### Registered A/D

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#### BJCL/Env/ECC/2015-16/01

#### Date: 21.11-2015

EMENT LIMITED

To, The Director, Regional Office Ministry of Environment & Forests Regional Office, (WZ) 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 April- 2015 to Sept - 2015.

Ref: Environmental Clearance Letter No. J-11011/29/2008-1A-II(I) dated 21<sup>st</sup> July2009 & Amended on dated 10<sup>th</sup> Sept 2015 for Clinker capacity 1.09 to 1.3MTPA.

### Dear Sir,

As per above subjected letter we are enclosing herewith Environment Clearance Compliance report for the period of <u>April-2015 to Sept -2015</u> of Bhilai Jaypee Cement Plant & Ispat Limestone Quarry (ML-I & II) located at Village- Babupur, District- Satna (MP).

This is for your kind information and record please. Thanking you,

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

vollat

B. K. Agrawal Jt. President (Tech)

ALGIC

#### Cc to:

- The Member Secretary
   For kind information pl.
   Central Pollution Control Board
   Parivesh Bhawan , East Arjun Nagar
   Delhi 110032
   The Member Secretary
   For kind information pl.
- 2. The Member Secretary For kind information pl. MP Pollution Control Board Paryavaran Pariser, E-5, Arera colony, Bhopal (MP) -462016
- 3. Zonal Officer 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 For kind information pl. MP Pollution Control Board
- House No. 318, Gali No-5 Dhawari, Dist - Satna (MP)

ROU

 
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 Regd. Office
 : Bhilai
 Township, Bhilai
 Durg, Chattisgarh
 - 490
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 Head. Office
 : JA House', 63, Basand Lok, Vasant Vihar, New Delhi-110 057 (India) Ph.:+91 (11) 26141540, 26147411 Fax:+91 (11) 26145389, 26143591 website:
 www.bjc.co.in, CIN: U26940C72007PLC020250

 JV of
 SAIL & JAIPRAKASH ASSOCIATES LIMITED

# FORMAT FOR FILLING UP COMPLIANCE REPORT

<u>Name of the Project:</u> Bhilai Jaypee Cement Limited,Babupur,Thehsil-Raghuraj Nagar, District Satna (MP)-485112

Project Code: MoEF vide letter F. No. J- 11011/29/2008-IA-II (I) Dated 10<sup>th</sup> September, 2015

<u>Clearance Letter No.</u>: - 11011/29/2008-IA-II (I) dtd. 21<sup>st</sup> July 2009 and Amended on 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 ,Tahsil Raghurajnagar, District Satna, Madhya Pradesh of M/s Bhilai Jaypee Cement Ltd.

# Period of Compliance Report: April – September 2015

Sr. No.	Details of Conditions	Status
I.	The Company shall comply with the conditions stipulated in the mining plan approval letter no. 314(3)/2008-MCCM(C)/MP-46 dated 25 <sup>th</sup> March, 2009 and 314(3)/2008-MCCM(C)/MP-47 dated 26 <sup>th</sup> March, 2009 issued by the Indian Bureau of Mines and conditions of mining leases.	All conditions stipulated in the mining plan are being complied.
11	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the M.P. Pollution Control Board. At no time, particulate emissions from the cement plant including kiln, coal mill, cement mill and cooler shall not exceed 50 mg/Nm <sup>3</sup> . Continuous on-line monitors for particulate emissions shall be installed. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	The gaseous and particulate matter stack emissions from various units are being monitored and found well below the limits of 50 mg/Nm <sup>3</sup> prescribed by the MPPCB. Continuous on-line monitors for particulate matter emissions are already installed in all major stacks and CEMS real time data linked with CPCB website. All major pollution control equipments are Interlocked with main process equipments. Data of stack emission are as below.

