## JAYPEE REWA PLANT

JAIPRAKASH ASSOCIATES LIMITED

Date: 20 Dement Division

JRP/Env./2021-22/

The Director,

Ministry of Environment, Forest & Climate Change

Govt. of India, Kendriya Paryavaran Bhawan Link Road No. 3, E-5 Ravi Shankar Nagar Bhopal – 462016 (MP)

Sub: Submission of Half Yearly Environmental Clearance Compliance Report for the Period October 2020 - March 2021 of M/s Jaiprakash Associates Ltd.

Dear Sir.

Please find enclosed herewith the Half Yearly Environmental Clearance Compliance report, in hard and soft copy, of below mentioned Mines of M/s Jaiprakash Associates Ltd.:

- Jaypee Rewa Plant: EC Reference No. J-11011/79/2003-IA-II (I) Dated April 21, 2004.
- Naubasta Lime Stone Mine (ML area 460.310 ha): EC Reference No. J-11016/202/2003-IA-II (M) Dated 6<sup>th</sup> Jan 2005.
- North North Naubasta Lime Stone Mine (ML area 171.362 ha): EC Reference No. J11015/423/2005-IA-II (M) dated 18<sup>th</sup> May 2006.
- Bankuiyan Lime Stone Mine (ML area-533.939 ha): EC Reference No.: J-11016/202/2003 IA.II (M) dated 6<sup>th</sup> January, 2005.

Thanking You

Yours Faithfully

For Jaiprakash Associates Limited

(Authorized Signatory)

CC to:

1) Zonal Officer

For information please.

Central Pollution Control Board Shankar Bhawan, 3<sup>rd</sup> Floor, North T.T Nagar,

Bhopal - (M.P.) 462016

2) Member Secretary

For information please.

Madhya Pradesh Pollution Control Board Paryavaran Parisar, E – 5, Arera Colony,

Bhopal (M.P.) 462016

3) Regional Officer

ROUP

For information please.

Madhya Pradesh Pollution Control Board, Rewa

HIG – 190 – 191 Nehru Nagar Rewa (M.P.) 486001



<u>Name of the Project:</u> Naubasta Limestone Mine ( A Unit of M/s Jaiprakash Associates Limited ) for Expansion of Mining Capacity from 3.3 MTPA to 4.0 MTPA at villages Atrauli, Gadhwa, Kachoor, Naubasta, Kauadhan, Chhijwar and Jonhigarhi, Tehsil Huzur District Rewa (M.P.)

## Project Code:

Clearance Letter No.: - J-11016/202/2003-IA-II (M) Dated 6<sup>th</sup> Jan 2005

Period of Compliance Report: October'2020 – March' 2021

## A. SPECIFIC CONDITIONS:

S No.	Conditions	Status of Compliance
I	Top soil shall be stacked properly with proper slope at ear marked site(s).	Topsoil is being stacked properly at earmarked site with proper slope & is being used for green belt development.
II	Peripheral bunds, check dams & siltation ponds of appropriate size should be constructed to arrest silt & sediments flow from the mining operations. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted & maintained. Garland drain (size, gradient & length) & sump capacity should be designed keeping 50% safety margin over & above the peak sudden rainfall & maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material.	In order to arrest silt and sedimentation flow from the mining area, a check dams/siltation ponds was constructed. The water collected has been used for sprinkling on the mine haul roads and green belt development. Sump & garland drain has been suitably designed and provided with 50% safety margin over the peak sudden rainfall. Sump with adequate capacity shall be allowed proper settling of silt material.
III	Drills should be wet operated or with dust extractors & controlled blasting should be practiced.	Drilling operation is being carried out with wet drilling. Controlled Blasting is carried out under the supervision of statutory qualified person in day time. Danger display boards are located at major approach roads to make the villagers aware about the danger zone.
IV	Crusher should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, haulage roads, transfer points etc.	Crusher is provided with adequate capacity of bag filter. Water sprinkling system has also been provided at crusher, screens & transfer points. Haul roads are kept in wet conditions round the clock by water sprinkling.
V	Plantation involving a total area of 235 ha should also be raised along the roads, dump sites etc. This includes a wide green belt along the periphery of the ML area, OB dump & along roadside within the lease area by planting native plant series in consultation with local DFO/ Agriculture Department. At least 2500 plant species /ha should be planted.	Plantation has been carried out along the roads, dumpsites and on reclaimed areas.  Plantation details with survival percentage and area covered as under;  Total Area (Ha.): 460.310 Ha.  Total Plantation: 262348  Survival Rate: 80%  % of Area Covered: 28.51
VI	OB generated shall be used to backfill the balance 304 ha of mined out area. A progressive Mine Closure Plan shall be implemented reclamation & rehabilitation programme of the mined out area shall be done.	OB generated and has been rehabilitated by back filling and subsequently spreading of top soil and carrying out the plantation. Some of the area has been rehabilitated by converting the mine pit into a water reservoir. The reclamation & rehabilitation of the abandoned mine pits have been carried out in line with progressive mine closure plan.
VII	Mining shall not intersect ground water in any part of the mine area.	The mine operation will intercept ground water aquifer and inflow of ground water into mine pit will start. This

