

**BHILAI JAYPEE
CEMENT LIMITED**

Date: 04.04.2022
PCB ID: - Cement Plant -14269

To,
Member Secretary
MP Pollution Control Board
Paryavaran Pariser, E-5, Arera colony
Bhopal (MP) -462016

Sub: Submission of Half yearly reports of Bhilai Jaypee Cement Ltd.

Ref: Your letter Consent order No.59&61/TS/MPPCB/2009 dtd.2nd January 2010.

Dear Sir,

As per above subjected letter we are submitting herewith half yearly reports of cement manufacturing unit M/s Bhilai Jaypee Cement Ltd. located at village Babupur, Satna (MP) for the month of Oct -2021 to March-2022 (2021-22) for kind information pl.

Regards,



Yours faithfully
For Bhilai Jaypee Cement Ltd.
Babupur (Satna) MP


P.K.Singh
Vice President (P&QC)

cc:

Director - for kind information Pl.
Regional Office, (WZ)
Ministry of Environment & Forests
Kendriya Paryavaran Bhawan
E-5, Link Road -3,
Ravishankar Nagar, Bhopal (M.P)-462016

Regional Directorate - for kind information pl.
Central Pollution Control Board
Parivesh Bhavan,
Paryavaran Parisar E-5 Arera Colony
Bhopal (M.P) – 462016

Regional Officer - for kind information pl.
MP Pollution Control Board
Rewa Road, Maihar Bi-Pass Road
Satna (MP)-485001



Plant : Post Babupur, Satna (M.P.) Pin - 485112 Ph. : +91 (7672) 280064, 280065, 280066
Regd. Office : Bhilai Township, Bhilai, Durg, Chattisgarh - 490 006
Head Office : 'JA House', 63 Basant Lok, Vasant Vihar, New Delhi - 110 057 (India)
Ph. : +91 (11) 26141540, 26147411 Fax : +91 (11) 26145389, 26143591
BJCL web site: www.bjcl.co.in CIN : U28940CT2007PLC020250
A JV of SAIL & JAIPRAKASH ASSOCIATES LIMITED