## A. SPECIFIC CONDITIONS

	HALF YEARLY REPORT	<u>of Partic</u>	ULATE MA (STACI		SSION FRO	<u>om point</u>	SOURCE		
	Period : (April-2015 to September-2015)								
	Unit Stack Attached With		[	Dust Conc	(mg/Nm <sup>3</sup>	)			
	PCE (Pollution Control Equipment)	Apr	Мау	Jun	Jul	Aug	Sep		
	Kiln & Raw Mill BH Stack	19.64	23.39	22.12	20.87	18.60	23.79		
	Cooler ESP Stack	21.85	16.32	16.83	15.51	19.71	15.86	-	
	Coal Mill BH Stack	22.93	24.19	20.50	24.64	19.34	21.44		
	Limestone Crusher BDC	17.30	21.15	26.77	22.23	20.59	18.27		
111	Secondary fugitive emissions within the prescribed lim monitored. Guidelines/Code of the CPCB in this regard shal company shall install adequate extraction system to control fug at material transfer points. At system with reclaimer shall be for the storage of ash. Sto materials shall be in closed r conveyer belts shall be used emissions. Concreting of al sprinkling system at limestone area shall be ensured to reduce	emission system efficient limestor Raw ma silos, lir clinker s dust transpo systems at Limes belts fr Coverec transpo product Concret has bee covered provided the du practice the dust	like Bag fi ly at man ne conveye sterial stor nestone c silos and c emission rtation of are instal stone crust or contro for conveye rtation of to rec ing of roac en comple shed. W d in belt st emiss s are bein cemission	collection ilters insta- aterial tra- or belt, co- rage hopp rusher, lin coal crush during raw mater lled and w her, belt co- olling the er belts raw mater duce fug ds inside the ted. Raw ater spray and hoppe- ion. Goo ng followe as per CPC	and ext alled and w ansfer po- pal conveyoners and b mestone h er to cont crushing rials. Wate vorking eff conveyor a dust er are use rial as well jitive em he plant po- coal is sto y arranger er for cont coal for coal	working ints of or belt, lending oppers, trol the and er spray riciently nd coal nission. ed for as fine issions. remises ored in nent is trolling keeping trolling nes.			
IV	The proponent shall uploa compliance of the stipulat including monitored data on the update the same period simultaneously be sent to the MoEF, the respective Zonal Off SPC. The criteria pollutant name	ed EC c eir website odically. e Regional rice of CPC	e and shall It shall Office of B and the	Status conditio being submitt and SF monitor	of comp ns, includ uploaded ed to Reg PCB on ing data	oliance of ding mon in BJC ional offic six mon . The c	f stipulat itored da L website e of MoEf thly basis riteria po c, NOx (A	ed EC ta are e and F, CPCB s with pllutant	

