

AMELIA NORTH COAL MINE

A UNIT OF JAIPRAKASH POWER VENTURES LIMITED

ISO CERTIFIED : 9001: 2015, 14001: 2015 & 45001: 2018



JAIPRAKASH
POWER VENTURES LIMITED

Ref.: JPVL/Amelia/ Mine/2023-24/26

Date: 13.05.2023

To,
The Director,
Regional Office,
Ministry of Environment, Forests & Climate Change,
Kendriya Paryavaran Bhawan, GOI
E-5 Ravi Shankar Nagar, Link Road No.3,
Bhopal -463016 (M.P.)

Sub: Six Monthly Environmental Clearance Compliance Status Report for the Period **October - 2022 to March- 2023** of M/s Jaiprakash Power Ventures Limited, **Amelia (North) Coal Mine.**

Reference: (i) Letter No. J11015/355/2006-IA. II (M) dated 20 July 2007
(ii) Letter No. J11015/355/2006-IA. II (M) dated on 13th May 2015

Sir,

We are submitting herewith point wise Compliance Report for the period **October - 2022 to March- 2023** to the conditions specified in the Environmental Clearance granted by MoEF Letter No. J11015/355/2006-IA. II (M) dated 20 July 2007 & 13th May 2015 for 2.8 MTPA Amelia (North) Coal Mine of M/s Jaiprakash Power Ventures Limited, located in Village Majhauri, Tehsil – Deosar, District – Singrauli, (Madhya Pradesh).

This is for your kind information and acceptance please.

Thanking you
Yours faithfully
For Jaiprakash Power Ventures Ltd.

13/05/23
Shri Rajneesh Gaur
Authorized Signatory

13.05.2023
Encl: as above

CC. to:

1. The Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.).
2. Zonal Office, Central Pollution Control Board, Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.).
3. Regional Officer, Madhya Pradesh Pollution Control Board, Waidhan, Distt. – Singrauli, (M.P.).

Site : Amelia(North)CoalMine,Vill.Majhauri,P.O.-Bandha,Tehsil-Deosar, Distt. - Singrauli, Madhya Pradesh, India - 486886
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Regd.Office : Complex of Jaypee Nigrie Super Thermal Power Plant, Nigrie, Tehsil Sarai, District Singrauli-486669 (Madhya Pradesh)
Ph.: +91 (7801) 286021-39 Fax: +91 (7801) 286020
Website:www.jpvpowerventures.com**E-mail:**jpvl.investor@jalindia.co.in
CIN:L40101MP1994PLC042920

Half – Yearly Compliance Report

Of

Environmental Clearance

Period: October, 2022–March, 2023

Of

Amelia (North) Coal Mine

M/s Jaiprakash Power Ventures Ltd.

Capacity-2.8 Million Tonnes Per Annum

Village – Majhauri, Tehsil – Deosar, District – Singrauli, (Madhya Pradesh)

Submitted To:

Regional Office, Western Zone

Ministry of Environment, Forest & Climate Change

&

Zonal Office, Central Pollution Control Board, Bhopal &

Madhya Pradesh Pollution Control Board, Bhopal

<u>Name of the Project:</u>	Amelia (North) Coal Mine, Unit of M/s Jaiprakash Power Ventures Limited, Expansion of Amelia (North) Coal Mine with increase of production capacity- 2.8 to 3.36 MTPA (Stage-I expansion) Located at Village – Majhauri, Tehsil – Deosar, District – Singrauli (Madhya Pradesh)
<u>Clearance Letter no.:</u>	1) Letter No. J-11015/355/2006-IA. II (M) dated 20 th July, 2007 2) Letter No.: J-11015/355/2006-IA. II (M) dated 13 th May, 2015 3) Letter No: J-11015/355/2006-IA. II (M) dated 16 th January 2023 by MoEF&CC (GOI), New Delhi-110003 (EC Identification No. EC 23A006MP158876)
<u>Period of Compliance Report:</u>	October, 2022-- March, 2023

