# BHILAI JAYPEE

Date: 22.05.2021

Registered A/D

#### BJCL/Env/ECC/2020-21/02

To, The Director, Regional Office (Western Zone) Ministry of Environment & Forests Kendriya Paryavaran Bhawan E-5, Arera Colony, Link Road -3, Ravishankar Nagar, Bhopal (M.P)-462016

## Sub: Submission of EC Compliance report for the period Oct -2020 to March- 2021.

Ref: Environmental Clearance Letter No. J-11011/29/2008-1A-II(I) dated 21<sup>st</sup> July2009 & Amended vide MoEF letter No. J- 11011/29/2008-IA-II (I) Dated 10<sup>th</sup> September, 2015 for Clinker capacity 1.3MTPA.

#### Dear Sir,

As per above subjected letter we are enclosing herewith Environment Clearance Compliance report for the period of Oct - 2020 to March -2021 of Bhilai Jaypee Cement Ltd. & Ispat Limestone Quarry (ML-I & II) located at Village- Babupur, District- Satna (MP) for your kind information please.

Thanking you,

P.K Singh

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Vice President (Authorized Signatory)

Babupur (Satna) MP

For Bhilai Jaypee Cement Ltd.

Yours faithfully

Coto

- 1. The Member Secretary For kind information pl. Central Pollution Control Board
- Parivesh Bhawan, East Arjun Nagar, Delhi 110032 2. Member Secretary - For kind infor
- 2. Member Secretary For kind information pl. MP Pollution Control Board
- Paryavaran Pariser, E-5, Arera colony, Bhopal (MP) -462016
- 3. Regional Directorate For kind information pl Central Pollution Control Board
- 3<sup>rd</sup> Floor, Sahkar Bhavan,
- North T.T Nagar, Bhopal (M.P) 462003 4. The Regional Officer - F
  - For kind information pl
- MP Pollution Control Board
- Rewa -Maihar Bi-pass Road Dist - Satna (MP)-485001
- Dist 38th8 (IVIP)-485001



 Plant
 : Post Babupur, Satna (M.P.) Pin, 485112 Ph.:+ 91(7672) 415500,415600

 Regd. Office : Bhilai
 Township, Bullai
 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

 website : www.bjcl.co.in, CIN : U26940CT2007PLCO20250
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A JV of SAIL & JAIPRAKASH ASSOCIATES LIMITED

# BHILAI JAYPEE

Date: 22.05.2021

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#### BICL/Env/ECC/2020-21/02

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As per above subjected letter we are enclosing herewith Environment Clearance Compliance report for the period of <u>Oct - 2020 to March -2021 of Bhilai Jaypee Cement Ltd. & Ispat Limestone Quarry (ML-L& II)</u> located at Village-Babupur, District-Satna (MP) for your kind information please.

Thanking you,

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

AR P.K Singh

Vice President (Authorized Signatory)

- Cc to
- The Member Secretary
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   Central Pollution Control Board
- Parivesh Bhawan, East Arjun Nagar, Delhi 110032 2. Member Secretary For kind information pl. MP Pollution Control Board
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- North T.T Nagar, Bhopal (M.P) 462003 4. The Regional Officer - F

MP Pollution Control Board Rewa -Maihar Bi-pass Road Dist - Satna (MP) 485001 - For kind information pl.



Plant : PoetBebupur, Satna (M.P.) Pin -485112 Ph.:+91(7672) 415500,415600 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, 25143591 website : www.bjcl.co.in, CIN : U26940CT2007PLCO20250 A JV of SAIL & JAIPRAKASH ASSOCIATES LIMITED



# FORMAT FOR FILLING UP COMPLIANCE REPORT

Name of the Project: Bhilai Jaypee Cement Limited, Babupur, Tehsil-Raghuraj Nagar, District Satna (MP)-485112

# Project Code : 02MP146

<u>Clearance Letter No.:</u> - 11011/29/2008-IA-II (I) dtd. 21<sup>st</sup> July 2009 and Amended vide MoEF letter F. No. J- 11011/29/2008-IA-II (I) Dated 10<sup>th</sup> September, 2015 for Clinker Production (1.09 to 1.3 MTPA), Cement grinding (0.6 MTPA) and Limestone Mining 2.1 MTPA [ML-I: 590.52 Hact. and ML-II (1033.99Hact.) at village Babupur, Tehsil Raghurajnagar, District- Satna, Madhya Pradesh of M/s Bhilai Jaypee Cement Ltd.