	critical project convenie Compan	sector shall I ent Io y in th	al para be mon cation i e public	as well as stack ameters, indica itored and disp near the main domain.	e mon e of th e repo 2015 No.E 21.0	levels as well as stack emissions) are monitored and displayed near the main gate of the factory. The six monthly EC compliance reports for the period Oct-2014 to March- 2015 has been submitted vide letter No.BJCL/Env/ECC/2014-15/02 dtd. 21.05.2015.								
V	shall not or by th air qual consulta shall be regularly quality r	excee e State ity an tion w e sub v. The nonito	ed the st e author d shall rith MPP mitted e instru ring sha	icluding ambient andards stipulat ities. Monitorin be carried out CB and data for to the CPCB ments used for II be calibrated t	ed ur Ig of regi air ei and amk ime t	nder EP/ ambien ularly in mission MPPCI pient ai o time.	A level t guid n AAQ s subr B regu r air c We time pren web repo are g	is are elines and nitted larly. T quality have in have in solution have in have in call have in have i	being of MP ambie to the fhe ins monit monit .Q. m and its Ambien ement elow.	moni PCB . ent r RO, N strum coring ed two ionito s data nt Ai t Plan	tored The moise AoEF, ents c are c o nos ring a is li r Qu t and	regula nonitor level CPCB a used fo calibrat calibrat contin station inked nality Mines	ient noise rly as pe ed data o are being nd MPPCI or ambien ed timely nuous rea in plan with CPCI Monitoring (ML-I & II	
	F	LANT A			1		No	( MONT ise dB	H FROM		– Sep - PM			
		Month of Particulars SO2 NOX (A		(A) y time	(A Night	)	2.5 (µg/N	10						
				Near Substation	<b>3)</b> 4.6	<b>*)</b> 7 13.3		5.00	56.		<b>*)</b> 30.45	<b>3)</b> 5 59.3	1	
				Avorago	Infront of FH-2	4.34	4 12.8	35 6	4.93	54.	19	28.70	) 57.2	5
			Average	Near Annapurna	4.1	3 12.8	33 6	4.68	54.	98	22.93	3 51.0	2	
				Near Scrape Yard	4.34	4 12.8	85 6	5.33	55.	77	23.87	49.4	9	
				Near Substation	4.1	5 12.1	5 6	3.30	54.	75	13.63	3 22.0	3	
l	Арі		Minimu	Infront of FH-2	4.0	6 11.7	0 6	4.10	51.	20	11.08	3 21.7	5	
l	Sep 2	2015	m	Near Annapurna	3.7	1 11.9	96 6	3.30	54.	15	10.24	17.5	5	
I				Near Scrape Yard	4.10	0 12.2	23 6	3.30	53.	55	9.19	15.9	7	
I				Near Substation	5.0	0 14.4	1 6	6.65	57.	75	47.32	92.5	3	
I			Maximu	Infront of FH-2	4.5	5 13.5	6 6	6.45	57.	90	50.39	9 88.9	D	
I			m	Near Annapurna	4.3	9 13.9	96 6	5.75	56.	05	40.39	83.3	2	
				Near Scrape Yard	4.6	6 13.5	57 6	7.25	57.	55	42.86	80.9	5	
							0 D A T A C		ONTU				045	
	IVII	NES (IVI	L-I &II) AN	MBIENT AIR QUALIT				DF SIX IVI Noise		Y FROM Noise		- SEP - 2 PM	015 PM-	
	Data			Particulars		SO2	NOX	(A		(A		2.5	10	
	Date			Place		(µg/M <sup>3</sup> )	(µg/M <sup>3</sup> )	Day t	ime	Night	Time	(µg/M ³)	µg/M) *)	
			Near N	lagazine Khamaria vil	lage	4.18	12.28	64.9	94	55.0	65	25.73	53.92	
								-						
	Apr to Sep 2015	Avg	Near W	/eigh bridge		4.70	13.21	65.4	48	56.2	25	30.02	58.56	

		Near Mines Office	4.29	13.12	65.19	55.95	24.04	53.53		
		Near Magazine Khamaria		11.57	63.75	52.90	12.53	16.01		
		Near Weigh bridge	3.86	12.24	63.40	54.45	12.38	16.10		
	м	/in Near Office Babupur	3.85	12.80	62.15	52.80	12.56	17.60		
		Near Mines Office	3.94	12.02	62.90	53.35	7.29	14.50		
		Near Magazine Khamaria		14.03	67.20	56.65	43.84	81.42		
		Near Weigh bridge	5.28	13.90	67.45	57.75	51.85	88.20		
	Ma	lax Near Office Babupur	4.96	14.37	66.40	55.25	50.45	92.34		
		Near Mines Office	4.59	14.37	68.80	58.70	43.43	84.07		
	Efforts shall	I be made to reduce							on	
VI	the surround land. The compan high calorific and necessar The compan utilized and	The raw materials and eding environment includ ny shall make the effort ic hazardous waste in t ry provisions shall be ma ny shall keep the record shall submit the detai fice at Bhopal, CPCB and	ts to utilize th he cement kil ade accordingly d of the wast ls to ministry'	Il impa prod bein thro e Prop n calor r. kiln e tech s proc MPP haza kiln. the v to M	Adequate measures such as water spray on the road and avoid overloading to reduce impact of transport of raw materials and end products on the surrounding environment are being taken. Coal and clinker are transported through Railway. Proper arrangement to utilize the high calorific Non hazardous waste in the cement kiln has been made and examined for its technical viability. For the permission of co processing, application has been submitted to MPPCB and after getting permission Non hazardous waste material to be utilized in kiln. Once it's put into operation, record of the waste utilized will be maintained and sent					
VIII	1400 m <sup>3</sup> /da permission l Regional Off from STP an belt develop i.e. cooling a handling are discharge sh	d water requirement sl ay for plant and min- letter shall be submitter fice at Bhopal. The treat nd utilities shall be reut oment and other plant re and dust suppression i ea etc. after necessary tr hall be strictly adopted a rocess shall be discharg	d Tota f exce s plan r wate n vide s dtd. il from y deve t dust	exceeding to the limit of 1400 m <sup>3</sup> /day for plant and mines. Permission for use of ground water has already obtained and re newed vide letter no.21-4(50)/NCR/CGWA/2009/579 dtd. 09 <sup>th</sup> April 2015. Treated waste water from STP is being used for green belt development and also in water sprinkling for dust suppression and maintaining zero						