		will be pumped out and treated for use in mining operation, dust suppression and irrigation.  An application to obtain CGWA permission for working below ground water table and for pumping of ground water has already been submitted vide ref. No. 21-4/603/MP/MIN/ 2017 dtd. 30.12.2017.
VIII	Regular monitoring of ground water level & quality should be carried out by establishing a network of existing wells & constructing new peizometers at suitable locations in project area. The frequency of monitoring should be minimum four times a year - January, pre-monsoon (April/May, monsoon (August), post monsoon (November), & winter (January) seasons for ground water level & in May for quality. Data generated from groundwater regime monitoring will be submitted to CGWB, Regional Office on an annual basis.	Regular monitoring of ground water level & its quality is being carried out. The analysis report result is well within the prescribed Standard.
IX	Digital processing of the entire lease area using remote sensing techniques should be done regularly once in 3 years for monitoring land use pattern & report submitted to MOEF & its Regional Office at Bhopal.	Study has been carried out by external agency and report is submitted to MoEF, CPCB & MPPCB vide our latter no. JAL / EC / MoEF/2013 – 14 / 5107 dated 20.05.2013.
X	A detailed mine closure plan should be submitted to MOEF five years in advance for approval.	Detailed mine closure plan shall be submitted to MoEF five years in advance.
XI	Consent to Operate should be obtained from the SPCB before commencing production.	Consent to operate granted by MPPCB vide their letter no. 5587/ TS/ MPPCB/ Mine / 2005 dated 22.03.2005 and subsequently consent is getting renewed.
XII	STP facilities shall be installed in the township & treated effluents recycled for use within the colony & for green belt development.	Two nos. of STP having capacity of 800 KLD & 400 KLD are installed in township & the waste water is treated up to tertiary level (Activated Carbon Filter, Pressure Sand Filter & Ozone treatment). Treated water is used in horticulture.
XIII	The proponent shall earmark a separate fund of 1% with a minimum of Rs. 50,000/- of the total project cost for eco- development measures including community welfare measures in the project area. The amount shall be deposited by the company in a separate account within three months to be maintained by the Madhya Pradesh State Pollution Control Board. The action plan in this regard shall be submitted to the SPCB as well as to MOEF & its Regional Office at Bhopal within three months of issue of this letter. After approval of the action plan by the SPCB, the amount deposited shall be released in two installments to the project authorities based on progress of implementation. The SPCB shall ensure that implementation of the action plan for eco-development measures is completed within two years from date of its approval by SPCB. Further, the interest accrued during this period on the amount deposited by the proponent with the SPCB shall be ploughed back to the same eco-development fund.	Eco-development measures and community welfare are taken under Comprehensive Rural Development Programme (CRDP).

## **B.** General Conditions

S No.	Conditions	Status of compliance
I	No change in technology & scope of working should be made without prior approval of the Ministry of	

