## CHUNAR CEMENT FACTORY

(A UNIT OF UP CEMENT PLANT)



JAL/CCF/EC- COMP-09/2023-24

November 11, 2023

To,
Director,
Regional Office (C),
Ministry of Environment & Forest (MoEF),
Lucknow (UP).

Sub: Revival & Expansion of Cement Grinding Unit (1.60 to 2.50 MTPA Portland Pozzolana Cement) along with a Captive Power Plant (38 MW) at Chunar, District Mirzapur, Uttar Pradesh by M/S Jai Prakash Associates Ltd. (Chunar Cement Factory)- Environment Clearance reg.

Reference: Your Letter No. F.No.J-11011/557/2007-IA II (i) Dated 19.12.2008

Dear Sir,

This has the reference to your above referred letter on the subject matter. In this connection, we are submitting herewith Point wise status of Compliance for your information and reference Please.

Thanking you,

Yours faithfully

FOR CHUNAR CEMENT FACORY

(A Unit of Jaiprakash Associates Ltd.)

(R.M.VERMA) VICE PRESIDENT

CC: Member Secretary, Central Pollution Control Board, New Delhi. Member Secretary, U.P. Pollution Control Board, Lucknow (UP). Regional Office, U.P. Pollution Control Board, Robertsganj (UP).



Works-CCF: Chunar, P.O. Chunar Cement Factory, Distt. Mirzapur (U.P.) 231 311

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Regd. Office: Sector 128, Noida - 201 304 U.P. (India)

Name of the Project: Chunar Cement Factory, (A unit of Jaiprakash Associates Ltd.) For Cement Grinding Unit (2.5 MTPA) and Captive Power Plant (38 MW), at Chunar, Distt. Mirzapur, U.P. 231311

Project Code: UP-117-301-2009

Clearance Letter from MOEF Government of India Ref. No.: F. No.J-11011/557/2007-IA II (I) Dt. 19.12.2008

Period of Compliance Report :- (April 2023 to September 2023)

SPECIFIC CONDITIONS

	_	_	_	_				_		
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and/ or operation.	be obtained prior to commencement of construction	from the U.P. Pollution Control Board (UPPCB) shall	Departments including "No objection Certificate"	statutory clearances from the concerned	construction and/or operation. Other necessary	(UPPCB) shall be obtained prior to commencement of	00000	concerned Departments including 'No Objection	All the other necessary statutory clearances from the	
							H	Sta	No	

## COMPLIANCE STATUS

Tate Pollution Control Board, prior to commencement of construction and for operations are as o Objection certificate and all the statutory clearances which have already been taken from the

- 1. No Objection Certificate from UPPCB obtained vide letter no. F 46396/C-2/NOC/3451/09 on dated 19/03/2009. Copy has already been submitted to MoEF vide our letter no. JAL/CCF/Env.12/2010 dated 30.11.2010.
- Consent to Operate under Air (Prevention & control of pollution) Act 1981 and under Pollution Control Board Water (Prevention & Control of Pollution) Act 1974 is being obtained regularly from State

## 1. Captive Power Plant (38 MW):-

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Electrostatic precipitator (ESP) to captive power

plant (CPP) and highly efficient bag filters at other

including cement grinding mill shall be

- efficiently and emission level has been observed to be well within prescribed limits commissioned along with CPP on 23/07/2009 since then it has been running very ESP has been installed at CPP since the inception of the plant and it has been (29 to 35 mg/Nm<sup>3</sup>).
- H controlling the fugitive emissions. Total 5 Nos installed. Apart from ESP various pulse jet bag filters have also been provided for arresting,
- Ħ installed in CPP stack. On-line suspended particulate matter emission monitoring equipment has been
- 2. Cement grinding, Packing plant, Truck Tipplers for unloading of fly ash coal & clinker & Wagon tipplers for unloading clinker, coal & gypsum :-
- At all locations dedicated high efficiency pulse jet bag filters have been installed filters installed at various locations are as underobserved to be lowest of the lower i.e. 22-26 mg/Nm<sup>3</sup>. The details of the bag for arresting dust emission emanating from these locations. The emission level is
- Cement grinding- 46 nos