STP Water Analysis Report Apr – Sep 2015 Location : Plant Area										
Parameters (Tractory	MPPC			N	lonth			0	<b>N 4 i</b>	
(Treated Water)	B Limit	Apr	Мау	Jun	Jul	Aug	Sep	- Avg.	Min	Ma
рН	5.5- 9.0	7.49	7.5	7.6	7.3	7.2	7.4	7.4	7.2	7.
Temperature (°C)	40	30	38	32	27	24	23	29.0	23	3
Odor	-	No Odor	No Odor	No Odor	No Odor	No Odor	No Odor	-	-	-
BOD (mg/ltr)	30	14	14.3	18	13.8	15.3	12.2	14.6	12.2	18
COD (mg/ltr)	250	66	72	81	79	71	83.5	75.4	66.0	83
Suspended Solids (mg/ltr)	100	58	58	43	48.5	51	50	51.4	43.0	58
Total Solids (mg/ltr)		1270	1247	1241	1001	1215	1089	1177.1	1001.0	126

	Location : Colony Area									
Parameter	MPPC	Month					0	N //		
s (Treated Water)	B Limit	Apr	May	Jun	Jul	Aug	Sep	Avg.	Min	Max
рН	5.5- 9.0	7.58	7.4	7.2	7.5	7.4	7.2	7.4	7.2	7.58
Temperat ure (°C)	40	31	37	33	26	25	23	29.2	23	37
Odor	-	No Odor	No Odor	No Odor	No Odor	No Odor	No Odor	-	-	-
BOD (mg/ltr)	30	11.85	10.7	14.3	11.5	12.5	15.2	12.7	10.7	15.2
COD (mg/ltr)	250	62.5	64	67	64	66.5	73.5	66.3	62.5	73.5
Suspende d Solids (mg/Itr)	100	52.5	48.0	53.0	47.0	47.5	50.0	49.7	47.0	53.0

	Total Solids (mg/Itr)	118	3 1159	1422	1224	1237	1284	1251.5	1159.0	1422.0
IX	Rainwater har the augmenta colony and m harvest the ra water drains company mus out pits of ca same water for to conserve requirement p shall construe groundwater in premises also Panchayat ar ground wate submitted to within 3 mont	tion of ground ine site. Besid inwater from to recharge t also collect aptive lime st or the various fresh water oressure from ct the rain recharge struct o in consultand Village He r level. An Ministry's Re hs from date of	blant, t also storm . The nined e the roject water npany and plant Gram the II be hopal r.	The Rain water harvesting studies have been carried out for Plant and Mines by M/s Hydro Geosurvey Consultants, Jodhpur, Rajasthan and for Township by M/s Hydrominviron Consultancy Pvt Ltd., Jaipur. The reports have been submitted to Regional Director, MoEF, Bhopal, CGWB, Bhopal, MPPCB and CPCB Bhopal. Based on the recommendation of the consultants, the RWH measures have been adopted at Plant, Mines and Colony. Six water recharge structures have been made at Plant and one at the colony to recharge underground water. Water reservoir has also been made in the mined out area (2 acre approx.) for RWH. The rain water thus collected in reservoir is being used for sprinkling on haul roads for dust suppression and green belt development and accordingly the fresh water is being conserved. The roof top rain water harvesting is carried out by channelizing water through pipe lines in recharging pits. The pit is further advanced by puncturing the strata for recharging of ground water as recommended. We have also made a pond outside the plant for rain water harvesting in consultation with local Gram Panchayat and Village Heads.						
x	The project p of the project the next minin Mines so as t burden dump the dumps wit that the overa 28 <sup>0</sup> .	at the time ng scheme fro to reduce the by suitably i th proper terra	al for au of over ht of sured	In next modification of mining scheme, due March 2016 from Indian Bureau of Mines, the height of the dump will be increased reduce the dumping area with prop terracing as per EC conditions. The over						
XI	Topsoil, if any earmarked site shall be used mined out are	e(s) only with for reclamation	adequate	s and	d site and will be used for reclamation a					

