CHUNAR CEMENT FACTORY

(A UNIT OF UP CEMENT PLANT)



JAL/CCF/EC- COMP-02/2022-23

To.

May 14, 2022

Director,

Regional Office (Central Region),

Ministry of Environment, Forest & Climate Change (MoEF & CC),

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: MoEF&CC, Environmental Clearance Letter No. F.No.J-11011/557/2007-IA II (i) Dated 19.12.2008

Dear Sir,

With reference to above mentioned Environmental Clearance letter vide dated 19.12.2008, we are pleased to enclosed herewith the Six Monthly EC Compliance Report of the conditions contained in the Environmental Clearance for the period October' 2021 to March' 2022 as per the guidelines.

Kindly acknowledge the same.

Thanking you,

Yours faithfully

FOR CHUNAR CEMENT FACORY

(A Unit of Jaiprakash Associates Ltd.)

(R.K.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).

Encl: As Stated above

JAYPEE

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

Ph.: +91 (5443) 222568, Fax: +91 (5443) 222700

Head Office: 'JA House' 63 Basant Lok, Vasant Vihar, New Delhi - 110 057 (India) Ph.: +91 (11) 26141540, 26147411 Fax: +91 (11) 26145389, 26143591

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 : (October 2021 to March 2022)
S.N 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	Certification' from the U.P. Pollution Control Board under	concerned Departments including 'No Objection State	All the other necessary statutory clearances from the No C	
			N				unde	State	No C	

COMPLIANCE STATUS

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

- 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 Water (Prevention & Control of Pollution) Act 1974 is being obtained regularly from State Pollution Control Board

Captive Power Plant (38 MW):-

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Electrostatic precipitator (ESP)

to captive power

- ESP has been installed at CPP since the inception of the plant and it has been commissioned along with CPP on 23/07/2009 since then it has been running very efficiently and emission level has been observed to be well within prescribed limits (33 to 48 mg/Nm³).
- Ħ. controlling the fugitive emissions. Total 5 Nos installed Apart from ESP various pulse jet bag filters have also been provided for arresting/
- H. On-line suspended particulate matter emission monitoring equipment has been installed in CPP stack.
- 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 for arresting dust emission emanating from these locations. The emission level is observed to be lowest of the lower i.e. 22-26 mg/Nm³. The details of the bag filters installed at various locations are as under-
- Cement grinding- 46 nos

regularly

not working, the resources unit(s) is shut down automatically and reports submitted to the Ministry's Regional Office at Lucknow, CPCB and UPPCB

shall exceed 50 mg/Nm3. Interlocking facility shall

At no time, the stack emissions from various sources

be provided in the pollution control equipment so that in the event of the pollution control equipment plant (CPP) and highly efficient bag filters at other places including cement grinding mill shall be provided to control gaseous emissions within 50 mg/Nm3. Continuous on-line monitors for particulate emissions shall be installed. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the UPPCB.

- 3- Packing plant-10 nos
- Fly ash truck tipplers- 8 nos
- D- Clinker truck tippler- 1 no
- Coal truck tippler- 5 nos

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CHUNAR CEMENT PACTOR (A unit of Jaiprakash Association Pakaibad, P.O. AGE 1
Villago Pakaibad, P.O. 231

7 Wagon tipplers-

a) Metso wagon tipplers-10 nos

b) 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 Average, Min & Max of Stack Monitoring data for the period October 2021 to March 2022 regularly.

is given in the following table:-

CPCB /UPPCB 30

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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

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

to March 2022 are as under (All values in µg/m³):-At present Ambient air quality is being monitored through off-line equipments at 3 locations & quality are well within prescribed limit. The average AAQMS data for the period October 2021 report of the same is being sent to UPPCB on regular basis. All the parameters for ambient air

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

ambient air quality and shall be carried out regularly

levels shall not exceed the standards stipulated

(UPPCB). Ambient air quality including ambient noise consultation with the U.P. Pollution Control Board

under EPA or by the State authorities. Monitoring of

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CHUNAR CEMENT FACTOR Village Bakaibad, P.O. Co (A unit of Jaiprakash Associa-PAGE 2

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Consider from missions shall be and all all and	The fugitive emissions during loading and unloading shall be suitably controlled. Bag filters shall be provided to control fugitive dust from raw material areas. The company shall install adequate dust collection and extraction system at appropriate places to control fugitive dust emissions from transfer points, hoppers, loading points, vehicular movement etc. storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	
- William I	 Efficient dust collectors fly ash & coal loading fo The raw material (Clinke Water sprinklers are pro For further bringing dov plant and other location also being repaired. 	Parameters AVG.PM ₁₀ AVG.SO ₂ AVG.NO _x
	ist collectors (Bag bal loading for arre- aterial (Clinker, Gyn klers are provided bringing down fug other locations – w repaired.	PLANT 46.01 22.90 14.51 16.77
	Efficient dust collectors (Bag Filters) are installed at fly ash & coal loading for arresting fugitive emission. The raw material (Clinker, Gypsum & Fly ash) stored Water sprinklers are provided at coal stock yard and For further bringing down fugitive emission generat plant and other locations — water spray system is also being repaired.	45.57 18.61 14.19 16.94
STOREST STORES OF THE PROPERTY OF THE STORES	 Efficient dust collectors (Bag Filters) are installed at loading & unloading pointly ash & coal loading for arresting fugitive emission. The raw material (Clinker, Gypsum & Fly ash) stored in covered shed. Water sprinklers are provided at coal stock yard and at other strategic points. For further bringing down fugitive emission generating due to vehicle moven plant and other locations – water spray system is being strengthened and calso being repaired. 	17.55 11.53 14.18
	 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. 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 plant and other locations – water spray system is being strengthened and damage road is also being repaired. 	Standard 100 µg/m³ 60 µg/m³ 80 µg/m³ 80 µg/m³