A. Specific Conditions

S. No.	Conditions	Compliance Status
(i)	Maximum production by opencast mining shall not exceed 2.8 MTPA and that by underground mining shall not exceed 0.6 MTPA. The maximum combined production at any given time shall not exceed 2.8 MTPA from both opencast and underground mining.	Being Complied The coal production was 3.36 Million Tonnes in the FY 2022-23 as per approved mining plan and as per granted Environmental Clearance vide letter no. J-11015/355/2006-IA. II (M) dated 16 th January 2023 by MoEF&CC (GOI), for enhanced coal production form 2.8 MTPA to 3.36 MTPA. There is no underground mining operation at present.
(ii)	No mining operations shall be undertaken in the lease area which consists of forest land until forestry clearance has been obtained under the provisions of FC Act, 1980. No mining operation shall begin until forestry clearance is obtained for the specific purpose of diversion of forestland for OB dumping, construction of roads, topsoil dumps, settling ponds, infrastructure and facility area including CHP and for construction	Complied All necessary approvals and clearances have been obtained. The details are as follows: (i) Forest Clearance was received for 728.75 ha. Forest land vide MoEF, letter no. 8- 08/2007/FC, dated 30.11.2012. (ii) Forest Department, Govt. of Madhya Pradesh, Bhopal letter no. D-2270/3521/2012/10-3 dated 24.12.2012. (iii) Principal Chief Conservator of Forest (Land Management) – Office Madhya Pradesh - Bhopal letter no. F-1/442/07/10-11/260 dated: 16.01.2013 (iv) Divisional Forest Officer – Singrauli (Madhya Pradesh) letter no. M.chi./212 dated: 21.01.2013. (v) Forest Clearance has been received for 728.75 ha. Forest land vide MoEF&CC, letter no. 8- 08/2007/FC. Dated: 11.05.2015. (vi) Forest Department, Govt. of Madhya Pradesh, Bhopal letter no. 919/1390/2015/10-3, Bhopal, Dated: 20.05.2015



S. No.	Conditions	Compliance Status
	of the proposed railway siding for transport of mineral coal from the lease. Metal topping of kutchha road and creation of the Railway Siding Corridor covering an area of 6.75 ha shall be done with approval of the forest Department / competent authority.	
(iii)	Mining shall be carried out as per statute at a safe distance from Kanchan nala and the rivulets and streams flowing within the lease boundary. At the time of depillaring protective bunds and garland drains shall be provided so that no water from the surface enters the subsidence area and the shaft.	Being Complied Mining is being carried out by opencast method at a safe distance of more than 100 meters from Kanchan nala. No underground mining is going on at present.
(iv)	While extracting panels in the lower seam, all water bodies in the subsidence area shall be drained. Dewatering of the old goaves of the upper seam shall be continued as long as the lower seam is worked to prevent accumulation of large water bodies over working area.	Agreed to Comply We once again ratify & agree to comply with the said stipulation in future when underground mining starts.
(v)	Sufficient coal pillars shall be left unextracted around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any.	Agreed to Comply We once again ratify & agree to comply with the said stipulation in future when underground mining starts.
(vi)	Solid barriers shall be left below the roads falling within the block to	Agreed to Comply We once again ratify & agree to comply with the said stipulation in future when underground mining



S. No.	Conditions	Compliance Status
	avoid any damage to the roads.	starts.
(vii)	No depillaring operation shall be carried out below the road and habitation area found within the lease.	<p>Agreed to Comply</p> <p>We once again ratify & agree to comply with the said stipulation in future when underground mining starts.</p>
(viii)	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, road and surroundings should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material.	<p>Agreed to Comply</p> <p>We once again ratify & agree to comply with the said stipulation in future when underground mining starts.</p>
(ix)	Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity should also be provided adequate retention period to allow proper settling of silt material.	<p>Being Complied</p> <p>Garland drains of length 40.20 Km have been constructed with proper gradient and size along the road side and around the dump area.</p> <p>05 No. sumps have been constructed for mine water seepage presently 02 Nos groundwater dewatering structure are in working conditions in the mine keeping in view of 50% safety margin over and above the peak sudden rainfall and maximum discharge. Sumps have adequate capacity to give the retention time for proper settling of suspended solid materials.</p>

S. No.	Conditions	Compliance Status
(x)	<p>OB should be stacked at the two earmarked external OB dumpsite (s) within ML area. The maximum height of the two dumps is 100m with five benches of 20m each. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dump sites should continue until the vegetation become self-sustaining. Compliance Status should be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on a yearly basis.</p>	<p>Being Complied The ultimate slope of dump has been maintained below 28° Biological reclamation of dumps is continuous process till the life of the mine. We are carrying out the biological reclamation as per our afforestation plan.</p>
(xi)	<p>Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering in the mine area, roads, greenbelt development, etc. The drains should regularly be desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention</p>	<p>Being Complied Catch drains have been constructed for proper collection of water flow from soil, OB, and mineral dumps and its maintenance is being done along with other mine development work. Garland drains of length 40.20 Km have been constructed with proper gradient and size along the road side and around the dump area. 05 Nos. sumps have been constructed for mine water in the mine seepage presently 02 Nos groundwater dewatering structure are in working conditions in the mine keeping in view of 50% safety margin over and above the peak sudden rainfall and maximum discharge. Sumps have adequate capacity to give the retention time for proper settling of solid suspended materials. 17 Nos. of siltation ponds have been constructed to arrest silt and sediments flown from dumps. The collected mine seepage water in sumps is being utilized for mining activities i.e. dust suppression and plantation.</p>