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 are being 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. Quantity of overburden generated for the period April 2015 to Sept-2015 is as below. ML-I : 17054.00 m <sup>3</sup> ML-II : 45655.63 m <sup>3</sup> 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.
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)	Garland drain of appropriate size, gradient and length is constructed all around the mine pit and sump of sufficient storage capacity made by taking all safety measures. <b>Photograph of Garland Drain at Mines:</b>

	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.	At present there is no inter burden strata within the mines, hence inter burden benches are not required within the working quarries. Toe bund shall be constructed at the dump site to check the run-off and siltation, wherever required.
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 for post monsoon period submitted to Regional Director, CGWB and Regional Director, MoEF and MPPCB Bhopal vide our letter dtd.28.07.2015.
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.
XX	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 75850 nos. of sapling have been planted upto FY 2015-16 (upto Sept) in Cement Plant & Mines Area. The total area covered under plantation in Cement Plant area is about 21.2 ha and in Mines the area covered is about 10.5 ha. Further plantation in Plant and Mines area is ongoing process.

		Processor de formente
	All the recommendations of the Corporat Responsibility or Environmental Protection (CREF	
XXII	for cement plant shall be strictly followed.	(CREP) for cement plant are followed.
	<u>Charter on Corporate Responsibility for E</u>	nvironmental Protection (CREP)
Sr. No.	CREP Conditions	Status of Compliance
1	<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> </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 50 mg/Nm3.
2.	Cement Plants located in critically polluted or urban areas (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.	We are complying standard of particulate matter of 50 mg/Nm3 as prescribed by the MPPCB.
3.	The new cement kilns to be accorded NOC/ Environmental Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/Nm3 for particulate matter emissions.	Environment Clearance is obtained and meeting the prescribed norms 50 mg/Nm3.
4.	CPCB will evolve load based standards by December 2003.	Not Applicable.
5.	CPCB and NCBM will evolve SO2 and NOx emission standards by June 2004.	CPCB is prescribed the SO2 and NOx emission standards for cement plant.
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	The continuous Emission monitoring systems are installed at Kiln & Raw mill Bag House, Cooler ESP
	monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit	and coal mill stacks and working efficiently. The
	operation/sections for installation of continuous monitoring	Real time data of CEMS is uploaded in CPCB and
	equipment. The industry will install the continuous	Company web site.
	monitoring systems (CMS) by December 2003.	
9.	Tripping in kiln ESP to be minimized by July 2003 as per the	We have installed bag house for the Kiln & Raw Mill
	recommendation of NTF.	and Coal mill .Trippings is not applicable.
10.	Industries will submit the target date to enhance the	As, we are manufacturing clinker only. Therefore,
	utilization of waste material by April 2003.	solid waste material such as fly ash is not generated/
		consumed. We have submitted application to getting
		permission for the utilization of hazardous/ plastic waste in cement Kiln. After getting permission same
		to be followed.
11.	NCBM will carry out a study on hazardous waste utilization in	Noted and to be followed.
	cement kiln by December 2003.	
12.	Cement industries will carry out feasibility study and submit	Feasibility study will be carried out for co-generation
	target dates to CPCB for co-generation of power by July	of power.
	2003.	
	Vehicular emissions shall be kept under control and	
	regularly monitored. Measures shall be taken for	r area have valid PUC certificate. The vehicles
XXIII	maintenance of vehicles used in mining operation	s are used for transportation of mineral are
XXIII	and in transportation of mineral. The vehicles sha	II avoided overloading. The vehicles are
	be covered with a tarpaulin and shall not b	5
	overloaded.	5 5
	Digital processing of the entire lease area usin	g The digital processing of entire lease area
	remote sensing technique shall be done regular	
	once in three years for monitoring land use pattern	
XXIV		· · ·
VVIA	and report submitted to Ministry of Environmen	5
	and Forests and its Regional Office, Bhopal.	been submitted to Regional office, MoEF
		Bhopal, Member Secretary, MPPCB, Bhopal
		and Zonal Officer, CPCB. Bhopal.
	A Final Mine Closure Plan along with details of	
	Corpus Fund shall be submitted to the Ministry c	f Corpus fund of ML-I & ML-II has been
XXV	Environment & Forests 5 years in advance of fina	I submitted to IBM dated 02.05.2011.
	mine closure, for approval.	
	Necessary permission and recommendation of th	e District forest officer, Satna vide letter No.
	State Forests department shall be obtained	
	regarding impact of the proposed cement plant an	
<u> </u>	mining on the surrounding reserve and protecter	<b>e</b> .
XXVI	forests and suggested conservation plan shall b	
	implemented.	National Park , Wild life Sanctuaries,
		Biospheres reserves, wild life corridors,
		Tiger/Elephant reserves and migratory paths
		/roots within 10 KM radius.
W	The company shall comply with all th	e Commitments made during public hearing
XX	commitments made during public hearing o	
VII	21.12.2008	compensation as per rules and jobs provided
L		

