
2	PM 2.5	22.19	13.41	NA
3	Sulphur Dioxide(SO <sub>2</sub> )	NA	NA	63.45
4	Nitrogen Dioxide(NO <sub>2</sub> )	NA	NA	6.4

**ANNEXURE - 3**

**Nuvoco Vistas Corp. Ltd.  
JOJOBERA CEMENT PLANT  
NOISE MONITORING REPORT OF APRIL'2019 to SEPT'2019**

<b>LOCATION</b>		<b>Apr'19</b>	<b>May'19</b>	<b>June'19</b>	<b>July'19</b>	<b>Aug'19</b>	<b>Sept'19</b>
<b>TIME OFFICE</b>	9:00 AM	68.2	70.8	70.9	60.8	66.7	67.4
	10.30PM	65.4	68.9	66.7	57.1	62.0	64.1
<b>GYPSUM YARD</b>	9:00 AM	69.4	70.4	72.0	66.5	69.9	69.6
	10.30PM	66.3	69.1	66.3	60.8	65.0	66.3
<b>RAILWAY GATE</b>	9:00 AM	67.5	71.4	71.0	71.3	69.3	70.5
	10.30PM	64.0	67.7	66.0	67.0	64.9	66.0

To,

The Member Secretary  
State Level Environment Impact Assessment Authority, Jharkhand  
Nursery Complex, Near Dhurwa Bus Stand,  
P.O+P.S-Dhurwa, Ranchi, Jharkhand-834 004

Sub.: Half yearly Environmental Compliance Report.

Ref.: SEIAA, Jharkhand Environmental Clearance Letter No: EC/ SEIAA  
/2016-17 / 2001/ 2017/99 dated 08.05.2018

Dear Sir,

This has reference to the above subject and SEIAA, Jharkhand Letter No. EC/SEIAA/2016-17/2001/2017/99 dated 08.05.2018 Cited above, we hereby submit the Half yearly Compliance Report for the period of April'19 to Sept'19 as per Environmental Clearance letter issued by SEIAA , Jharkhand for Expansion of Cement Grinding Unit (4.6 MTPA to 6.6 MTPA) at Jojobera Cement Plant, Village Jojobera. P.O. Rahargora, Jamshedpur (Jharkhand) by M/s. Nuvoco Vistas Corp. Ltd.

This is for your kind consideration and record.

Thanking you & with regards,

For Nuvoco Vistas Corp. Ltd.



(Manoj Kumar Agrawal)  
Sr. Vice President  
Jojobera Cement Plant

Encl.: 1. SEIAA EC Letter Environment Compliance report.  
2. Annexure 1 - Stack monitoring report  
3. Annexure 2 - Ambient monitoring report

Copy with enclosures to:

- 1) Regional Officer, Ministry of Environment & Forests, Ranchi
- 2) Jharkhand State Pollution Control Board, Ranchi
- 3) Jharkhand State Pollution Control Board, Adityapur

**Nuvoco Vistas Corp. Ltd.**

Jojobera Cement Plant, PO - Rahargora, Jamshedpur - 831016 (India).

Tel : (91) 657 2277254 / 56 | Fax : (91) 657 2277244 | Website : [www.nuvoco.in](http://www.nuvoco.in) | CIN - U26940MH1999PLC118229

Registered Office : Equinox Business Park, Tower - 3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai - 400070