S. No.	Conditions	Compliance Status
	period to allow proper settling of silt material.	
(xii)	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.	<p>Being Complied Retaining walls of 3209 meter long (2 meter height, 2.45 meter width at base and 0.45 meter at the top) at the toe of external overburden Dump 'A' & 'B' have been constructed to check run-off and siltation. Besides the retaining wall 3730 meter length of Gabion walls have been constructed at the toe of Dump A & B with adequate height (3-4 meter) and width (1-3 meter).</p>
(xiii)	Crushers at the CHP should be operated with high efficiency bag filters/water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor/system which shall be closed, haulage roads, transfer points, etc.	<p>Being Complied 02 Nos. high pressure water spraying systems have been installed at feeder breaker and apron feeder (unloading points). 03 Nos. high pressure water spraying systems have been installed at transfer towers, stacker-reclaimer and rapid loading system (Coal Silo). A network of static sprinklers has been installed at Coal Stock Yard in CHP Area for controlling fugitive emissions. All Conveyor belts have been covered with corrugated steel sheet on sides & top. This will prevent exposure of coal moving on belt from blowing wind. Wind Breaking Screen 54m long 3 to 6m height at Coal Unloading Point (Apron Feeder) and Wind Breaking Wall 200 m long at Wharf Wall have been constructed to control the fugitive emission. Regular water spraying is being done by 02 mobile water sprinklers.</p>
(xiv)	Railway siding proposed to be constructed shall be provided with sheds for ground bunkers which shall be fitted with bag filters/water sprinkling arrangements to ensure that no fugitive dust emissions are generated. Mineral transportation by road shall be discontinued immediately thereafter.	<p>Complied Railway siding has been constructed and coal stock yard with stacker/reclaimer has been provided with high pressure water spraying system.</p>
(xv)	Drills should be wet operated only.	<p>Being Complied Water injector systems have been provided in drills for wet drilling.</p>
(xvi)	Controlled blasting should be practiced with use of delay	<p>Controlled blasting with delay detonators is being practiced and only during day time. The following mitigative measures for control of ground vibration and to arrest the fly rocks and</p>

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	detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	boulders are being taken: <ul style="list-style-type: none"> • Proper blast design, • Use of cord relay for delay timing, • Optimum charge per delay, and proper spacing and burden along with use of Nonel • Regular monitoring of ground vibrations by seismograph. 																																																																				
(xvii)	No mineral processing unit such as a coal washery shall be installed in the Mining Lease without prior approval of this Ministry.	Agreed and noted.																																																																				
(xviii)	A progressive afforestation plan covering an area not less than 566.03 ha shall be implemented, which includes reclaimed external OB dump (150.18 ha.), topsoil dump (12.25 ha.), backfilled area (380.80 ha.), along ML boundary, barrier zone (11 ha.), along roads and infrastructure, undisturbed/vacant, land (12.25 ha.), by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	<p>Being Complied The target for plantation in the year 2022-23 was 75,000 and has been achieved. A total of 3,74,759 saplings of native species have been planted at dumps and other areas till Sep 2022.</p> <table border="1" data-bbox="817 702 2072 1380"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="5">Plantation Programme</th> <th rowspan="2">Total no. of trees</th> </tr> <tr> <th>External Dump (ha)</th> <th>Back filled Area (ha)</th> <th>Un disturbed Area (ha)</th> <th>Barrier zone</th> <th>Total (ha)</th> </tr> </thead> <tbody> <tr> <td>2022-23</td> <td>10.00</td> <td>20.00</td> <td>-</td> <td>-</td> <td>30.00</td> <td>75000</td> </tr> <tr> <td>2023-24</td> <td>10.00</td> <td>26.50</td> <td>-</td> <td></td> <td>36.50</td> <td>91250</td> </tr> <tr> <td>2024-25</td> <td>10.00</td> <td>26.50</td> <td></td> <td></td> <td>36.50</td> <td>91250</td> </tr> <tr> <td>2025-26</td> <td>10.00</td> <td>26.50</td> <td></td> <td></td> <td>36.50</td> <td>91250</td> </tr> <tr> <td>2026-27</td> <td>10.00</td> <td>26.50</td> <td>-</td> <td></td> <td>36.50</td> <td>91250</td> </tr> <tr> <td>2027-28</td> <td>8.29</td> <td>26.50</td> <td>-</td> <td></td> <td>34.80</td> <td>87000</td> </tr> <tr> <td>2028-29</td> <td></td> <td>26.50</td> <td>-</td> <td></td> <td>26.50</td> <td>66250</td> </tr> <tr> <td>2029-30</td> <td></td> <td>26.50</td> <td>-</td> <td></td> <td>26.50</td> <td>66250</td> </tr> </tbody> </table>	Year	Plantation Programme					Total no. of trees	External Dump (ha)	Back filled Area (ha)	Un disturbed Area (ha)	Barrier zone	Total (ha)	2022-23	10.00	20.00	-	-	30.00	75000	2023-24	10.00	26.50	-		36.50	91250	2024-25	10.00	26.50			36.50	91250	2025-26	10.00	26.50			36.50	91250	2026-27	10.00	26.50	-		36.50	91250	2027-28	8.29	26.50	-		34.80	87000	2028-29		26.50	-		26.50	66250	2029-30		26.50	-		26.50	66250
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6/19

