JRP/Env./2023-24

The Director. **Ministry of Environment, Forest & Climate Change** Govt. of India, Kendriva 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 April'2023 - September'2023 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 Madhya Pradesh Pollution Control Board Paryavaran Parisar, E - 5, Arera Colony, Bhopal (M.P.) 462016
- 3) Regional Officer For information please. Madhya Pradesh Pollution Control Board, Rewa HIG - 190 - 191 Nehru Nagar Rewa (M.P.) 486001

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For information please.



<u>Name of the Project</u>: North – North Naubasta Limestone Mine (ML – 2) (A unit of M/s Jaiprakash Associates Limited) of Mining Capacity 1.85 MTPA at villages Naubasta, Sumeda, Atrauli and Garhwa Tehsil Huzur District Rewa (M.P.)

### **Project Code:**

Clearance Letter No. : MoEF vide letter No: - J-11015/423/2005-IA-II (M) Dated 18th May 2006

#### Period of Compliance Report: April'2023 – September'2023

### A. SPECIFIC CONDITIONS

No.	Conditions	Status of Compliance
I.	The maximum combined production from both the mining lease (ML $- 1$ 470.941 ha. and ML $- 2$ : 183.937 ha.) shall not exceed 4.0 million tones per annum.	Maximum combined production from the both mine shall be under 4.0 MTPA.
II.	The project proponent shall ensure that maximum production of limestone from all the six mining lease should not exceed 9.6 million tones per annum.	Noted and Agreed.
III.	Top soil should be stacked properly with adequate measures at earmarked site. It should be used for reclamation and rehabilitation of mined out area.	Top soil is being temporarily stored at earmarked site & used for land reclamation and plantation.
IV.	The over burden generated shall be concurrently backfilled and there shall not be any external over burden dump in the mine lease area.	OB is stacked at earmarked dump site. OB generated is accommodated in temporary dump site. Backfilling of mined out area has commenced. Garland drains along with the sedimentation pit at the corner have been provided around the excavation to prevent storm water from catchment area to come in contact with freshly excavated area. Drains are provided at the toe of the dump.
V.	Plantation shall be raised in an area of 177.687 ha by planting the native species around the ML area, roads etc. in consultation with the local DFO / Agriculture Department. The density of the trees should be around 2500 plants per ha.	<ul> <li>Plantation is carried out along the roads, dumpsites and on reclaimed areas.</li> <li>Plantation details with survival percentage and area covered as under;</li> <li>Total Area (Ha.): 171.362 Ha.</li> <li>Total Plantation : 118675</li> <li>Survival Rate : 80%</li> <li>% of Area Covered : 34.63</li> </ul>
VI.	The mining operation shall not intersect groundwater table. Prior approval of the Ministry of Environment & Forest and Central Ground Water Authority shall be obtained for mining below water table.	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. NOC for drawl of ground water received from Central Ground Water Authority (CGWA) vide ref. no. CGWA/NOC/MIN/ORIG/2021/14037 dated 14.12.2021. This is valid up to 13.12.2023.
VII.	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt	In order to arrest silt and sedimentation flow from the mining operation, check dams/siltation ponds have been constructed. The collected water has been used for sprinkling on the mine haul roads and green belt development. Sump & garland drain has been suitably

	development etc. The drains should be regularly desilted particularly after monsoon and maintained properly. Garland drain (size, gradient & length) shall be constructed for both mine pit and for waste dump and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt materials. Sedimentation pit should be constructed at the corners of the garland drains and desilted at regular intervals.	designed and provided with 50% safety margin over the peak sudden rainfall. Sump capacity with adequate retention period has been provided to allow proper settling of silt material. De-silting of garland drains and sump is being done before rainy season.
VIII.	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run – off and siltation should be based on the rain fall data.	As such no OB dump exists in mine area .Concurrently back filling is done in mine out area. No retaining wall is required.
IX.	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.
X.	The project authority should implement suitable water conservations measures to augment ground water resources in the area in consultation with Regional Director, Central Ground Water Board.	Conservation measures are taken for augmentation of ground water by constructing the water harvesting structures (Anicuts) in nearby nalals.
XI.	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, CGWB.	Noted and planned long terms rain water harvesting by converting the old mine pits into water reservoirs.
XII.	Drills should be operated with dust extractors or should be equipped with water injecting system.	All drilling operation is being carried out with wet drilling system.
XIII.	Permission from the component authority for drawal of ground water, if any required for the project may be obtained.	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. NOC for drawl of ground water received from Central Ground Water Authority (CGWA) vide ref. no. CGWA/NOC/MIN/ORIG/2021/14037 dated 14.12.2021. This is valid up to 13.12.2023.
XIV.	Vehicular emission should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.	All measures as stipulated are being adopted to control the vehicular emission during transportation.
XV.	Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly	Controlled blasting is being carried out to minimize the ground vibration and to arrest fly rock. Blasting is carried out only during day time with fixed timing.

