

**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 Nov`2020**

**A. Stack Emission – Consent Condition for Particulate matter -Max. 30 mg/Nm<sup>3</sup>**

S.N.	Stack Attached to	PCEs	Particulate Matter (Mg/Nm <sup>3</sup> )
1	KILN & RAW MILL -1	Bag Filter	16.8
2	PC & RAW MILL -2	Bag Filter	15.7
3	COOLER	ESP	ND
4	COAL MILL -1	Bag Filter	14.5
5	COAL MILL -2	Bag Filter	15.7
6	CEMENT MILL -1	Bag Filter -1	18.1
7	CEMENT MILL -1	Bag Filter -2	17.8
8	CEMENT MILL -2	ESP	16.0
9	CEMENT MILL -2	Bag Filter	14.4
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	72.5	70.4	60.5	65.7
PM2.5 (µg/m3)	60	42.3	40.5	31.9	37.6
Sulphur Dioxide SO2 (µg/m3)	80	11.8	13.1	13.2	12.6
Nitrogen Dioxide NO2 (µg/m3)	80	18.2	17.3	17.9	16.5
Carbon Monoxide CO (mg/m3)	4	0.25	0.27	0.23	0.26

**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	7.4	5.5 - 9.0
2	Suspended Solids	72	100 mg/Ltr.
3	Chemical Oxygen Demand (COD)	60	250 mg/Ltr
4	Biological Oxygen Demand (BOD)	25	30 mg/Ltr
5	Oil & Grease	<1	10 mg/Ltr

**For Nuvoco Vistas Corp.Ltd**  
(Arasmeta Cement Plant)

*(Signature)*  
(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](http://www.nuvoco.in) | CIN. U26940MH1999PLC118229

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

**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 Oct 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 <sup>th</sup> April 2017											
B) DYNAMIC PARAMETERS																
<b>(i) Ambient Air Quality</b>																
Ambient Air Quality Monitoring Station																
Parameters (µg/m <sup>3</sup> )	Mines office		Drilling Area		Haulage Road		Loading Area		Chilhathi Village		Jaitpuri Village		Semradih Village		Pataidih Village	
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
PM10	62.5	60.8	70.1	66.3	68.2	64.7	71.4	68.5	60.5	57.9	58.3	55.6	55.6	53.9	57.4	55.5
PM2.5	35.6	34.1	40.5	39.2	38.4	35.4	41.2	37.7	34.2	33.2	32.1	31.8	30.5	28.7	33.6	32.2
Sulphur Dioxide SO <sub>2</sub>	9.1	8.6	8.6	8.4	8.1	9.3	9.3	8.9	9.1	7.5	8.2	7.2	7.5	8.1	8.3	7.8
Nitrogen Dioxide NO <sub>2</sub>	14.5	13.9	13.2	12.7	13.7	13.6	12.9	12.4	11.8	13.3	12.7	11.7	11.2	12.2	12.3	11.5
Carbon Monoxide CO	0.24	0.25	0.21	0.23	0.22	0.21	0.25	0.22	0.2	0.18	0.19	0.21	0.18	0.19	0.22	0.2
<b>NAAQ STD- PM10-100 µg/m<sup>3</sup>, PM2.5-60 µg/m<sup>3</sup> SO<sub>2</sub> &amp; NO<sub>2</sub>-80 µg/m<sup>3</sup> and CO-4 mg/m<sup>3</sup></b>																
<b>(ii) Vibration (PPV)</b> Nil / Sec at the distance of 200 meter from blast site.																
<b>(iii) Quality of Discharge Water:- Zero Discharge Water From Mines</b>																
1	Total Dissolved Solid (TDS)		:		-											
2	Dissolved Oxygen(DO)		:		-											
3	PH		:		-											
4	Total Suspended solids (TSS)		:		-											
<b>(iv) Greenbelt/Plantation</b>																
1	Nos. of Trees planted till date -		16963 nos. Plantation at Chilhati Mines													
2	Calendar year wise (progressive)		2019						2020							
			2378						3800							