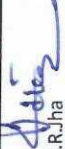


BHILAI JAYPEE CEMENT LIMITED
BABUPUR (SATNA) MP- 485112

AMBIENT AIR QUALITY MONITORING RESULTS OF SIX MONTH FROM : Oct-Mar-2021-22

UNIT: Cement plant & DG set

Date of Sampling	Particulars		SO2 ($\mu\text{g}/\text{M}^3$)	NOX ($\mu\text{g}/\text{M}^3$)	Noise dB (A)		PM 2.5 ($\mu\text{g}/\text{M}^3$)	PM- 10 ($\mu\text{g}/\text{M}^3$)	Remarks
	Side	Place			Day time	Night Time			
Oct - 21	East	Near Substation	8.69	19.38	62.70	51.0	22.56	43.65	
	West	Infront of FH-2	10.26	18.27	60.15	52.4	24.87	41.44	
	North	Near Annapurna	10.95	20.54	64.25	49.4	23.37	45.81	
	South	Near Scrape Yard	9.15	21.29	61.40	50.7	25.14	44.23	
Nov - 21	East	Near Substation	10.73	20.71	71.0	64.4	26.40	47.01	
	West	Infront of FH-2	11.53	18.95	70.7	63.8	28.97	45.08	
	North	Near Annapurna	12.80	22.66	72.4	66.0	27.62	48.58	
	South	Near Scrape Yard	9.59	21.13	69.6	65.2	29.11	46.03	
Dec - 21	East	Near Substation	9.07	17.09	68.85	61.85	30.05	61.51	
	West	Infront of FH-2	7.61	21.92	69.40	64.90	31.84	58.46	
	North	Near Annapurna	8.33	18.22	70.60	60.70	27.42	59.31	
	South	Near Scrape Yard	10.83	19.73	67.20	63.60	28.88	60.15	
Jan - 22	East	Near Substation	10.27	17.93	67.35	64.25	12.52	47.09	
	West	Infront of FH-2	8.26	20.52	70.75	63.30	13.86	45.47	
	North	Near Annapurna	9.69	18.68	69.90	65.00	14.17	43.73	
	South	Near Scrape Yard	11.13	19.30	69.85	62.40	10.86	41.75	
Feb - 22	East	Near Substation	10.25	19.81	67.0	63.8	18.62	70.54	
	West	Infront of FH-2	8.58	18.48	69.7	60.8	17.91	64.54	
	North	Near Annapurna	9.77	20.33	70.9	62.8	20.76	67.77	
	South	Near Scrape Yard	11.09	21.77	68.3	59.7	19.64	69.46	
Mar - 22	East	Near Substation	9.41	20.40	73.2	68.8	28.11	75.60	
	West	Infront of FH-2	8.93	18.97	73.6	68.7	28.47	69.87	
	North	Near Annapurna	9.06	19.59	74.8	67.7	27.63	70.49	
	South	Near Scrape Yard	10.05	20.59	76.3	67.2	30.98	69.36	
	Average	East	9.74	19.22	68.34	62.33	23.04	57.57	
		West	9.19	19.52	69.04	62.30	24.32	54.14	
		North	10.10	20.00	70.46	61.91	23.49	55.95	
		South	10.31	20.63	68.76	61.46	24.10	55.16	
	Minimum	East	8.69	17.09	62.70	51.00	12.52	43.65	
		West	7.61	18.27	60.15	52.40	13.86	41.44	
		North	8.33	18.22	64.25	49.35	14.17	43.73	
		South	9.15	19.30	61.40	50.70	10.86	41.75	
	Maximum	East	10.73	20.71	73.15	68.75	30.05	75.60	
		West	11.53	21.92	73.60	68.65	31.84	69.87	
		North	12.80	22.66	74.80	67.65	27.63	70.49	
		South	11.13	21.77	76.30	67.22	30.98	69.46	


S.R. Jha
Manager (Environment)

BHILAI JAYPEE CEMENT LIMITED

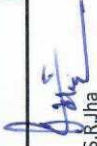
BABUPUR (SATNA) MP- 485112

AMBIENT AIR QUALITY MONITORING DATA OF SIX MONTHLY FROM: Oct-March: 2021-22

UNIT: ISPAT LIMESTONE QUARRY (ML-I&II)

