

**ARASMETA CEMENT PLANT OF M/S NUVOCO VISTAS CORP.LTD.
VILLAGE ARASMETA, PO- GOPALNAGAR, DISTT.
JANJGIR - CHAMPA, CHHATTISGARH**

CONSENT TO OPERATE

PLANT: - AIR Consent Letter No. 3454/TS/CECB/2018 dated 23/07/2018 for Cement 22.4 Lacs MT/Annum
Water Consent Letter No. 3452/TS/CECB/2018 dated 23/07/2018 for Cement 22.4 Lacs MT/Annum

D.G Set: - AIR Consent Letter No. 3386/TS/CECB/2016 date 09/09/2016 for 3 x 6 = 18 MW.
Water Consent Letter No. 3384/TS/CECB/2016 date 09/09/2016 for 3 x 6 = 18 MW

Monitoring Data For the Month of June '2019

A. Stack Emission – Consent Condition for Particulate matter -Max. 30 mg/Nm³

S.N.	Stack Attached to	PCEs	Particulate Matter (Mg/Nm ³)
1	KILN & RAW MILL -1	Bag Filter	22.9
2	PC & RAW MILL -2	Bag Filter	23.4
3	COOLER	ESP	23.6
4	COAL MILL -1	Bag Filter	21.9
5	COAL MILL -2	Bag Filter	23.9
6	CEMENT MILL -1	Bag Filter -1	24.7
7	CEMENT MILL -1	Bag Filter -2	22.5
8	CEMENT MILL -2	ESP	22.4
9	CEMENT MILL -2	Bag Filter	23.7
10	DG-3	-	NR
11	DG-4	-	NR
12	DG-5	-	NR

SD-Shut down, NR- Not running ND-Not done

B. Ambient Air Quality –

Pollutants	Ambient Air Quality (Monthly Average)				
	LOCATION				
	NAAQ STD.	Near Wagon Tippler - East	Near Main Security Gate - West	Near Rail way TXR Office -North	Near Old Truck Tippler (Near Petrol Pump) - South
PM10 (µg/m3)	100	55.0	42.0	30.0	49.2
PM2.5 (µg/m3)	60	30.0	24.3	15.2	32.4
Sulphur Dioxide SO2 (µg/m3)	80	16.1	14.6	10.1	15.2
Nitrogen Dioxide NO2 (µg/m3)	80	24.2	22.1	18.2	21.0
Carbon Monoxide CO (mg/m3)	4	0.28	0.3	0.21	0.27

C- Discharge Water Quality:

Cement plant maintained Zero Discharge, for cooling water close circuit arrangement, Plant domestic water discharge through Sock pit. Sewage Treatment Plant installed in colony for treatment of Domestic wastewater, Treated water used for Horticulture purpose.

Quality of Treated water of STP:

S.N.	Pollutants	Monthly average Results	CECB Standard (Max)
1	pH	7.3	5.5 - 9.0
2	Suspended Solids	55	100 mg/Ltr.
3	Chemical Oxygen Demand (COD)	24	250 mg/Ltr
4	Biological Oxygen Demand (BOD)	70	30 mg/Ltr
5	Oil & Grease	<1	10 mg/Ltr

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)

(Handwritten Signature)
(Faruk Kumar)

Asst. Vice President -ACP

Nuvoco Vistas Corp. Ltd.

Arasmeta Cement Plant, P.O. Gopalnagar, Dist. Janjgir – Champa, Chhattisgarh – 495663 (India)

Website: www.nuvoco.in | CIN. U26940MH1999PLC118229

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



**ARASMETA LIMESTONE MINES OF M/S NUVOCO VISTAS CORP.LTD
VILLAGE ARASMETA, DISTT. JANJGIR - CHAMPA, CHHATTISGARH**

Environment clearance

Letter No. J11015/64/2003- IA, II (M) GOI, and MoEF dated 18/7/2005 for production of 2.7 MTPA for Arasmeta Limestone mine.