### Period of Compliance Report: Oct-2020 to March- 2021

### A. SPECIFIC CONDITIONS

Sr. No.	Details of Conditions	Status
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1.	The Company shall comply with stipulated in the mining plan app 314(3)/2008-MCCM(C)/MP-46 date 2009 and 314(3)/2008-MCCM(C)/M March, 2009 issued by the Indian E and conditions of mining leases. The gaseous and particulate matter various units shall conform to prescribed by the M.P. Pollution Co no time, particulate emissions fro plant including kiln, coal mill, cemen shall not exceed 50 mg/Nm <sup>3</sup> . Cor monitors for particulate emissions s Interlocking facility shall be provided control equipment so that in the pollution control equipment not respective unit (s) is shut down auto	ter no. March, ed 26 <sup>th</sup> f Mines f Mines ns from andards oard. At cement d cooler on-line istalled. ollution of the ig, the	All condition being compli- being compli- missions from and found w prescribed to monitors for already insta- time data li pollution co- with main p emission are	ed. Is and pom various vell below by the MF r particula Iled in all n nked with ontrol equ	particulate units are b the limits PPCB. Cont te matter najor stacks CPCB web ipments a	matter s eing monit of 30 mg/ tinuous on emissions and CEMS osite. All n re Interlo	stack tored /Nm <sup>3</sup> n-line s are S real major pcked		
	HALF YEARLY REPORT OF F	PARTICUL	ATE MATT	ER EMISSION	ROM POIN	T SOURCE (S	STACK)		
	Period : ( Unit Stack Attached With	October-2	2020 to N	March- 2021					
	PCE (Pollution Control Equipment)	Oct-20	Nov-20	Dust Conc. (mg/Nm <sup>3</sup> )			Mar -21		
	Kiln & Raw Mill BH Stack Cooler ESP Stack	24.29 26.04	18.03 21.82	20.40 19.38	18.78 22.02	21.35 25.49	23.51 20.49		
	Coal Mill BH Stack	23.80	19.17	18.14	25.02	19.68	17.75		
	Limestone Crusher BDC	23.38	14.23	18.27	20.41	16.63	21.44		
	Secondary fugitive emissions shal within the prescribed limits monitored. Guidelines/Code of Pra the CPCB in this regard shall be company shall install adequate dus extraction system to control fugitive at material transfer points. Atomiz system with reclaimer shall be insta for the storage of ash. Storage materials shall be in closed roof conveyer belts shall be used to emissions. Concreting of all the sprinkling system at limestone an area shall be ensured to reduce fugit	and re actice iss followe t collecti e dust en zed wate alled in si e of oth sheds. C reduce e roads, d coal h	egularly ued by ed. The on and nissions r spray lo used er raw Covered fugitive water andling	For controlli dust collecti filters installe transfer poir conveyor be blending sild clinker silos emission du raw material and working conveyor an emission. Co transportation product to r of roads in completed.	on and exect and worn on and worn on the of lime by, Limesto and coal cring crushi les. Water s efficiently d coal belt overed cont on of raw educe fugits side the p	king efficie stone conv terial stora one crushei rusher to c ing and tra pray syster at Limeston s for contri veyer belt material a tive emissio plant prem	ystem like ently at mat veyor belt, ge hoppers r and Hopp ontrol the ansportatio ms are inst ne crusher, rolling the s are used as well as ons. Concre- nises has l	Bag terial coal s and pers, dust on of called , belt dust d for fine eting been	