Date of Sampling	Particulars		SO ₂ (µg/M ³)	NOX (µg/M ³)	Noise dB (A)		PM 2.5 (µg/M ³)	PM- 10 (µg/M ³)	Remarks
	Side	Place			Day time	Night Time			
Oct - 21	East	Near Magazine Khamaria village (East)	10.83	18.43	62.30	50.65	23.66	45.09	
	West	Near Mines Office Babupur (West)	13.31	19.12	63.70	49.55	22.97	44.97	
	North	Near Camp Office (North)	7.14	20.00	60.20	52.85	20.44	46.98	
	South	Near Weigh bridge (South)	11.73	16.33	61.00	51.05	19.38	39.17	
Nov - 21	East	Near Magazine Khamaria village (East)	7.89	19.93	70.8	61.0	28.90	50.26	
	West	Near Mines Office Babupur (West)	9.81	18.59	68.9	61.9	29.99	47.62	
	North	Near Camp Office (North)	11.82	20.84	69.8	63.5	27.14	48.49	
	South	Near Weigh bridge (South)	10.47	21.67	71.1	64.4	30.11	46.53	
Dec - 21	East	Near Magazine Khamaria village (East)	10.90	19.60	67.50	63.70	28.93	60.40	
	West	Near Mines Office Babupur (West)	9.05	20.68	69.20	61.35	31.33	58.80	
	North	Near Camp Office (North)	11.45	18.45	70.65	65.10	27.50	56.59	
	South	Near Weigh bridge (South)	12.31	21.59	69.80	64.35	30.94	57.15	
Jan - 22	East	Near Magazine Khamaria village (East)	10.05	21.66	67.80	64.70	13.53	45.68	
	West	Near Mines Office Babupur (West)	12.05	20.50	68.35	61.65	11.41	43.77	
	North	Near Camp Office (North)	9.29	19.84	70.80	63.60	12.58	41.49	
	South	Near Weigh bridge (South)	11.60	18.35	69.10	65.10	10.98	44.38	
Feb - 22	East	Near Magazine Khamaria village (East)	12.13	19.90	68.7	60.9	18.24	59.60	
	West	Near Mines Office Babupur (West)	9.95	18.93	70.8	64.1	22.53	60.62	
	North	Near Camp Office (North)	10.06	21.10	67.8	62.7	19.77	67.83	
	South	Near Weigh bridge (South)	11.87	20.80	69.9	61.5	20.71	65.95	
Mar - 22	East	Near Magazine Khamaria village (East)	11.96	22.57	75.6	67.7	22.02	72.48	
	West	Near Mines Office Babupur (West)	10.52	19.36	74.6	68.5	24.23	67.14	
	North	Near Camp Office (North)	9.83	19.55	74.8	67.3	22.87	68.83	
	South	Near Weigh bridge (South)	11.71	21.31	71.2	69.6	22.11	66.22	
	East		10.63	20.35	68.78	61.43	22.55	55.59	
	West		10.78	19.53	69.27	61.17	23.74	53.82	
	North		9.93	19.93	68.99	62.50	21.72	55.04	
	South		11.62	20.01	68.67	62.65	22.37	53.23	
	East		7.89	18.43	62.30	50.65	13.53	45.09	
	West		9.05	18.59	63.70	49.55	11.41	43.77	
	North		7.14	18.45	60.20	52.85	12.58	41.49	
	South		10.47	16.33	61.00	51.05	10.98	39.17	
	East		12.13	22.57	75.56	67.70	28.93	72.48	
	West		13.31	20.68	74.65	68.45	31.33	67.14	
	North		11.82	21.10	74.75	67.30	27.50	68.83	
	South		12.31	21.67	71.20	69.61	30.94	66.22	

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S.R.Jha
Manager (Environment)

BHILAI JAYPEE CEMENT LIMITED

Babupur (SATNA) MP-485112

FORMAT - 1

DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE FOR THE MONTH OF : Apr-Sep: 2021-22

DATE / MONTH	Unit No.	Cross sectional area of stack (M2)	Stack Temp. (Ok)	Velocity (m/sec)	Flow Nm3 / sec	Emission concentration Mg/Nm3	Mean emission Concentration Mg/Nm3	Emission (T / day)	Dust Load gms/Ts of feed	Load MW/T Production(T)	Remarks
Oct - 21	Kiln & Raw Mill BH Stack	13.8600	438	11.11	99.78	23.14	22.75	0.205	40.605		
Nov - 21		"	434	11.69	105.91	21.20					
Dec - 21		"	431	11.31	103.18	24.03					
Jan - 22		"	428	11.63	106.88	21.70					
Feb - 22		"	431	11.48	104.77	25.69					
Mar - 22		"	435	11.53	104.29	20.71					
				11.11	104.13	Dust Load (GM/Hr)	8527.02				
Oct - 21	Cooler ESP Stack	9.6250	527	11.96	62.83	20.56	23.18	0.130	39.994		
Nov - 21		"	531	12.61	65.74	24.75					
Dec - 21		"	528	11.88	62.30	20.26					
Jan - 22		"	530	12.69	66.29	24.88					
Feb - 22		"	527	12.66	66.52	20.19					
Mar - 22		"	537	12.78	65.90	28.46					
				12.43	64.93	Dust Load (Gms/Hr)	5419.14				
Oct - 21	Coal Mill BH Stack	2.2707	350	9.99	18.53	25.18	20.48	0.046	50.986		
Nov - 21		"	349	9.60	17.86	17.89					
Dec - 21		"	530	12.69	66.29	24.88					
Jan - 22		"	348	9.68	18.06	19.62					
Feb - 22		"	350	9.97	18.48	17.07					
Mar - 22		"	351	9.98	18.46	18.25					
				10.32	26.28	Dust Load (Gms/Hr)	1937.47				
Oct - 21	Limestone Crusher BDC	1.1314	349	10.34	19.22	22.26	21.49	0.019	1.989		
Nov - 21		"	320	8.45	8.60	19.72					
Dec - 21		"	321	8.44	8.56	23.15					
Jan - 22		"	320	7.89	8.03	18.03					
Feb - 22		"	319	8.50	8.68	22.11					
Mar - 22		"	324	8.57	8.61	23.68					
				8.70	10.28	Dust Load (Gms/Hr)	795.57				133.57
									Load Based Norms (227gms/T of feed)		


