

**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 & Water Consent Letter No. 3666/TS/CECB/2020 date 21/07/2020 for 3 x 6 = 18 MW.

Monitoring Data For the Month of July`2020

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	15.3
2	PC & RAW MILL -2	Bag Filter	14.9
3	COOLER	ESP	17.1
4	COAL MILL -1	Bag Filter	14.4
5	COAL MILL -2	Bag Filter	17.0
6	CEMENT MILL -1	Bag Filter -1	17.0
7	CEMENT MILL -1	Bag Filter -2	17.1
8	CEMENT MILL -2	ESP	27.4
9	CEMENT MILL -2	Bag Filter	20.3
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	41.8	43.6	42.5	38.7
PM2. 5 (µg/m3)	60	18.1	20.4	21.6	17.5
Sulphur Dioxide SO2 (µg/m3)	80	7.4	8.1	8.6	7.5
Nitrogen Dioxide NO2 (µg/m3)	80	14.5	15.8	14.7	13.6
Carbon Monoxide CO (mg/m3)	4	0.25	0.22	0.24	0.2

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	7.5	5.5 - 9.0
2	Suspended Solids	74	100 mg/Ltr.
3	Chemical Oxygen Demand (COD)	87	250 mg/Ltr
4	Biological Oxygen Demand (BOD)	28	30 mg/Ltr
5	Oil & Grease	<1	10 mg/Ltr

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)


(Tarun 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

**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 July` 2020

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	Mines office (North)		Kirari (South)		Banhil (West)		Chorbatti (East))	
			I	II	I	II	I	II	I	II
	PM10	100µg/m3	47.1	44.9	46.3	42.5	45.8	44.1	43.2	40.8
	PM2. 5	60 µg/m3	27.6	23.5	25.1	20.4	24.9	23.8	21.8	20.5
	Sulphur Dioxide SO2	80(µg/m3)	7.5	7.2	5.8	5.5	6.2	6.3	5.7	5.4
	Nitrogen Dioxide NO2	80(µg/m3)	13.5	12.9	12.4	10.8	11.8	12.5	11.6	11.2
	Carbon Monoxide CO	4 mg/m3	0.24	0.22	0.18	0.2	0.2	0.19	0.19	0.17
(ii)	Vibration (PPV)	2.01/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 -		47360 nos. Plantation at Kirari Mines (Upto Nov 2019)							
2	Calendar year wise (progressive)		2018				2019			
			3700 Nos.				2000 Nos.			

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)

(Signature)
(Tarun Kumar)
Asst. Vice President -ACP

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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 July 20

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		Belha			
	I	II	I	II	I	II	I	II	I	II	I	II		
PM10	47.6	46.4	49.8	45.5	45.7	47.2	44.3	42.8	48.4	46.9	43.1	45.7		
PM2.5	20.6	25.6	26.5	22.7	24.1	26.9	19.8	20.1	25.6	25.8	18.9	23.6		
Sulphur Dioxide SO ₂	5.8	6.5	6.4	6.1	5.3	5.9	6.8	5.6	5.9	6.2	6.1	6.7		
Nitrogen Dioxide NO ₂	11.6	10.8	13.7	11.6	12.4	11.8	11.6	10.4	10.8	12.1	12.3	11.5		
Carbon Monoxide CO	0.19	0.22	0.21	0.18	0.18	0.21	0.22	0.23	0.23	0.19	0.2	0.22		
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 -		13163 nos. Plantation at Chilhati Mines											
2	Calendar year wise (progressive)		2018					2019						
			6985					2378						

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(Signature)
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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 July` 2020

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

Parameters	NAAQ STD	Ambient Air Quality Monitoring Station							
		Pit Boundary (East)		Mines office (West)		Colony (North)		Arasmeta village (South)	
		I	II	I	II	I	II	I	II
PM10	100µg/m3	48.5	47.7	47.4	48.3	46.2	44.2	45.1	43.1
PM2.5	60 µg/m3	25.6	28.2	24.3	26.4	22.9	23.1	21.7	21.3
Sulphur Dioxide SO2	80(µg/m3	8.3	6.9	6.8	6.4	7.1	7.2	7.3	7
Nitrogen Dioxide NO2	80(µg/m3	14.8	12.3	12.7	11.5	12.2	13.2	11.4	12.7
Carbon Monoxide CO	4 mg/m3	0.23	0.24	0.24	0.2	0.2	0.22	0.19	0.21

BDL - Below Detection Limit-

(ii) Vibration (PPV) 1.87/ 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 -	1039857 Around Plant, Colony & Included Arasmeta Mines & Harihar project (up to Nov 2019)				
2	Calendar year wise (progressive)	<table border="1"> <tr> <td>2018</td> <td>2019</td> </tr> <tr> <td>7098 (Plant & Mines)</td> <td>5000</td> </tr> </table>	2018	2019	7098 (Plant & Mines)	5000
2018	2019					
7098 (Plant & Mines)	5000					

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