- packing e road is
- Water spray is being done on roads for controlling the secondary fugitive emission emanating due to road transport.

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shall be within the prescribed limits and regularly Secondary fugitive emissions shall be controlled and

monitored. Guidelines/code of Practice issued by the

CPCB in this regard shall follow.

- 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

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PAGE 3

sewage treatment plant (STP).	
wastewater in plant and township shall be treated in	
'Zero' discharge shall be strictly adopted. Domestic	
belt development and other plant related activities.	
and all the treated effluent shall be utilized for green	
discharged from the process outside the premises	
at Lucknow/CPCB/UPPCB. No effluent shall be	
shall be submitted to the Ministry's Regional Office	
dated 18th September, 2007. A copy of the same	
State Ground Water Board, Mirzapur, vide letter	
3,000 m³/day as per 'Permission' accorded by the	
Total ground water requirement shall not exceed	\\

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		110000	227-1
			-
consumption.	and same is being submitted regularly to board for assessing water cess against	Water consumption has been 785.86 KL/Day for the period October 2021 to March 2022	1. The Water consumption is not exceeding beyond the limit i.e. 304480 KL/Annum. Avg.

		10
and make-up water is being added against evaporation from the cooling tower.	on Zero discharge basis. All the water is being used in the process for cooling purpose only	No effluent is being generated from the process. The plant has been designed and operated

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 October 2021 to March 2022 is as under:-

STP	CPCB /UPPCB Standard	Parameter
7.73	5.5 - 9.0	PH
31.12	100 mg/l	TSS, mg/l
18.22	30 mg/l	BOD (20°C, 5 days), mg/l
80.80	250 mg/l	COD, mg/l
0.80	10 mg/l	0 & G,

- 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.
- maintenance contract.

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

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- belt development. Solid waste generated from sewage treatment plant is being utilized as manure for green
- Used waste oil and grease is collected and stored in a shed as per Hazardous and Other Authorized recyclers i.e. Bharat Oil Company, Kanpur. Wastes (Management and Tranboundary Movement) Rules, 2016 and sold to the

Fly ash generated from our captive power plant i.e. **54.58 TPD** (Total fly ash generation during October 2021 to March 2022 is **9891.42 MT**) has been used for cement manufacturing. For Fly ash Handling, Pneumatic System has been installed to prevent fugitive emissions.

Proper utilization of fly ash shall be ensured as per

ash Notification,

1999 and

subsequent

recyclers/preprocessors

provided

o

the

authorized

green belt development. Waste oil and grease shall

All the solid waste collected in different collection systems shall be recycled and reutilized in the

Sludge from the sewage

cement plant itself.

amendment in 2003. Fly ash generated from captive power plant (CPP) shall be used for manufacturing Portland Pozzolana Cement (PPC). The utilization

plan shall be submitted to the Regional Office at

Lucknow within three months.

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1			(FIDECTION) ACT, 1900 KUIES, 1909 VIZ. /3 OB (Ody	
The noise level is within the norms The months are as under:	es have been taken. The nois ent noise level of Six months a	Adequate noise control measures have been taken. The noise level is will average value in dB (A) of Ambient noise level of Six months are as under:	levels in and around the plant area levels in and around the plant area within the standards (85 dB) by control measures including acoustic enclosures etc. on all sources of The ambient noise levels shall standards under Environmental	≡
		Agreed and Noted.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	==
3) and State Government	.P. Pollution Control Board (UPPCB) and State Government are fully	Stipulations made by U.P. F adhered to.	The project authority shall adhere to the stipulations made by U.P. Pollution Control Board (UPPCB) and State Government.	
			GENERAL CONDITIONS	В.
However all the required a	Construction phase is over now and hence not applicable. However all the required amenities are being provided with.	Construction phase is over are being provided with.	The company shall provide housing for 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.	ă
lity for Environment Protec	Recommendations mentioned in the Corporate Responsibility for Environment Protection (CREP) have been complied with.	Recommendations mentioned in (CREP) have been complied with.	All the recommendations mentioned in the Corporate Responsibility for Environment Protection (CREP) quidelines shall be followed and implemented.	X
State Forest Deptt. vide let \$\L/CCF/ENV.12/2010 datec	We are complying with all the conditions as stipulated by State Forest Deptt. vide letter vo.4080 Dt.12/5/2008 Details have already been submitted vide our letter no. JAL/CCF/ENV.12/2010 dated 30.11.2010.	We are complying with all t No.4080 Dt.12/5/2008 Details have already been 30.11.2010.	Permission and recommendations of the State Forest Department regarding impact of proposed expansion of the reserve forest viz. NUAON shall be obtained and suggestions made, if any, shall be implemented.	×
Percentage 90 %	1476	Nos.		S
Ind the project site. The position of the project site. The position is a project site. The position is a project site. The position is a project site. The project site. The position is a project site. The project site.	Green belt has already been developed in 33% area around the project site. The process of fresh plantation is regularly followed. Details have already been submitted vide our letter no. JAL/CCF/ENV.12/2010 dated 30.11.2010. Details of the fresh Tree Plantation done during October 2021 to March 2022 are as under.	Green belt has already bee fresh plantation is regularly JAL/CCF/ENV.12/2010 date October 2021 to March 202	area in the around the project site to mitigate the impact of air emissions as per CPCB guidelines in consultation with DFO.	×