					Water spray arrangement is provided in belt and							
						hopper for controlling the dust emission. Good						
						housekeeping practices are being followed for controlling the dust emission as per CPCB						
						0	aust en	nission	as per	CPCB		
	The means	we we have a large large		+ - + · ·	Guide				FC	-l!+!		
		onent shall		tatus o		s of complia		•				
			stipulated EC co			ling monito			0 1			
	0		a on their website			website and						
			ically. It shall simul			, CPCB and			5			
			onal Office of M of CPCB and the			oring data		•		5		
IV	•		ly; SPM, RSPM, S		-	PM <sub>2.5</sub> , SO <sub>2</sub> emissions)						
			as stack emissions)			the main						
	•		dicated for the pro			hly EC com	•					
			played at the co			-2020 to	•					
			gate of the Compa			itted vide	-					
	public doma		gute of the compe	ing in the		dtd. 20.11.2		. DJOL/	LINVEOU	12020		
	1		uding ambient no	ise level	s Ambie	ent air quali	tv includir	ng ambie	ent noise	e levels		
		1 5	ndards stipulated u			eing monito	5	0				
			ies. Monitoring of			B .The mor	•		•			
			e carried out reg		noise level are being submitted to the RO, MoEF,							
			B and data for air		CPCB and MPPCB regularly. The instruments used							
V	shall be s	ubmitted to	o the CPCB and	3 for ar	for ambient air quality monitoring are calibrated							
V	regularly.	The instrum	ents used for am	nbient ai	r timely	y. We have	installed	l two n	os. cont	inuous		
	quality mon	itoring shall	be calibrated time	to time.	real times A.A.Q. monitoring stations in plant							
					premi	premises and its data is linked with CPCB &						
						MPPCB website. Ambient Air Quality Monitoring						
						results of Cement Plant and Mines (ML-I & II) are						
					v	below.						
	CEME	ENT PLANT /	A. A. Q MONITOR			OM : Octo	ber-2020	to Ma	rch–			
	Month			202		Noise dB	Noise dB		PM-	1		
	of	F	Particulars	\$O2	NOX	(A)	(A)	PM 2.5	10			
	Samplin g		Place	(µg/M³)	(µg/M³)	Day time	Night Time	(µg/M³ )	(µg/M <sup>3</sup> )			
			Near Substation	7.64	16.26	69.42	61.03	28.47	65.99			
		Average	In front of FH-2	7.36	17.51	69.34	61.08	29.38	67.32			
		, wordyo	Near Annapurna	7.67	15.97	68.81	59.78	27.83	67.14			
			Near Scrape Yard	7.38	16.76	69.33	60.09	26.66	67.50			
	October- 2020 to		Near Substation	4.85	12.94	63.20	56.20	19.90	54.94			
	March	Minimum	In front of FH-2	3.64	16.27	66.35	57.65	17.32	59.66			
	2021		Near Annapurna	4.97	11.78	64.55	53.05	14.86	57.19			
			Near Scrape Yard	5.64	13.99	61.60	54.25	16.17	56.24			
		Maximum	Near Substation	9.80 9.88	19.15	72.70	68.90 66.70	35.71	79.03			
		Maximum	In front of FH-2	9.88	20.62 17.68	72.20 72.00	66.70 65.00	36.06 34.76	77.90 78.51			
			Near Annapurna	7.00	٥٥./١	12.00	00.00	34.70	10.01			

				Near Scrape Yard 10	0.00	19.12	74.0	0 66	.85 3	3.41 80	0.26
		N	1INES (ML-I	&II) AMBIENT AIR QUALITY MONI	TORING	DATA	OF FROM:	: October	-2020 to	March– 2	021
		D. I.		Particulars	S	02	NOX	Noise dB (A)	Noise dB (A)	PM 2.5	PM- 10
		Date		Place		/M <sup>3</sup> )	(µg/M <sup>3</sup> )	Day time	Night Time	(µg/M³)	(µg/M³ )
				Near Magazine Khamaria village (East)	<sup>9</sup> 7	.43	16.89	69.95	60.27	26.51	65.87
			Average	Near Mines Office Babupur (West)		.61	17.26	69.43	61.02	27.51	66.84
				Near Camp Office (North)		.88	17.05	69.50	59.82	27.03	67.21
		Octo		Near Weigh bridge (South) Near Magazine Khamaria village (East)	<b>`</b>	.51 .75	17.70 12.49	69.81 64.05	60.68 56.45	25.58 17.12	
		ber- 2020-	Minimu m	Near Mines Office Babupur (West)	4	.16	14.95	65.70	54.50	16.88	58.66
		Marc h-		Near Camp Office (North)		.60	14.44	66.00	52.80	17.06	
		2021		Near Weigh bridge (South)		.93	13.26	63.60	55.10	18.08	57.72
				Near Magazine Khamaria village (East)		).35	22.80	72.95	65.15	32.12	76.97
			Maximu m	Near Magazine Khamaria village (East)	<sup>2</sup> 11	1.53	19.09	72.90	66.85	37.15	77.08
				Near Mines Office Babupur (West)		.25	19.25	72.15	66.40	35.61	75.75
		_		Near Camp Office (North)		.61	21.93	74.40	64.85	31.45	
				made to reduce impact of aw materials and end produc			•	easures s			
				environment including agricu		<b>.</b> .					
		nd.	0			the surrounding environment are being taken					
		0.005	noniska	Il make the offerte to still-	<u>a +ha</u>			ker are tr			
				Il make the efforts to utilize ardous waste in the cemen		-		gement h fic value			o utilize ous wa
	-			visions shall be made accord		0		cement l			965 MT
	Th	e com	ipany sha	III keep the record of the v	waste			als were			
				submit the details to mini		proc	essing d	uring Apr	il 2020 †	o March	2021.