CONSENT TO OPERATE

Air Consent Letter NO. 3357/TS/CECB/2017 Date 21/09/2017 for 2.7 MTPA

Water Consent Letter NO. 3355/TS/CECB/2017 Date 21/09/2017 for 2.7 MTPA

Monitoring Data for the Month June '2019

KEY PARAMETERS									
A) STATIC INFORMATION									
1	MINE LEASE AREA	:	499.987 Hect.						
2	PRODUCTION	:	2.7 MTPA						
3	LEASE DURATION	:	31/03/ 2030						
4	DATE OF COMMENCEMENT OF WORK	:	Mines operated since 1982						
B) DYNAMIC PARAMETERS									
(i) Ambient Air Quality									
		Ambient Air Quality Monitoring Station							
Parameters	NAAQ STD	Pit Boundary (East)		Mines office (West)		Colony (North)		Arasmeta village (South)	
		I	II	I	II	I	II	I	II
PM10	100µg/m ³	55.2	42.5	49.7	46.2	40.2	46.2	45.0	41.5
PM2.5	60 µg/m ³	28.4	24.6	25.3	27.6	21	27.6	32.0	30.0
Sulphur Dioxide SO ₂	80(µg/m ³)	14.3	14.8	12.4	13.2	13.9	13.2	15.1	12.2
Nitrogen Dioxide NO ₂	80(µg/m ³)	23.4	23.1	20.8	24.1	19.6	24.1	24.6	23.2
Carbon Monoxide CO	4 mg/m ³	0.30	0.28	0.27	0.25	0.29	0.25	0.34	0.26
BDL - Below Detection Limit-									
(ii)	Vibration (PPV)	1.57 mm / Sec at the distance of 300 meter from blast site.							
(iii) Quality of Discharge Water:- Zero Discharge Water From Mines									
1	Total Dissolved Solid (TDS)	:	-						
2	Dissolved Oxygen(DO)	:	-						
3	PH	:	-						
4	Total Suspended solids (TSS)	:	-						
(iv) Greenbelt/Plantation									
1	Nos. of Trees planted till date -	1028807 Around Plant, Colony & Included Arasmeta Mines & Harihar project (up to Oct 2018)							
2	Calendar year wise (progressive)	2017				2018			
		8056				7098 (Plant & Mines)			

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)

(Signature)
13/07

(Tarun Kumar)
Asst. Vice President -ACP

Nuvoco Vistas Corp. Ltd.

Arasmeta Cement Plant, P.O. Gopalnagar, Dist. Janjgir – Champa, Chhattisgarh – 495663 (India)

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**KIRARI LIMESTONE MINES OF M/S NUVOCO VISTAS CORP.LTD
VILLAGE KIRARI - CHORBHATTI
DISTT. JANJGIR - CHAMPA, CHHATTISGARH**

Environment clearance

Environment clearance. Letter No. J11015/23/2002- IA, II (M) GOI, and MoEF dated 9/12/2003 for production of 0.36 MTPA for Kirari Limestone mine.

CONSENT TO OPERATE

Air Consent Letter NO. 2290/RO/TS/CECB/2018 Date 04/08/2018 for 0.36 MTPA
Water Consent Letter NO. 2289/RO/TS/CECB/2018 Date 04/08/2018 for 0.36 MTPA

Monitoring Data For the Month of JUNE '2019

KEY PARAMETERS									
A) STATIC INFORMATION									
1	MINE LEASE AREA	:	167.048 Hect.						
2	PRODUCTION	:	0.36 MTPA						
3	LEASE DURATION	:	25/08/2050						
4.	DATE OF COMMENCEMENT OF WORK	:	Mines operated since 2006						
B) DYNAMIC PARAMETERS									
(i) Ambient Air Quality									
		Ambient Air Quality Monitoring Station							
Parameters	NAAQ STD	Chorbatti (East)		Banhill (West)		Mines office (North)		Kirari (South)	
		I	II	I	II	I	II	I	II
PM10	100µg/m3	39.6	51.2	50.0	46.2	48.2	55.2	41.2	45.2
PM2.5	60 µg/m3	18.0	35.8	36.2	27.0	29.6	40.0	30.0	32.0
Sulphur Dioxide SO2	80(µg/m3	13.6	15.6	16.0	11.9	13.4	16.2	14.3	15.5
Nitrogen Dioxide NO2	80(µg/m3	19.8	22.3	23.1	20.1	18.2	24.2	20.1	22.3
Carbon Monoxide CO	4 mg/m3	0.29	0.29	0.24	0.23	0.32	0.34	0.26	0.29
(ii) Vibration (PPV) 1.81 mm / Sec at the distance of 200 meter from blast site.									
(iii) Quality of Discharge Water:- Zero Discharge Water From Mines									
1	Total Dissolved Solid (TDS)	:	-						
2	Dissolved Oxygen(DO)	:	-						
3	PH	:	-						
4	Total Suspended solids (TSS)	:	-						
(iv) Greenbelt/Plantation									
1	Nos of Trees planted till date -	:	45360 nos. Plantation at Kirari Mines (up to 2018)						
2	Calendar year wise (progressive)	:	2017		2018				
			6865 Nos.		3700 Nos.				