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 Manager (Environment)

BHILAI JAYPEE CEMENT LIMITED
BABUPUR (SATNA) MP - 485112

PERFORMANCE OF KILN & RAW MILL BAG HOUSE FOR THE MONTH :- Oct-Mar-2021-22

Unit No. B.H attached with	Total running of KILN		Total running of Bag House		Total stoppage of BH		No. of BH		Reason for		% of running Hrs.of BH	Remarks
	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Trippings	Trippings	Trippings			
Kiln & Raw Mill BH												
Oct-21	620.16		620.16	0.00		0		NIL		100.00		
Nov-21	531.25		531.25	0.00		0		NIL		100.00		
Dec-21	430.66		430.66	0.00		0		NIL		100.00		
Jan-22	672.09		672.09	0.00		0		NIL		100.00		
Feb-22	619.33		619.33	0.00		0		NIL		100.00		
Mar-22	400.33		400.33	0.00		0		NIL		100.00		
	3273.82		3273.82									

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SR JHA
Manager (Environment)

BHILAI JAYPEE CEMENT LIMITED
BABUPUR, SATNA (M.P)
STP Water Analysis Report Month - Oct - March (2021-22)

Location : Plant Area

Parameters (Treated Water)	MPPCB Limit	Month						Avg.	Min	Max
		Oct	Nov	Dec	Jan	Feb	Mar			
pH	5.5-9.0	8.10	7.3	7.8	7.2	8	7.4	7.6	7.2	8.1
Temperature (°C)	40	25	22	20	22	23	26	23.0	20	26
Odor	-	-	-	-	-	-	-	-	-	-
BOD (mg/ltr)	10	7.70	8.8	8.3	7.5	8.4	8.8	8.3	7.5	8.8
COD (mg/ltr)	50	40.30	37.6	40.2	38.9	39.1	38.6	39.1	37.6	40.3
Suspended Solids (mg/ltr)	20	16.80	17.8	17.5	18.0	19.0	18.5	17.9	16.8	19.0
Total Solids (mg/ltr)		2655.00	2955	3202	2505	2755	2405	2746.2	2405.0	3202.0

Location : Colony Area

Parameters (Treated Water)	MPPCB Limit	Month						Avg.	Min	Max
		Oct	Nov	Dec	Jan	Feb	Mar			
pH	5.5-9.0	7.5	7.8	8	7.5	7	7.5	7.6	7	8
Temperature (°C)	40	26	23	21	23	21	27	23.5	21	27
Odor	-	-	-	-	-	-	-	-	-	-
BOD (mg/ltr)	10	7	8.9	9.1	8.3	9.2	9.7	8.7	7.0	9.7
COD (mg/ltr)	50	39.7	40	39.6	37.7	38.6	37.3	38.8	37.3	40.0
Suspended Solids (mg/ltr)	20	15.5	17.5	18.5	16.5	17.0	18.5	17.3	15.5	18.5
Total Solids (mg/ltr)		3020	2469.5	2250	3421	3365	2270	2799.3	2250.0	3421.0




S R Jha
Manager (Environment)