	Regional Office at Bhopal, CPCB and SPCB.													
VIII	Total ground water requirement shall not exceed 1400 m <sup>3</sup> /day for plant and mines. A copy of permission letter shall be submitted to Ministry's Regional Office at Bhopal. The treated wastewater from STP and utilities shall be reutilized for green belt development and other plant related activities i.e. cooling and dust suppression in raw material handling area etc. after necessary treatment. 'Zero' discharge shall be strictly adopted and no effluent from the process shall be discharged outside the premises.						Total ground water requirement is not exc to the limit of 1400 m <sup>3</sup> /day for plant and Permission for use of ground water has a obtained and renewed vide letter 4(50)/NCR/CGWA/2009/579 dtd. 09 <sup>th</sup> Apr and its further renewal is under proc Treated waste water from STP is being us green belt development and also in sprinkling and dust suppression and main zero discharge status.					d mines. s already no.21- pril 2015 occessing. used for n water		
		STP	Tre		ater Ana	-	•	Oct-20	020 – M	arch- 20	)21			
				L	ocation :							[		
	Parameters (Treated Water)		PPC B				onth				A	vg.	Min	Max
		Lir	mit	Oct	Nov	Dec	J	lan	Feb	Mar				
	рН	6.5	-9.0	7.30	7.4	7.6	7	7.2	8.1	7.8		.6	7.2	8.1
	Temperature (°C)	4	40	27°C	17°C	16°C	1	7°C	28°C	29 °C		2.3 C	16°C	<b>29</b> °C
	Odor		-	-	-	-		-	-	-		-	-	-
	BOD (mg/ltr)	1	10	8.90	6.3	6.3	6	6.8	6.2	6.7	6	.9	6.2	8.9
	COD (mg/ltr)	5	50	40.60	34.6	33.6	3	86.8	39.5	37	37	7.0	33.6	40.6
	Suspended Solids (mg/ltr)	2	20	16.50	14	16.5	1	7.5	16.7	17.5	16	5.5	14.0	17.5
	Total Solids (mg/ltr)		-	1420	1440	1530	2	985	2845	3085	221	17.5	1420	3085
			1		Locatio		lony	/ Area						
	Parameters (Treated Water)	MPP CB	Oc	t No		Month	In	Feb	Mar	Av	g.	Min		Max
	рН	Limit 6.5-	7.9				.7	7.5	7.9	7.8	8	7.5	5	7.9
	Temperature (°C)	9.0 40	25°	10	<sup>°</sup> 17°		°C	31°C	30°C			17°		31°C
	Odor	-	-	-	, _			-	-	-		-		-
	BOD (mg/ltr)	10	8.7	7 8.	2 8.8	3 8	.3	7.6	7	8.	1	7.0	)	8.8
	COD (mg/ltr)	50	41.	5 3	3 37.	5 35	5.5	33.5	33.5	36.	.6	33.	5	41.5
	Suspended Solids (mg/ltr)	20	17.	5 14	.0 16.	0 16	6.5	18.0	17.0	16.	.5	14.	0	18.0