Regional

regularly

automatically and reports submitted to the Ministry's

Office at Lucknow, CPCB and UPPCB

not working, the resources unit(s) is shut down that in the event of the pollution control equipment be provided in the pollution control equipment so shall exceed 50 mg/Nm3. Interlocking facility shall At no time, the stack emissions from various sources conform to the standards prescribed by the UPPCB. particulate matter emissions from various units shall emissions shall be installed. The gaseous and mg/Nm3. Continuous on-line monitors for particulate provided to control gaseous emissions within 50

- Packing plant-10 nos
- ΨÞ Fly ash truck tipplers- 8 nos
- Qlinker truck tippler- 1 no Coal truck tippler- 5 nos

CCF, ENVIRONMENT CLEARANCE COMPLIANCE

PAGE 1

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,	tipplers-
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a) Metso wagon tipplers-10 nosb) TRF wagon tipplers- 05 nos

installed in all the stacks of cement grinding mills. II) On-line suspended particulate matter emission monitoring equipments have been

Emission monitoring reports are being sent to regional office MoEF, CPCB and UPPCB

September 2023 is given in the following table:-Average, Min & Max of Stack Monitoring data for the period April 2023 to

	-		_	_		_						_		_					
Ambient																			
air																			
quality																			
monitoring																			
stations																			
(AAQMS)																			
Ambient air quality monitoring stations (AAQMS) 1. Five Ambient Air quality monitoring stations have been set up in consultation with the U.P.		Min.					MAX					AVG			Standard	CPCB /UPPCB		II III	
Air quality n		18.60		STATE OF STA			21.20					20.02			mg/Nm <sup>3</sup>	30	MILL - 1	CEMENT	
nonitoring st		18.60					21.50					20.43			mg/Nm <sup>3</sup>	30	MILL - 2	CEMENT	Partic
ations have		16.80					20.40					18.72			mg/Nm <sup>3</sup>	30	MILL - 3	CEMENT	Particulate Matter (mg/Nm³)
been set up		17.50					22.30					20.02			mg/Nm <sup>3</sup>	30	MILL - 4	CEMENT	r (mg/Nm³)
in consulta		18.50					21.70					20.22			mg/Nm <sup>3</sup>	30	MILL - 5	CEMENT	
ition with th		17.80					21.60					19.73			mg/Nm <sup>3</sup>	30	MILL - 6	CEMENT	
le U.P	down	operation	not	Plant was	down	al /shut	operation	not	Plant was	down	al /shut	operation	not	Plant was	mg/Nm <sup>3</sup>	50	BOILER	C.P.P.	

1. Five Ambient Air quality monitoring stations have been set up in consultation with the U.P. Pollution Control Board.

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shall be set up as per statutory requirement in

consultation with the U.P. Pollution Control Board

on regular basis. installed and working remaining three nos are off -line and readings are being taken manually Out of 5 Ambient Air Quality monitoring stations, two no online monitoring equipment

2. Instrument used for ambient air quality/stack monitoring are calibrated timely as per the guideline of Pollution Control Board.

CCF, ENVIRONMENT CLEARANCE COMPLIANCE

ambient air quality and shall be carried out regularly under EPA or by the State authorities. Monitoring of

levels shall not exceed the standards stipulated

(UPPCB). Ambierit air quality including ambient noise

PAGE 2

air quality monitoring shall be calibrated time to UPPCB regularly. The instruments used for ambient the Ministry's Regional Office at Lucknow, CPCB and in consultation with UPPCB and data submitted to