		to related land users 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 labour 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 CONDITI	ONS
	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.
III	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, quarterly 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 least 30-40 years. The program shall include lung	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 out and record

	function and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	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 Group 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. 8.90 Lacs has been incurred in the financial year 2014-15 towards CSR and Eco development activities such as sports promotion, Construction and renovation of temple at Phutaundha and Batkhar Village, Organizing Eye Camp in Kotar Village, Part Construction of Kamadgiri Parikrama at Kamta Nath Mandir at Chitrakoot and house- keeping annual expenditure etc.
VIII	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP.	Yes, We are complying with all the environmental protection measures and safeguards as recommended in the EIA/ EMP.
іх	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	Yes, We are submitting six monthly reports on the status of compliance as per stipulated EC conditions.

	e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	
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.

	/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.	
	The project authorities shall advertise at least in	Advertised in the News paper "The Desh
	two local newspapers widely circulated, one of	Bandhu, The Nav Bharat & The Dainik
	which shall be in the vernacular language of the	Bhaskar" on Dt. 28.07.2009.
	locality concerned, within 7 days of the issue of the	
	clearance letter informing that the project has been	
XIX	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.	
	The environmental statement for each financial	Environmental statement of last year 2014-
	year ending 31 <sup>st</sup> March in Form-V as is mandated to	15 was submitted on dated 10.09.2014
	be submitted by the project proponent to the	
	concerned State Pollution Control Board as	
V/V	prescribed under the Environment (Protection)	
XX	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.	
	The Ministry or any other competent authority may	Noted and agreed.
XXI	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.	
	The Ministry may revoke or suspend the clearance	Noted and Agreed.
XXII	if implementation of any of the above conditions is	
,,,,,,,	not satisfactory.	
	Any other conditions or alteration in the above	Noted and Agreed
XXIII	conditions shall have to be implemented by the	-
	project authorities in a time bound manner.	
	Any appeal against this environmental clearance	Noted and Agreed.
	shall lie with the National Environment Appellate	
XXIV	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.	
	The above conditions shall be enforced, inter-alia under	Noted and Agreed.
XXV	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, as provided by CPCB and submit report to Ministry and its Regional Office. We have zero effluent discharge, so water monitoring devices 24 x 7 is not applicable for us.
2.	The company shall obtain fresh Environmental Clearance in case of any change in the scope of the project.	Being followed.

S. R JHA Dy. Manager (Env) For Bhilai Jaypee Cement Ltd. (Babupur) Satna

B around

B.K. Agrawal Joint President (Tech) (Authorized Signatory)