	Total Solids (mg/ltr)	-	1450	110 0	1350	1750	2050	2600	1716.7	1100.0	2600.0	
IX	Rainwater harvestin the augmentation of colony and mine s harvest the rainwa water drains to re- company must also out pits of captive same water for the to conserve fresh requirement press shall construct th groundwater recha premises also in Panchayat and Villa water level. An ac Ministry's Regional from date of issue of	of grour ite. Bes ter fron echarge o collect e lime s e variou water ure fron ne rain rge stru consult ge Head tion pla Office a of this le	d water ides, com the gro rain wa stone m s activiti and re the riv water uctures of tation v ds to aug in shall it Bhopa tter.	at cen mpany oftops ound v ater in ine an ies of t educe er. The outside vith lo pment t be sub I withir	nent pla must al and sto vater. T the min d use t he proje the wa e compa sting a e the pla bcal Gra che grou omitted a 3 mont	nt, can so Ge rm an he Co ed be he Bh ect Ba ter co ny ad nd rec and rec and mi to rai to rai hs usu acu Th by rec pu wa po in Vil	rried ou cosurvey d for nsultance en sub- opal, CC sed of nsultant opted a charge s e at the ter. Wa ned out n water ed for ppressio cordingly e roof t channe charging ncturing ater as n nd outs consulta lage Hea	t for P Consu Towns cy Pvt mitted GWB, Br n the s, the t Plant, tructure ter rese area ( r thus sprinkl n and y the fr op rain elizing pits. T the st recomm ide the ation w ads.	lant and ltants, Joo hip by Ltd., Jaip to Regio nopal, MP recom RWH m Mines a es have be ny to re rvoir has 2 acre ap collected ing on l green be resh wate water ha water th he pit is rrata for hended. V plant for ith local	Mines by dhpur, an M/s Hy ur. The r onal Direct PCB and C mendation heasures and Colon een made echarge u also been oprox.) fo in reserv haul road er is being rvesting is arough pi further a recharging Ve have a rain wate Gram Par		roan nye F, al e e e e e e e e e e e e e e e e e e
x	the project proport the project at the next mining scher Mines so as to re- burden dump by s the dumps with pro- that the overall slo 28 <sup>0</sup> .	time of me fror duce th suitably oper ter	seeking n the li e area f increasi racing. It	appro ndian for ext ng the shall k	val for t Bureau ernal ov height be ensur	he mi of let ver 20 of rei ed wi ed wi	ning sci ter dtd. 21 fror newal is II be ind th prope	heme ( 06.03. n India under p creased er terra	of ML-I&I 2016 and an Burea process. T to reduc cing as p	I has ap I valid up u of Mi he height ce the du	proved vid to Marc nes furthe of the dum umping are aditions. Th	le ch er np ea
XI	Topsoil, if any, shal earmarked site(s) c shall be used for r	only with	n adequa	ate mea	asures a	at To nd an	psoil be d will be	ing stor e used f	red carefu for reclam	ully at ear nation and	marked sit plantatior /removed	n.

	mined out areas.	19977.77 Ts. in April -2020 to March 2021 in FY 2020-21
XII	The project proponent shall ensure that no natural water course shall be obstructed due to any mining and plant operations. The company shall make the plan for protection of the natural water course passing through the plant and mine area premises and submit to the ministry's Regional Office at Bhopal.	No natural water course was obstructed due to mining and plant operation as no natural water course passing through the mining lease area.
XIII	The inter burden and other waste generated shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The total height of the dumps shall not exceed 30 m in three terraces of 10 m each and the overall slope of the dump shall be maintained to 28 <sup>0</sup> . The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office, Bhopal on six monthly bases.	Presently no Inter burden encountered during mining. However, at a later stage, if any inter burden is encountered, EC condition will be complied. The Overburden and other waste generated in ML-I is 167185.14. Ts. & ML-II is 87976.25 Ts. in FY 2020-21 upto March-2021 will be used in back filling/ stacked at earmarked dump site(s) and shall not be kept active for long period. The waste dump site(s) total height of the dump is made in 3x10 m lift each an overall slope 28 <sup>0</sup> . The interactive benches will be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas will continue until the vegetation becomes self-sustaining. Compliance report is submitted to the Ministry of Environment & Forests and its Regional Office, Bhopal on six monthly bases.
XIV	The void left unfilled shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation to be done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	The void left at the end of mining shall be converted into water body. The mining activities have been started from 1.1.2010.
XV	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted, particularly after monsoon, and maintained properly.	All garland drains are well maintained and de silted before rainy season. The collected water in sump used for water spray on haul roads and loading points for dust suppression.

		Photogrph: Setling pit of Mines (ML-I&II)
XVI	Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter burden dumps and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.	
XVII	Dimension of the retaining wall at the toe of inter burden dumps and inter burden benches within the mine to check run-off and siltation shall be based on the rain fall data.	