	rocks and boulders should be implemented.	
XVI.	Crusher should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, loading, unloading areas including all the transfer points should be also have efficient dust control arrangements. These should be properly maintained and operated.	Crusher is provided with adequate capacity bag filters. Water sprinkling system, has also been provided at crusher, screens & transfer points. Haul roads are kept in wet conditions round the clock by water sprinklers.
XVII.	Consent to operate should be obtained from SPCB before starting production from this mine.	Consent to operate has been granted by MPPCB vide letter No. 9517 & 9515 /TS/Mine/MPPCB/2006 Dtd. 07.12.2006 and subsequently renewed regularly.
XVIII.	Sewage treatment plant should be installed for the colony. ETP should also provide for workshop and mineral separation plant wastewater.	Sewage treatment plant already exists in township of
XIX.	A Final mine closure plan along with details of Corpus found should be submitted to the Ministry of Environment & Forest 5 years in advance of final mine closure for approval.	Final mine closure plan shall be submitted 05 years in advance.

## **B.** General Conditions

No.	Conditions	Status of compliance
I.	No change in mining technology & scope of working should be made without prior approval of the Ministry of Environment & Forest.	Noted and Agreed.
II.	No change in the calendar plan including excavation, quantum of limestone, waste / OB dumps should be made.	Noted and Agreed.
III.	Conservation measures for protection of flora & fauna in the core & buffer zone should be drawn up in consultation with the local forest department and experts.	Noted and Agreed.
	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 meteorological data, topographical	Regular monitoring carried out of Ambient Air quality of Core zone as well as buffer zone six monthly average monitoring report for the period April'2023 – September'2023 given below; Core Zone:
	features & environmentally & ecologically	Location Parameters (µg/m <sup>3</sup> )
	sensitive targets & the frequency of monitoring	$\mathbf{PM}_{10}  \mathbf{PM}_{2.5}  \mathbf{SO}_2  \mathbf{NO}_X  \mathbf{CO}$
	should be undertaken in consultation with State	Drilling Site 44.0-46.7 28.6-30.9 7.2-8.5 8.3-14.4 125-158
IV.	Pollution Control Board.	L / S Loading Site 45.2-47.3 27.8-31.4 7.5-9.4 8.5-14.6 118-153
		Haulage Road         44.1-47.1         27.7-30.9         7.9-8.7         9.3-14.5         126-142           Water Pump         44.5         47.4         97.5         24.4         7.4         100         7.0         14.1         105         126
		Water Fullip         44.5-47.4         27.5-31.4         7.4-10.0         7.9-14.1         125-133           Station
		Buffer Zone:
		Location Parameters (µg/m <sup>3</sup> )
		PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>X</sub> CO
		Sakarwat         33.5-35.5         23.2-25.8         5.2-8.1         7.2-13.3         84-111           Kachur         33.9-36.6         21.4-24.5         6.1-7.5         5.4-12.3         95-121
		Nachul         35.7-50.0         21.4-24.5         0.1-7.5         5.4-12.5         95-121           Madheyapur         34.2-36.9         22.2-25.4         5.2-8.1         7.8-11.9         98-133
		Garhwa 32.6-37.0 23.2-26.6 5.5-7.7 7.1-12.5 94-121
	Data on ambient air quality (RPM, SPM, SO2,	Data on environmental quality has been regularly
	NOx and CO) should be regularly submitted to the	submitted to the MoEF including its Regional Office at
X7	Ministry including its Regional Office at Bhopal	
V.	& the State Pollution Control Board / Central Pollution Control Board once in six months.	Pollution Control Board, once in six months. Monitored environmental data of last six month have
	Tonuton Control Doard once in six months.	already been submitted vide our letter no. JRP/Env./2023-
		24 Date: 15 <sup>th</sup> May 2023
	Fugitive dust emission from all the source should	Adequate measures are taken for control of Fugitive dust
	be controlled regularly monitored and data	emission by sprinkling of water on haul roads, discharge points and covers on conveyor belts.
VI.	recorded properly. Water spraying arrangements on haul roads, wagon loading, dumps; loading &	points and covers on conveyor bens.
	unloading points should be provided and properly	
	maintained.	
	Adequate measures should be taken for control of	Adequate measures have been adopted for control of
17TT	noise levels below within prescribed standards.	noise levels below 85 dB (A) in the work environment.
VII.	Workers engaged in blasting & drilling operations, operations of HEMM etc., should be	Workman engaged in blasting and drilling operations, operations of HEMM etc., have been provided with ear
	provided with ear plugs / muffs.	plugs/muffs.
VIII.	Industrial wastewater (workshop & wastewater	No wastewater is generated from the mining operation.
	from the mine) should be properly collected,	The waste water generated from Mine workshop is passed
	treated so as to conform to the standards	through oil and grease separator and settling tank and
	prescribed under GSR 422 (E) dated 19 <sup>th</sup> May	clean water conform to the standards. The collected water
	1993 & 31 <sup>st</sup> December 1993 or as amended from	is being used for dust suppression on haul roads. Analysis