AVG. NO <sub>x</sub>	AVG. SO <sub>2</sub>	AVG.PM <sub>2.5</sub>	AVG.PM <sub>10</sub>	Parameters	Locations
19.73	12.31	14.02	49.11		NEAR CPP DM PLANT
19.77	12.32	13.73	48.59		NEAR WATER STORAGE TANK
19.54	11.94	13.73	48.45		NEAR FIELD HOSTAL FH- 1B
80 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>	60 µg/m <sup>3</sup>	100 µg/m <sup>3</sup>		CPCB /UPPCB Standard

- V The fugitive emissions during loading and unloading shall be suitably controlled. Bag filters shall be shall be made in the raw material stock yard and closed roof sheds. Water sprinkling arrangement cement bag loading areas. areas. The company shall install adequate dust movement etc. storage of raw material shall be in transfer points, hoppers, loading points, vehicular places collection and extraction system at appropriate provided to control fugitive dust from raw material to control fugitive dust emissions from
- < monitored. Guidelines/code of Practice issued by the shall be within the prescribed limits and regularly Secondary fugitive emissions shall be controlled and CPCB in this regard shall follow.

- 1. Efficient dust collectors (Bag Filters) are installed at loading & unloading points i.e. Clinker, fly ash & coal loading for arresting fugitive emission.
- The raw material (Clinker, Gypsum & Fly ash) stored in covered shed
- 3. Water sprinklers are provided at coal stock yard and at other strategic points
- For further bringing down fugitive emission generating due to vehicle movement in packing also being repaired. plant and other locations – water spray system is being strengthened and damage road is
- emanating due to road transport. Water spray is being done on roads for controlling the secondary fugitive emission
- ω 2. Road sweeping is done by mechanical road sweeping Machines. All the swept material is collected and reused in the cement process
- Guidelines/code of Practices issued by the CPCB in this regard is followed

er 2023 and same is being submitted regularly to board for assessing water cess against consumption.	He e	H	<ol> <li>The Water consumption is not exceeding beyond the limit i.e. 304480 KL/Annum. Avg. Water consumption has been 680.44 KL/Day for the period April 2023 to September</li> </ol>
ne consumption.	er		2023 and same is being submitted regularly to board for assessing water cess again
	ne	0	consumption.

No effluent is being generated from the process. The plant has been designed and operated on Zero discharge basis. All the water is being used in the process for cooling purpose only

and make-up water is being added against evaporation from the cooling tower.

STP has been installed/ commissioned for treating domestic waste water from ni

STP has been installed/ commissioned for treating domestic waste water from plant and colony. The treated water is used for water sprinkling and tree plantation. Test results analyzed in – house of the treated domestic waste water conform to the standards prescribed in the consent. Avg. STP Treated Water Result for the period April 2023 to September 2023 is as under:-

STP	CPCB /UPPCB Standard	Parameter
7.59	5.5 - 9.0	PH
19.44	100 mg/l	TSS, mg/I
20.75	30 mg/l	TSS, mg/l BOD (20°C, 5 days), mg/l
94.71	250 mg/l 10 mg/l	COD, mg/l
0.3	10 mg/l	0 & G, mg/l

 For ensuring the efficient running and improving further efficacy of the system annual maintenance contract with OEM planned and executed on regular basis as per maintenance contract.

. The dust collected from air pollution control device is being recycled in the process.

All the solid waste collected in different collection

Solid waste generated from sewage treatment plant is being utilized as manure for green belt development.

Used waste oil and grease is collected and stored in a shed as per Hazardous and Other Wastes (Management and Tranboundary Movement) Rules, 2016 and sold to the Authorized recyclers i.e. Bharat Oil Company, Kanpur.

No Fly ash generated from our captive power plant during **April 2023 to September 2023** as CPP was not in opration. Fayash has been used for cement manufacturing. For Fly ash Handling, Pneumatic System has been installed to prevent fugitive emissions.