		Photograph: Retaining wall in Mines ML-I&II
XVIII	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central Ground Water Board. The frequency of monitoring shall be four times a year- pre-monsoon (April / May), monsoon (August), post- monsoon (November), and winter (January). Data thus collected shall be sent at regular intervals to Ministry of Environment and Forests and its Regional Office at Bhopal, Central Ground Water Authority and Central Ground Water Board.	The ground water monitoring is being carried out by M/s Hydrominviron Consultancy Pvt Ltd., Jaipur, through 32 dug wells located within the 10 Km buffer zone around Mines and Plant, hence it was not found necessary to install the piezometers because the purpose of ground water level monitoring is fulfilled as per condition. Regular monitoring of the Ground water level and quality monitoring work is being done and its latest report submitted to Regional Director, CGWB and Regional Director, MoEF and MPPCB Bhopal vide our letter dtd.22.02.2021 for period Post Monsoon November-2020.
ХІХ	Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.	Controlled blasting is in practice. Blasting operation is being done only during daytime. Mitigation measures have been adopted to control ground vibrations and fly rocks.
ХХ	The project proponent shall adopt wet drilling.	All the drilling machines are fitted with wet drilling system.
XXI	As proposed, green belt shall be developed in 33 % in and around the plant as per the CPCB guidelines.	Green belt has been planned to be developed in 33 % area in and around the plant as per the CPCB guidelines. As per Green Belt Development Plan Total 118325 nos. of sapling have been planted in FY 2020-21 in Cement Plant & Mines Area. The total area covered under plantation in Cement Plant area is about 33.42 ha and in Mines the area covered is about 20.41 ha. Further plantation in Plant and Mines area is ongoing process.

XXII	All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) for cement plant shall be strictly followed.	Recommendations of Corporate Responsibility for Environmental Protection (CREP) for cement plant are followed.
	Charter on Corporate Responsibility for E	nvironmental Protection (CREP)
Sr.	CREP Conditions	Status of Compliance
No. 1 2.	<ul> <li>Cement Plant which are not complying with notified standard, shall do the following to meet the standard :</li> <li>Augmentation of existing Air Pollution Control Device - By July 2003.</li> <li>Replacement of Air Pollution Control Device - by 2004</li> <li>Cement Plants located in critically polluted or urban areas</li> </ul>	BJCL plant has been working since Jan 2010. We have adopted and installed latest air pollution control technology like Bag house, ESP & Bag filters in Cement plant and the emission level monitored are found well within the prescribe limits of 30 mg/Nm3. We are complying standard of particulate matter of 30
3.	(including 5 km distance outside urban boundary) will meet 100 mg/Nm3 limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm3. The new cement kilns to be accorded NOC/ Environmental	mg/Nm3 as prescribed by the MPPCB.
5.	Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/Nm3 for particulate matter emissions.	prescribed norms 30 mg/Nm3.
4.	CPCB will evolve load based standards by December 2003.	Emission standard prescribe by Board being followed.
5.	CPCB and NCBM will evolve SO2 and NOx emission standards by June 2004.	SO2 and NOx emission well within the prescribe limit as per guidelines and its real time data is being uploaded in CPCB website,
6.	The Cement Industries will control fugitive emission from all the raw material and products storage and transfer points by Dec- 2003. However, the feasibility for the control of fugitive emission from limestone and coal storage areas will be decided by the National Task Force (NTF).The NTF shall submit its recommendations within three months.	For controlling the dust emission from cement plant, we have installed adequate capacity of bag house for Kiln & Raw mill, one Electro Static Precipitators for Clinker cooler, one bag house for coal mill and 25 Nos. Bag dust collectors in various raw material transfer points and storage silos such as raw meal, coal meal and various material transfer points, Clinker being stored in 24000Ts. Capacity Clinker silo. Clinker silo also equipped with adequate capacity of bag filter to control the dust emission. Water is spraying on roads and other area for controlling the fugitive dust emission. Fugitive emission is controlled by implementing CPCB guidelines.
7.	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.	Being followed.
8.	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit	The continuous Emission monitoring systems are installed at Kiln & Raw mill Bag House, Cooler ESP and coal mill stacks and working efficiently. The Real time