	time to time. Oil & grease trap should be installed	data are well within the Prescribed limit.
	before discharge of effluents from the workshop.	and are went whilm the reserved milit.
	Acid mine water, if any has to be treated and	There is no generation of acid mine water in limestone
IX.	disposed of after conforming to the standards	mines.
	prescribed the competent authorized.	
	Personnel working in dusty areas should wear	Personnel working in dusty areas have been provided
X.	protective respirator devices & they should also	protective respiratory devices and also they have been
Λ.	be provided with adequate trainings &	provided with adequate training and awareness on safety
	information on safety & health aspects.	and health aspects.
XI.	Occupational health surveillance programme of	Personnel working in dusty areas have been provided
	the workers should be undertaken periodically to	protective respiratory devices and also they have been
	observe any contractions due to exposure to	provided with adequate training and awareness on safety
	radioactive mineral dust and take corrective	and health aspects. Occupational health surveillance
	measures, if needed. The same programme may	programme of the workers have been undertaken
	be extended to adjoining villages also.	periodically and corrective measures are taken, if required.
	A separate environmental management cell with	A separate environmental management cell with suitable
	suitable qualified personnel should be set under	personnel under the control of a senior executive has
XII.	the control of a senior executive who will report	already been established.
	directly to the head of the Organization.	
	The funds earmarked for environmental protection	The expenditure incurred for Environment protection
	measures should be kept in separate account &	measures for the period April'2023 - September'2023 is
XIII.	should not be diverted for other purpose. Year-	Rs 5.62 Lac.
	wise expenditure should be reported to Regional	
	Office, Bhopal of the MoEF and to the Ministry.	
	The Regional Office of this Ministry located at	Noted and Agreed.
	Bhopal shall monitor compliance of the stipulated	
XIV	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	Environment Clearance letter sent to respective Panchayat
	to the concerned Panchayat/local NGO, if any,	and receipt taken.
XV.	from whom any suggestion/representation has	1
	been received while processing the proposal.	
	The project authorities should inform to the	Noted. The mine is in operation - since 19.12.2006.
	Regional Office located at Bhopal regarding date	
XVI.	of financial closures & final approval of the	
	project by the concerned authorities & the date of	
	start of land development work.	Environment Cleanares letter course south to many the
XVII	The State Pollution Control Board should display a copy of the clearance latter at the Pagional	Environment Clearance letter copy sent to respective deptt. & receipts are taken.
ΛΫΠ	a copy of the clearance letter at the Regional Office, District Industry Center & the	עכףת. מ וכנכוףוג מוכ ומגכוו.
	Collector's/Tehsildar's Office for 30 days.	
	The project authorities should advertise at least in	Complied. The mine is already in operation since
	two newspapers widely circulated around the	19.12.2006.
	project, one of which shall be in the vernacular	
	language of the locality concerned within 7 days	
VUII	of issuance of the clearance letter informing that	
XVIII.	the project has 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.	