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Proper utilization of fly ash shall be ensured as per

recyclers/preprocessors.

provided

authorized

systems shall be recycled and reutilized in the cement plant itself. Sludge from the sewage treatment plant (STP) shall be used as manure for green belt development. Waste oil and grease shall

amendment in 2003. Fly ash generated from captive

ash Notification, 1999 and subsequent

Portland Pozzolana Cement (PPC). The utilization

power plant (CPP) shall be used for manufacturing

plan shall be submitted to the Regional Office at

Lucknow within three months

X As provided area in impactions area in impactions and sure and sure and sure and sure and sure and far and far mobile crèche tempor complex.  GENE  No fur shall b Ministry  1.			The state of the s					T				
Green belt has already been fresh plantation is regularly for JAL/CCF/ENV.12/2010 dated April 2023 to September  Total plantation in Nos.  We are complying with all the No.4080 Dt.12/5/2008 Details have already been suggested (CREP) have been complied volumentations mentioned (CREP) have been complied volumentations made by U.P. Poladhered to.  Stipulations made by U.P. Poladhered to.  Agreed and Noted.  Adequate noise control measures average value in dB (A) of Ambien	■				À	TIX	×			×		×
Green belt has already been developed in 33% area around the project: fresh plantation is regularly followed. Details have already been submitted JAL/CCF/ENV:12/2010 dated 30.11.2010. Details of the fresh Tree Plant April 2023 to September 2023 are as under  Total plantation in Nos. Of Plant survived Percentage 37000  We are complying with all the conditions as stipulated by State Forest Deptember 2023 are already been submitted vide our letter no. JAL/CCF/ENV:12/: 30.11.2010.  Recommendations mentioned in the Corporate Responsibility for Environm (CREP) have been complied with.  Construction phase is over now and hence not applicable. However all the are being provided with.  Construction phase is over now and hence not applicable. However all the are being provided with.  Agreed and Noted.  Agreed and Noted.  Adequate noise control measures have been taken. The noise level is within average value in dB (A) of Ambient noise level of Six months are as under:	The overall noise levels in and around the plant area shall be kept well within the standards (85 dB) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise concertion.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	The project authority shall adhere to the stipulations made by U.P. Pollution Control Board (UPPCB) and State Government.	GENERAL CONDITIONS	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.	The company shall provide housing for construction	All the recommendations mentioned in the Corporate Responsibility for Environment Protection (CREP) guidelines shall be followed and implemented.	and suggestions made, if any, shall be implemented.	Department regarding impact of proposed expansion of the reserve forest viz. NUAON shall be obtained	Permission and recommendations of the State Forest		As proposed, green belt shall be developed in 33% area in the around the project site to mitigate the impact of air emissions as per CPCB guidelines in consultation with DFO.
	Adequate noise control measures have been taken. The noise level is with average value in dB (A) of Ambient noise level of Six months are as under:	Agreed and Noted.	Stipulations made by U.P. Pollution Control Board (UPPCB) and State Cadhered to.		Construction phase is over now and hence not applicable. However all the are being provided with.		Recommendations mentioned in the Corporate Responsibility for Environ (CREP) have been complied with.	30.11.2010.	No.4080 Dt.12/5/2008  Details have already been submitted vide our letter no TAI /CCF/ENIV 17	We are complying with all the conditions as stipulated by State Forest D	Nos. Of Plant survived Su 36400	