ND – Not done (Due to Mines not in operation)

**For Nuvoco Vistas Corp.Ltd**  
 (Arasmeta Cement Plant)

*Tarun Kumar*  
 18/12

(Tarun Kumar)  
 Asst. Vice President –ACP

**Nuvoco Vistas Corp. Ltd.**

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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 Nov` 2020**

KEY PARAMETERS										
<b>A ) STATIC INFORMATION</b>										
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>B) DYNAMIC PARAMETERS</b>										
(i)	<b>Ambient Air Quality</b>									
			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	61.2	59.3	55.3	53.2	58.6	55.1	56.7	53.9
	PM2. 5	60 µg/m3	39.1	36.8	32.8	33.7	36.4	35.6	34.2	32.9
	Sulphur Dioxide SO2	80(µg/m3	11.6	10.5	10.1	9.3	9.7	8.9	9.3	8.4
	Nitrogen Dioxide NO2	80(µg/m3	13.5	12.6	12.9	11.9	11.4	12.7	12.8	11.4
	Carbon Monoxide CO	4 mg/m3	0.21	0.22	0.23	0.23	0.24	0.24	0.22	0.25
(ii)	<b>Vibration (PPV)</b>	ND /sec- at the distance of 200 meter from blast site.								
(iii)	<b>Quality of Discharge Water:- Zero Discharge Water From Mines</b>									
1	Total Dissolved Solid (TDS)	:	-							
2	Dissolved Oxygen(DO)	:	-							
3	PH	:	-							
4	Total Suspended solids (TSS)	:	-							
(iv)	<b>Greenbelt/Plantation</b>									
1	Nos of Trees planted till date -		49860 nos. Plantation at Kirari Mines (Upto Sep 2020)							
2	Calendar year wise (progressive)		2019				2020			
			2000 Nos.				2500 Nos.			

**For Nuvoco Vistas Corp.Ltd**  
(Arasmeta Cement Plant)

*Tareel*  
18/11/20

(Tarun Kumar)  
Asst. Vice President -ACP

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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 Nov` 2020**

KEY PARAMETERS									
<b>A ) STATIC INFORMATION</b>									
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>B) DYNAMIC PARAMETERS</b>									
<b>(i) Ambient Air Quality</b>									
		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 <sup>3</sup>	65.3	62.7	62.8	59.1	58.9	57.6	55.1	53.2
PM2.5	60 µg/m <sup>3</sup>	40.1	38.6	38.3	36.4	34.1	33.2	33.5	31.8
Sulphur Dioxide SO <sub>2</sub>	80(µg/m <sup>3</sup>	12.3	11.9	11.2	10.8	11.7	11.1	9.8	10.6
Nitrogen Dioxide NO <sub>2</sub>	80(µg/m <sup>3</sup>	15.1	14.9	17.3	16.2	16.2	14.6	13.9	12.8
Carbon Monoxide CO	4 mg/m <sup>3</sup>	0.29	0.25	0.22	0.19	0.26	0.23	0.19	0.2
BDL - Below Detection Limit-									
<b>(ii)</b>	<b>Vibration (PPV)</b>	2.18/ Sec at the distance of 300 meter from blast site.							
<b>(iii)</b>	<b>Quality of Discharge Water:- Zero Discharge Water From Mines</b>								
1	Total Dissolved Solid (TDS)	:	-						
2	Dissolved Oxygen(DO)	:	-						
3	PH	:	-						
4	Total Suspended solids (TSS)	:	-						
<b>(iv) Greenbelt/Plantation</b>									
1	Nos. of Trees planted till date -	1044897 Around Plant, Colony & Included Arasmeta Mines & Harihar project (up to Sep 2020)							
2	Calendar year wise (progressive)	2019				2020			
		5000				5000			

**For Nuvoco Vistas Corp.Ltd**  
(Arasmeta Cement Plant)

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

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