	operation (sections for installation of continuous monitoring	data of CEMS is uploaded in CDCD (MDDCD and
	operation/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003.	data of CEMS is uploaded in CPCB /MPPCB and Company web site.
9.	Tripping in kiln ESP to be minimized by July 2003 as per the	We have installed bag house for the Kiln & Raw Mill and
	recommendation of NTF.	Coal mill. Tripping is not applicable.
10.	Industries will submit the target date to enhance the utilization	As, we are manufacturing clinker only. Therefore, solid
	of waste material by April 2003.	waste material such as fly ash is not generated/
		consumed. We have used approx 16965MT Pet
		coke as AFR in Cement Kiln upto in FY 2020-21.
11.	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Noted and to be followed.
12.	Cement industries will carry out feasibility study and submit	Feasibility study will be carried out for co-generation of
	target dates to CPCB for co-generation of power by July 2003.	power.
	Vehicular emissions shall be kept under control and	Noted. All the vehicles operating in mining area
	regularly monitored. Measures shall be taken for	have valid PUC certificate. The vehicles are used
	maintenance of vehicles used in mining operations	for transportation of mineral are avoided
XXIII	and in transportation of mineral. The vehicles shall	overloading. The vehicles are maintained
	be covered with a tarpaulin and shall not be	regularly.
		legularly.
	overloaded.	
	Digital processing of the entire lease area using	The digital processing of entire lease area using
	remote sensing technique shall be done regularly	remote sensing technique has been carried out
	once in three years for monitoring land use pattern	by M/s Anacon Laboratories Pvt Ltd., Nagpur in
	and report submitted to Ministry of Environment	Nov-2015 which reports has been submitted to
XXIV	and Forests and its Regional Office, Bhopal.	Regional office, MoEF Bhopal, Member Secretary,
		MPPCB, Bhopal, and Member Secretary CPCB,
		New Delhi further we have completed digital
		processing study and its report will be submitted
	A Final Mine Closure Dian along with details of	shortly.
	A Final Mine Closure Plan along with details of	The progressive mine closure plan along with
	Corpus Fund shall be submitted to the Ministry of	Corpus fund of ML-I & ML-II has been submitted
XXV	Environment & Forests 5 years in advance of final	to IBM dated 02.05.2011.
	mine closure, for approval.	
	Necessary permission and recommendation of the	District forest officer, Satna vide letter No.
	State Forests department shall be obtained	DM/955 dtd. 11.02.2009 has certified that plant
	regarding impact of the proposed cement plant and	complex (Area 101.71 hect.) including two
	mining on the surrounding reserve and protected	Mining lease (ML-I area 590.22 hect. and ML-II
XXVI		5
	forests and suggested conservation plan shall be	area 1033.99) does not have any National Park,
	implemented.	Wild life Sanctuaries, Biospheres reserves, wild
		life corridors, Tiger/Elephant reserves and
		migratory paths /roots within 10 KM radius.
	The company shall comply with all the	Commitments made during public hearing have
ХХ	commitments made during public hearing on	been complied. We have provided compensation
VII	21.12.2008	as per rules and jobs provided to related land
• • •		losers according to their qualifications as
		iosois according to their qualifications as

	,	additional benefits.
XXVIII	Provision shall be made for the housing of construction labor 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	Provision was made for the housing of construction labours within the plant site with all necessary infrastructure and facilities such as fuel for cooking, toilets, Safe drinking water, medical health care facilities etc. Now, all temporary structure has removed.
	GENERAL CONDI	ΓΙΟΝS
	Details of Conditions	Status
I	The project authority shall adhere to the stipulations made by State Pollution Control Board (SPCB) and State Government.	Noted and agreed.
II	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Noted and agreed.
111	At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office and SPCB / CPCB once in six months.	Eight ambient air quality monitoring stations (4 each at Plant & Mines) have been established. Monthly and six monthly monitoring data is being submitted to all concerned authorities and also uploaded on company website. Monitoring report has been submitted regularly on monthly and six monthly to all concerned authorities.
IV	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	The treated waste water is used for plantation purpose. However no industrial wastewater is generated from the cement plant.
V	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).	Noise level within the plant is maintained within the norms. Monitoring of noise level is carried out periodically as per MPPCB guidelines and reports being submitted regularly.
VI	Proper housekeeping and adequate occupational health program shall be taken up. Occupational Health Surveillance program shall be done on a regular basis and records maintained properly for at	Good housekeeping practice has been followed. Mechanized Road sweeping machine is used for cleaning of roads in Plant area. Occupational Health Surveillance program are regularly carried