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)

Stony
Tareel
13/07
(Tarun Kumar)
Asst. Vice President -ACP

Nuvoco Vistas Corp. Ltd.

Arasmeta Cement Plant, P.O. Gopalnagar, Dist. Janjgir – Champa, Chhattisgarh – 495663 (India)

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**CHILHATI LIMESTONE MINES OF M/S NUVOCO VISTAS CORP.LTD
VILLAGE CHILHATI
DISTT. BILASPUR, CHHATTISGARH**

Environment clearance

Environment clearance. Letter No. J-11015/210/2010-IA.II (M) GOI and MoEF dated 18/9/2014 for production of 4.0 MTPA for Chilhati Limestone mine.

CONSENT TO OPERATE

Air Consent Letter NO. 1009/TS/CECB/2018 Date 18/04/2018 for 1.38 MTPA
Water Consent Letter NO. 1007/TS/CECB/2018 Date 18/04/2018 for 1.38 MTPA

Monitoring Data for the Month of JUNE ' 2019

KEY PARAMETERS												
A) STATIC INFORMATION												
1	MINE LEASE AREA	:	1085.365 Hect.									
2	PRODUCTION	:	1.38 MTPA									
3	LEASE DURATION	:	2065									
4.	DATE OF COMMENCEMENT OF WORK	:	Mines operated since 19 th April 2017									
B) DYNAMIC PARAMETERS												
(i) Ambient Air Quality												
Ambient Air Quality Monitoring Station												
Parameters ($\mu\text{g}/\text{m}^3$)	Gonadih		Chilhati		Jaitpuri-Semradih		Kokri-Gobari		Sonadih		Beiha	
	I	II	I	II	I	II	I	II	I	II	I	II
PM10	42.7	39.2	46.4	40.1	37.4	44.3	43.4	41.2	50.0	36.2	44.6	40.0
PM2.5	21.1	19.0	21.4	22.1	18.0	26.1	29.2	21.2	30.0	15.5	35.2	17.0
Sulphur Dioxide SO ₂	12.3	9.9	12.4	12.7	10.1	12.1	12.3	12.7	15.9	9.0	14.6	12.0
Nitrogen Dioxide NO ₂	19.4	17.2	20.3	20.7	18.0	24.0	19.8	21.2	21.3	22.0	24.3	19.0
Carbon Monoxide CO	0.25	0.23	0.29	0.24	0.22	0.24	0.27	0.20	0.28	0.23	0.32	0.21
NAAQ STD- PM10-100 $\mu\text{g}/\text{m}^3$, PM2.5-60 $\mu\text{g}/\text{m}^3$ SO₂ & NO₂-80 $\mu\text{g}/\text{m}^3$ and CO-4 mg/m³												
(ii) Vibration (PPV) Nil / Sec at the distance of 200 meter from blast site.												
(iii) Quality of Discharge Water:- Zero Discharge Water From Mines												
1	Total Dissolved Solid (TDS)	:	-									
2	Dissolved Oxygen(DO)	:	-									
3	PH	:	-									
4	Total Suspended solids (TSS)	:	-									
(iv) Greenbelt/Plantation												
1	Nos. of Trees planted till date -	:	10785 nos. Plantation at Chilhati Mines (up to 2017)									
2	Calendar year wise (progressive)	:	2017					2018				
		:	3800					6985				

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)

Steel
8/3/07
Shady (Tarun Kumar)
Asst. Vice President -ACP

Nuvoco Vistas Corp. Ltd.

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