NUVOCO VISTAS CORP. LTD., JOJOBERA CEMENT PLANT

**4.6 to 6.6 MTPA EC Conditions and Compliance Report**

April'2020 to Sept'2020

A.	SPECIFIC CONDITIONS	Compliance
I.	I. This Environmental Clearance is valid subject to the following condition below — That this project has-	
a.	Obtained all legal rights to operate at concerned place.	Complied
b.	Complied with all existing concerned laws of the land and	Complied
c.	Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.	Complied
II.	The gaseous emissions from various process units .should conform to the , load / mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.	Complied
III.	Cement grinding shall be carried out in closed cement mill, Provision of dust extraction and pollution control systems along with minimum stack height of 45m from G.L. should be provided for control of emission from Slag Mill and Hot Gas Generator. Highly efficient Cyclone separators, Pulse Jet Bag Filters & ID Fan should be provided for Raw Material Handling Section, Ball Mill, Silo and Packing Section, Stack emissions shall be monitored at regular intervals and records maintained. The stack emission should not exceed 30 mg/Nm <sup>3</sup> .	Complied
IV.	Regular monitoring of the ambient air quality shall be carried out in and around the plant and records shall be maintained. All care to be taken to maintain the ambient air quality standards as per GSR 826 (E) dated 16.11.2009. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub> are anticipated in consultation with the SPCB, Data on ambient air quality and stack emission shall be regularly submitted to the SEIAA and the SPCB once in six months.	Complied
V.	The unit shall install Continuous Automatic Ambient Air Quality Monitoring Station (CAAAQMS) for the project.	Complied
VI.	Finished cement should be collected in silo and packaging should be done through pneumatically controlled system. Suction system should be installed at packing section to minimize fugitive emission.	Complied
VII.	All vibrating screens, storage bins will be adequately covered. Covered storage yards shall be provided for raw materials. Closed unloading of raw materials and closed conveyor belt for transportation with bag filter at transfer points should be provided. Suction head should be provided at all transfer points.	Complied
VIII.	Adequate dust suppression and extraction system should be provided in material storage areas, material unloading and transfer points for controlling fugitive emission. Fugitive dust emissions from ball mill and storage areas shall be collected in bag filters and recycled back to the process. Water sprinkling arrangement shall be made in the raw material stock yards and other high dust potential areas.	Complied
IX.	Water required for proposed expansion shall be met from ground water supply as proposed. Groundwater shall be abstracted as per permission of the competent authority as per The Central Ground Water Resources / State Ground Water Resources (Management, Control and Regulation) Act, 2005.	Water required for proposed expansion met from JUSCO water supply and not from ground water. No ground water used for the project.
X.	Process effluent discharge is not permitted. No liquid effluent shall be generated by adoption of dry grinding process.	Complied



XI.	Clinker manufacturing / heating is not permitted under this environmental clearance. Clinker and fly ash shall be stored in the closed silos and gypsum and slag in covered shed.	Complied
XII.	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 / reprocessors only. Hazardous waste generated to be disposed of as per provisions of Hazardous Wastes (Management and Transboundary Movement) Rules, 2016.	Complied
XIII.	Adequate provisions should be made for harvesting rainwater. The harvested water should be used for plantation, firefighting, washing and cleaning etc. Recharging of Groundwater is not permitted.	Complied
XIV.	Green belt shall be developed within the plant premises. At least 33% of the area should be kept for green belt development. At least 12500 (as stated in previous environmental clearance vide no. 89/EN/T-II-1/037/2015 dated 14.01.2016) to be planted and maintained in the greenbelt area of 44 acres. There should not be any removal/destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority.	Green belt maintained. No removal/destruction of vegetative cover both at the establishment as well as the operational stage. Plantation work in progress.
XV.	The overall noise levels in and around the plant area shall be kept well within the standards 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 70 dBA (night time).	Complied
XVI.	Asphalting/concerting 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 PM 10 and PM2.5 such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to norms prescribed by the Central Pollution Control Board in this regard.	Complied
XVII.	Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement, Provision of separate pathway for entry and exit of vehicles should be considered, Vehicles should conform to pollution under control (PUC) norms. Proper housekeeping shall be maintained within the premises.	Complied
xviii.	Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied
xix.	Adequate measures to adopted to ensure industrial safety. Proper fire detection & protection systems to provided to control fire and explosion hazards.	Complied
xx.	All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) guidelines for Cement Plants shall be followed and complied.	Complied
XXI.	The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.	Complied
xxii.	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical break-up shall be prepared and submitted, Implementation of such program shall be ensured accordingly in a time bound manner.	Agreed.
<b>B.</b>	<b>General Condition</b>	
i.	The environmental clearance accorded shall be valid for a period of 7 years for the proposed project.	Agreed.