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	least 30-40 years. The program shall include lung function and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	out and record is maintained.
VII	The company shall undertake eco-development measures including community welfare measures in the project area.	The eco-development and community welfare measures are being taken by the company. The BJCL is committed towards the safety, health and environment of employees and public of surrounding villages. The financial assistance to nearby educational, social and religious organization is being provided. Medical facilities are extended to nearby villagers. The total expenditure of Rs.10.5 Lac has been incurred in the financial year 2020-21 towards CSR and Eco development activities.
VIII	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP.	Yes, We are complying the environmental protection measures and safeguards as recommended in the EIA/ EMP.
IX	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	A separate Env. Management cell has been working with full fledged laboratory facilities to carry out various Env. Management and monitoring functions.
Х	Adequate fund shall be allocated to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.	A separate fund has been created for the exclusive use for the Environmental protection and Pollution control activities.
XI	The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions. The project authorities shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Full cooperation is extended to the visiting officials. Six monthly compliance report and along with the monitored data is regularly submitted to the Regional Office of this Ministry / CPCB / SPCB.
XII	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both on hard copies as well as by e- mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Yes, We are submitting six monthly reports on the status of compliance as per stipulated EC conditions.

XIII	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. No change in the calendar plan including excavation, quantum of limestone and waste shall be made.	No <i>t</i> ed and Agreed.
XIV	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with ear pluggs/ muffs.	Noise level is controlled within the stipulated norms by adopting adequate noise control measures. Personnel protective equipment has been provided to the workers engaged in operations of HEMM etc. Awareness/ training program are being organized regularly.
XV	Industrial waste water (workshop and waste water from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	Zero discharge of water is maintained. Oil and grease trap is installed for workshop effluents.
XVI	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Personnel working in mines/ dusty areas have been provided personnel protective equipment/ respiratory devices and providing adequate training and information on safety and health aspects. Occupational health surveillance program of the employees are undertaken periodically.
XVII	The project authorities shall inform to the Regional Office located regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The Clinker production unit's financial closure booked in A/c is 15.12.2009 at a cost of Rs. 445 Crores. The commercial production of clinker was started from 03.01.2010 as communicated to RO, MoEF Bhopal vide our letter No. BJCL/COORD/DG/2010-11 dtd. 17 <sup>Th</sup> July 2010, Regional Officer, MPPCB, Satna and Member Secretary, MPPCB, Bhopal on 27.04.2010. Further, we would like to submit that the installation of Grinding unit for which EC has been granted, is approved by JAL Board and now under consideration by the Board of Directors of SAIL, as this unit is a joint venture of JAL & SAIL. After due approval from SAIL Board, the installation of Cement grinding unit will be taken up and accordingly financial closure will be intimated to MoEF.
XVIII	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad	EC letter sent to concerned authorities and receipt is taken.

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	/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations if any, were received while processing the proposal. The clearance letter	
	shall also put up on the website of the Company by the proponent.	
XIX	The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at "http://envfor.nic.in" and a copy of the same shall be forwarded to the Regional Office of this Ministry.	Advertised in the News paper "The Desh Bandhu, The Nav Bharat & The Dainik Bhaskar" on Dt. 28.07.2009.
хх	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the Company along with the status of compliance of EC conditions and shall also be sent to the respective regional Office of the MoEF by e-mail.	Environmental statement of last FY 2019-20 was submitted on 28.05.2020.
ххі	The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry.	Noted and agreed.
XXII	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted and Agreed.
XXIII	Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.	Noted and Agreed
XXIV	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, Second Floor, Trikoot-I, Bhikaji Cama Place, New Delhi-110066, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	Noted and Agreed.

XXV	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.		
	MoEF vide letter F. No. J- 11011/29/2008-IA-II (I) Dated 10 <sup>th</sup> September, 2015		
1.	The Project Proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent discharge, as provided by CPCB and submit report to Ministry and its Regional Office.	We have installed 24x7 air monitoring devices to monitor air emission and its data uploaded to CPCB website and also submit reports to Ministry and its Regional Office. We have maintained zero effluent discharge.	
2.	The company shall obtain fresh Environmental Clearance in case of any change in the scope of the project.	Being followed.	

For Bhilai Jaypee Cement Ltd. (Babupur) Satna

P.K Singh Vice President (Authorized Signatory)