									THE REAL PROPERTY.
			≤.	<	₹				
			The company shall undertake eco-development measures including community welfare measures in the project area.	Rain water harvesting water measures shall be adopted for the augmentation of ground water, Besides, company must also harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Proper housekeeping and adequate occupational health programs shall be taken up.			mental (Protection) Act, 1986 z. 75 dB (day time) and 70 dB	confirm to the standards under
	Tot	4. For Eco-deve Factory. Deta are as under	1. We are areas of 2. To encount their re	1. Rain Water Details have 30.11.2010.	1. Proper initiated 2. Regular 3. 115 em during i	Night Time	Day Time	Location	
/1350	Total plantation Nos.	For Eco-development, we Factory. Details of Tree Plance as under.	We are providing free medicines, areas of Chunar Cement Factory. To encourage meritorious studer their respective fields.	Rain Water harvesting sys Details have already been 30.11.2010.	Proper housekeeping is be initiated to improve house Regular medical checkup of 115 employees have been during the period of April of the April of the April of the period of April of the Apr	56.2	62.8	Mill	
	on Nos.		free medi ement Fac eritorious s elds.	sting syste dy been si	ing is bein he house k heckup of live been e of April 20	52.2	57.3	Despatc h Gate	
	Nos. Of	For Eco-development, we have Planted trees on both sides of roads, outside the Factory. Details of Tree Plantation for the April 2023 to September 2023. are as under.	cines, educ ctory. students, w	<ol> <li>Rain Water harvesting system has been installed for storm water.         Details have already been submitted vide our letter no. JAL/CCF/ENV.12/2010 dated 30.11.2010.     </li> </ol>	Proper housekeeping is being ensured in plant & colony area. Further action initiated to improve house keepings further.  Regular medical checkup of the employee is being done by company doctor. 115 employees have been examined and no occupational disease has been during the period of April 2023 to September 2023.	55.2	62.2	Packing Plant Office	
1315	Nos. Of Plant survived	trees on he April 20	ation and le are prov	n installed de our lett	in plant & ther. /ee is being nd no occu eptember	52.8	58.0	E.S.P in CPP	
	ved	both sides 023 to S	drinking w	er no. JAL,	done by pational di 2023.	46.0	51.3	Central Store	
9/	Surviva	of roads,	rater to the	water. /CCF/ENV	a. Furthe company isease ha	40.8	46.5	Town Ship Gate	
9/%	Survival rate in Percentage	outside or 2023	ne people to shap	1.12/2010	doctor. s been n	41.3	47.2	CPP	
		have Planted trees on both sides of roads, outside the premises of antation for the April 2023 to September 2023.	We are providing free medicines, education and drinking water to the people of surrounding areas of Chunar Cement Factory.  To encourage meritorious students, we are providing financial help to shape the carrier in their respective fields.	0 dated	Proper housekeeping is being ensured in plant & colony area. Further actions are also being initiated to improve house keepings further.  Regular medical checkup of the employee is being done by company doctor.  115 employees have been examined and no occupational disease has been noticed so far during the period of April 2023 to September 2023.	70 dB (A)	75 dB (A)	CPCB /UPPCB Standard	

2	×	₹		≦
the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the U.P. Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	The regional Office of this Ministry at Lucknow/CPCB/UPPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	As proposed, Rs. 27.00 and Rs. 7.00 Crores shall be earmarked towards capital cost and recurring cost/annum respectively for environment pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executives
on 19/12/2008 and same was published in local news paper in Hindi as well as English on dated 08.01.2009 & 25.01.2009 respectively. Copies already submitted vide our letter dated 17/05/2010.		A six monthly compliance report and the monitored data are submitted regularly to the regional Office of the Ministry at Lucknow/CPCB/UPPCB. The previous EC compliance report was submitted vide letter No. JAL/CCF/EC- COMP -02/2022-23, Dated 15 MAY, 2023. As per MOEF & CC notification no5845 (E) new Delhi dated 26 November 2018, Only soft copy of Six Monthly compliance is submitted through e-mail, to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB	A separate fund has been earmarked for environment pollution control measures as given below: Capital cost for Pollution Control Equipments is Rs. 27 crores and Recurring cost Rs. 20.35 Lakh (approx cost) during April 2023 to September 2023.	Separate environmental management cell has already been set up under the control of senior executive for undertaking various jobs for prevention & control of environmental pollution. Organizational Chart of Environmental Management Cell had already been submitted to vide our letter no. JAL/CCF/ENV.12/2010 dated 30.11.2010.

	11.0	10.0	9.0	8.0	7.0	
	The above conditions shall be enforce, 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.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	Any other condition or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	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 located at Bhopal.	Regional officer at Bhubaneswar.
//						
	Noted and agreed	Noted and agreed	Noted and agreed	Noted and agreed	Noted and agreed	
September 1						