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are a	er actions	a. Furthe	colony are	in plant & o	g ensured	oing is being is being is being is being is being is being in the bein	ousekeep	 Proper housekeeping is being ensured in plant & colony area. Further actions are also being initiated to improve house keepings further. 	Proper housekeeping and adequate occupational health programs shall be taken up	₹
70 dB (A)	62.0	33.7	42.0	65.7	59.8	52.8	61.0	Night Time		
75 dB (A)	68.7	43.0	50.3	71.5	65.3	58.3	66.7	Day Time	70	
CPCB /UPPCB Standard	CPP Office	Town Ship Gate	Central Store	E.S.P in CPP	Packing Plant Office	Despatc h Gate	Mill House	Location		
									time) and 70 dB (night time)	

- during the period of October 2021 to March 2022.
 - Regular medical checkup of the employee is being done by company doctor
- 211 employees have been examined and no occupational disease has been noticed so far
- Rain Water harvesting system has been installed for storm water 30.11.2010. Details have already been submitted vide our letter no. JAL/CCF/ENV.12/2010 dated
- areas of Chunar Cement Factory. We are providing free medicines, education and drinking water to the people of surrounding

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fresh water.

the project area

measures including community welfare measures in

The company shall undertake eco-development

recharge the ground water and use the same water

for the various activities of the project to conserve

Besides, company must also harvest the rainwater adopted for the augmentation of ground water, Rain water harvesting water measures shall be

from the roof tops and storm water drains to

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To encourage meritorious students, we are providing financial help to shape the carrier in their respective fields.

Factory. Details of Tree Plantation for the October 2021 to March 2022 are as under. For Eco-development, we have Planted trees on both sides of roads, outside the premises of

85 %	323	380
Survival rate in Percentage	Nos. Of Plant survived	Total plantation Nos.

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shall be set up under the control of Senior Executives out various management and monitoring functions A separate environmental management cell to carry

our letter no. JAL/CCF/ENV.12/2010 dated 30.11.2010 Organizational Chart of Environmental Management Cell had already been submitted to vide executive for undertaking various jobs for prevention & control of environmental pollution. Separate environmental management cell has already been set up under the control of senior

CCF, ENVIRONMENT CLEARANCE COMPLIANCE

CINAR CI st. Mirzapur (U.P.)-231 314 unit of Jaiprak AGE 614 MENT FA

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.	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 Regional officer at Bhubaneswar.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the U.P. Pollution Control	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.	silan de subilinted to them regularly.
authority may on receiving s. The above Regional Office	and Forests at be advertised within sue of the clearance newspapers that are of which one shall be he locality concerned be forwarded to the			respective Zonal Office of CPCB and the SPCB
Noted and agreed		The Project was accorded environmental clearance by the ministry of Environment & Forest 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.	Already done .Cement Plant has been running since 23 February 2008, Capative Power Plant is in operation since July 22, 2009.	of CPCB and the SPCB

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CHUNAR CEMENT FAC

(A unit of Jaiprakash Associate
Village Bakaibad, PAGEI7

Dist. Mirzapur (U.P.)-231 344

implementation of any of the above conditions is not satisfactory. * Any other condition or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner. 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. 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.	and rules.	11.0 The above con under the provi Control of Pollu and Control of F (Protection) Ac Insurance Act,	10.0 Any appeal ag shall lie with t Authority, if pre prescribed und Environment App	9.0 Any other con conditions shall project authorities	implementation satisfactory.
	0	ditions shall be enforce, inter-alia sions of the Water (Prevention and tion) Act, 1974 the Air (Prevention ollution) Act, 1981 the Environment t, 1986 and the Public Liability 1991 along with their amendments	ainst this environmental clearance he National Environment Appellate ferred within a period of 30 days as er Section 11 of the National bellate Act, 1997.	dition or alteration in the above have to be implemented by the s in a time bound manner.	implementation of any of the above conditions is not satisfactory. •
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CHUNAR CEMENT FAC

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(A unit of Jaiprakash P.O. CHINA)