	Environment & Forest.							
II	No change in the calendar plan including excavation, quantum of limestone, waste / OB dumps should be	Noted and Agreed.						
	made.  Four ambient air quality monitoring stations should be established in the core zone as well as buffer zone for SPM, RPM, NO <sub>X</sub> & SO <sub>2</sub> . Location of the ambient air quality stations should be decided on	Regular monitoring carried out of Ambient Air quality of Core zone as well as buffer zone six monthly average monitoring report for the Period October'2020 – March'						
	meteorological data, topographical features & environmentally & ecologically sensitive targets & the frequency of monitoring should be undertaken in consultation with State Pollution Control Board.	2021 given below; Core Zone:						
		Location	PM <sub>2.5</sub>	Param PM <sub>10</sub>	eters (µ SO <sub>2</sub>	ig/m³) NO <sub>X</sub>	CO	
		Near Drilling Site	26-36	46-50	9-12	12-16	98-147	
III		Location: Near L / S Loading Site	32-36	45-51	11-12	14-16	115-158	
111		Location: Near Haulage Road Near Water Pump	33-36	45-50	10-12	14-18	120-157	
		Station	32-36	46-53	10-12	14-18	108-145	
		<b>Buffer Zone:</b>				, 3,		
		Location	PM <sub>2.5</sub>	Parame PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	
		Near Sakarwat	23-28	35-47	9-11	12-15	119-143	
		Near Kachur Near Madheyapur	23-28 22-27	38-43 37-45	8-10 8-12	11-14 11-14	117-144 122-142	
		Near Garhwa	20-28	34-28	9-11	13-17	104-158	
IV	Data on Environmental Quality should be regularly submitted to the Ministry including its Regional Office at Bhopal & the State Pollution Control Board / Central Pollution Control Board once in six months.	Data on environmento the MoEF&CC Pollution Control Board, once in six monitored environal already been submit 21/47 Date: 04th No	E's Reg Board nonths. mental itted vice	ional C and Ce data o le our le	Office entral 1	at Bho Pollution	pal, State n Control	
V	Adequate measures for control of fugitive emissions should be undertaken such as water spraying arrangements on haul roads, loading & unloading points, & transportation of minerals etc. Fugitive dust emissions from all sourced should be regularly monitored & data recorded properly.	Measures have been such as water spra dust suppression of	n taken i nying ar on haul roviding	for contr rangeme roads	ents the loadin	rough ta g and	ankers for	
VI	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting & drilling operations, operations of HEMM etc., should be provided with ear plugs / muffs.	Adequate measures levels and is main environment. Wo operation and opera ear plugs/muffs.	ntained rkman	below 8 engaged	35 dB in dr	(A) in filling &	the work blasting	
VII	Industrial wastewater (workshop & wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 & 31 <sup>st</sup> December 1993 or as amended from time to time. Oil & grease trap should be installed before discharge of effluents from the workshop.	No wastewater is go The waste water go through oil and grea water conform to being used for dust	enerated ase sepa the sta	from M rator an ndards.	Iine w d settli The c	orkshop ng tank ollected	is passed and clean	
VIII	Personnel working in dusty areas should wear protective respirator devices & they should also be provided with adequate trainings & information on safety & health aspects.  Occupational health surveillance programme of the workers should be undertaken periodically & corrective measures taken, if required.	Personnel working protective respirate provided with adec and health aspec programme of the periodically and con	ory dev quate tra ets. Occ he wor rrective	ices and aining a cupation rkers heasure	d also and aw aal he nave es are ta	they hareness alth subeen unken, if a	on safety on safety reveillance indertaken required.	
IX	The data on environmental quality should be collected & analyzed either through an in-house environmental laboratory established with adequate number & type of pollution monitoring & analysis	The monitoring an are being carried environmental labor trained environment	d out oratory r	in-hou un unde	se in	well	equipped	

	equipment or got analyzed through an approved	
	laboratory under the Environment (Protection) Rules 1986 in consultation with the State Pollution Control	
	Board.	
	A separate environmental management cell with	A separate environmental management cell with suitable
X	suitable qualified personnel should be set under the	personnel under the control of a senior executive has
	control of a senior executive who will report directly	already been established.
	to the head of the Organization.  The funds earmarked for environmental protection	The expenditure incurred for environmental protection
	measures should be kept in separate account & not	measures from October'2020 – March' 2021 is Rs 4.15
XI	diverted for any other purpose. Year-wise	Lacs.
	expenditure should be reported to Ministry of	
	Environment & Forest.	
	The project authorities should inform to the Regional	Complied.
VII	Office located at Bhopal regarding date of financial	
XII	closures & final approval of the project by the concerned authorities & the date of start of land	
	development work.	
	The Regional Office of this Ministry located at	Noted and Agreed
	Bhopal shall monitor compliance of the stipulated	
XIII	environmental conditions. The project authorities	
	should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite	
	data/information/monitoring reports.	
	A copy of the clearance, letter should be marked to	Environment Clearance letter sent to respective Panchayat
XIV	the concerned Panchayat/local NGO, if any, from	and receipt taken.
7 X 1 V	whom any suggestion/representation has been	
	received while processing the proposal.  The State Pollution Control Board should display a	Environment Clearance letter copy sent to respective deptt.
	copy of the clearance letter at the Regional Office,	and receipts are taken.
XV	District Industry Center & the	- The state of the
	Collector's/Tehsildar's Office for 30 days.	
	The project authorities should advertise at least in	Complied.
	two newspapers widely circulated around the project, one of which shall be in the vernacular language of	
	the locality concerned within 7 days of issuance of	
37377	the clearance letter informing that the project has	
XVI	been accorded environmental clearance & a copy of	
	the clearance letter is available with the State	
	Pollution Control Board & may also be seen at	
	website of the Ministry of Environment & Forest at http://envfor.nic.in.	
	The Ministry or any other component authority may	Noted and Agreed
3.	stipulate any further additional condition for	
	environmental protection.	
4.	Failure to comply with any of the conditions	Noted and Agreed
	mentioned above may result in withdrawal of this clearance.	
5.	The above conditions will be enforced, inter-alia,	Noted and Agreed
	under the provision of the Water (Prevention &	
	Control of Pollution) Act, 1974, the Air (Prevention	
	& Control of Pollution) Act, 1981, the Environment	
	(Protection) Act. 1986 & the Public Liability	
	Insurance Act 1991 alongwith their amendments & rules.	
	191901	