ii.	Prior Consent to Establish (NOC) for the proposed project must be obtained from JSPCB before Commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.	Complied
iii.	The project proponent shall comply with all the environmental protection measures and safeguards recommended in the ETA / EMP. Further the unit must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply, sanitation program for local school and health care etc.	Complied
iv.	All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.	Complied
v.	Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Environment sanitation should be ensured for the workers.	Complied
vi.	The project proponent should make financial provision in the total of the project for implementation of the environment safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the condition stipulated by the SEIAA, Jharkhand along with the implementation schedule for all the condition stipulated herein. The funds so provided should not be delivered for any other purpose.	Complied
vi.	No further expansion or modification in the plant should be carried out without prior approval of the State Level Environment Impact Assessment Authority, Jharkhand in the case of any changes in the scope of the project, the project would required a fresh appraisal by the SEIAA, Jharkhand.	Complied
viii.	The Jharkhand Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interoperation shall be submitted to the JPCB regularly. A complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority, Jharkhand and Regional office of MoEF & CC, Ranchi.	Complied
ix.	The State Level Environment Impact Assessment Authority, Jharkhand reverse the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (protection) Act. 1986, to ensure effective implementation of the suggested safeguard measures in a time-bund and satisfactory manner.	Agreed.
x.	The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA, Jharkhand and copies of the clearance letters are available with the Jharkhand State Pollution Control Board and may also be seen at Website of the SEIAA, Jharkhand. This should 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.	Complied

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. The criteria pollutant levels namely; PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub> (ambient levels as well as stack emissions) of critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of company in the public domain.	Complied
xii.	The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, Jharkhand, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/project implementation.	We will inform the State Pollution Control Board as well as the SEIAA, Jharkhand, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/project implementation.
xiii.	The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.	Will be complied.

**Annexure - 1**

Nuvoco Vistas Corp. Ltd.

JOJOBERA CEMENT PLANT

STACK MONITORING RESULTS FOR APRIL 2020 to SEPTEMBER 2020

Sl.No.	PATICULARS OF		Apr'20	May'20	June'20	July'20	Aug'20	Sept'20
	BAG	STACK						
1	550BF6	Slag Grinding	Plant under Lockdown as directed by Govt.Of India due to covid-19		16.49	15.53	8.97	16.25
2	551BF6	Slag Grinding			19.81	14.5	7.58	15.35
3	570BF1	Clinker Grinding			15.55	22.97	13.35	25.61
4	456DC98	Vertical Roller Mill			12.38	14.48	15.02	15.95
5	613DC14	Coal Mill			4.23	4.31	4.02	4.38

**Annexure - 2**

**Nuvoco Vistas Corp. Ltd.  
JOJOBERA CEMENT PLANT  
AMBIENT AIR QUALITY REPORT OF APRIL' 2020 to SEPTEMBER' 2020**

**Apr'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	Plant under Lockdown as directed by Govt.of India due to Covid 19.		
2	PM 2.5			
3	Sulphur Dioxide(SO <sub>2</sub> )			
4	Nitrogen Dioxide(NO <sub>2</sub> )			

**May'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	Plant under Lockdown as directed by Govt.of India due to Covid 19.		
2	PM 2.5			
3	Sulphur Dioxide(SO <sub>2</sub> )			
4	Nitrogen Dioxide(NO <sub>2</sub> )			

**June'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	18.74	28.41	NA
2	PM 2.5	12.53	17.34	NA
3	Sulphur Dioxide(SO <sub>2</sub> )	NA	NA	62.17
4	Nitrogen Dioxide(NO <sub>2</sub> )	NA	NA	11.32

**July'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	17.05	61.35	NA
2	PM 2.5	15.56	21.78	NA
3	Sulphur Dioxide(SO <sub>2</sub> )	NA	NA	67.13
4	Nitrogen Dioxide(NO <sub>2</sub> )	NA	NA	6.68

**Aug'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	30.25	42.07	NA
2	PM 2.5	20.15	27.37	NA
3	Sulphur Dioxide(SO <sub>2</sub> )	NA	NA	76.52
4	Nitrogen Dioxide(NO <sub>2</sub> )	NA	NA	6.48

**Sept'20**

S.NO.	PARAMETER	Gypsum Yard	Railway Gate	Time Office
1	PM 10	73.24	26.29	NA
2	PM 2.5	22.19	13.41	NA
3	Sulphur Dioxide(SO <sub>2</sub> )	NA	NA	63.45
4	Nitrogen Dioxide(NO <sub>2</sub> )	NA	NA	6.4