S. No.	Conditions	Compliance Status						
		2030-31	-	27.50	-		27.50	68750
		2031-32	-	27.50	-	2	29.50	73750
		2032-33	-	27.50	-	2	29.50	73750
		2033-34	-	27.50	-	2	29.50	73750
		2034-35	-	32.50	-	2	34.50	86250
		2035-36	-	32.50	-	1	33.50	86250
		Total	58.29	380.5	0	9.00	447.80	1122000
(xviii)	Backfilling shall start by the 4th year of the operations and concurrent backfilling from the 8th year. Of the total excavated area of 475 ha, an area of 461.74 ha, shall be backfilled. Of this, an area of 380.88 ha, which is completely backfilled shall be reclaimed with plantation/afforestation by planting native plant species in consultations with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. The balance area of the 94.12 ha of the decoaled area partially backfilled/left as void and being converted into a water reservoir, shall be gently sloped and the upper benches of the reservoir shall be stabilized with plantation and the periphery of the reservoir	<p>Being Complied.</p> <p>Biological reclamation of dumps is a continuous process till the life of the mine.</p> <p>We are carrying out the biological reclamation as per our afforestation plan.</p>						



S. No.	Conditions	Compliance Status
	fenced.	
(xix)	A programme for the conservation of the wildlife particularly the rare and endangered species/schedule-I fauna and flora shall be formulated and implemented in consultation with the concerned Forest and Wildlife Departments, in the State Government. Separate funds shall be earmarked for implementation of the various activities there under and the status thereof shall be regularly reported to this Ministry and the MOEF Regional Office, Bhopal.	<p>Complied</p> <p>The Wildlife Conservation Plan of Impact Area of Amelia (North) Coal Block had been prepared by Dr. R. C. Sharma, IFS (Retd.), Founder PCCF, Chhattisgarh and Ex Wild Life Chief & C.W.L.W (Undivided M.P.) in September 2012. The same was approved vide letter no. F-5-2/2010/10-3/2591 dated 01.11.2012. Accordingly an amount of Rs 14 crores had been deposited by the prior allottee ie. MPSMCL in CAMPA A/c No. 391702010098522 on 24.11.2012 towards pro-rata share of Amelia (North) Coal Block.</p> <p>The wildlife plan since then is being implemented by the Office of the Principal Chief Conservator Forest (Wild Life), Bhopal. The Company requested them vide letters dated 26.05.2016, 01.09.2022 & 12.10.2022 to intimate us the present position of the implementation of Wildlife Conservation Plan.</p> <p>In response to above, the Upper Principal Chief Conservator of Forests has sent a letter dated 12.10.2022 to the Regional Director, Sanjay Tiger Reserve, Sidhi mentioning that in the year 2014-15 an amount of Rs. 13680 lakhs was allotted to Amelia (North) Coal Block, out of which Rs. 1270 lakhs has been spent.</p>
(xix)	The company shall obtain prior approval of CGWA/CGWB Regional Office for use of groundwater, if any, for mining operations. Further requirement of water, if any, will be from rainwater harvesting measures.	<p>Complied</p> <p>No Objection Certificate (NOC) was granted for groundwater withdrawal to M/s Jaiprakash Power Ventures Limited in respect of Amelia (North) Coal Mine by Central Ground Water Authority, Ministry of Water Resources, River Development and Ganga Rejuvenation vide NOC no. CGWA/NOC/MIN/ REN/2/2021/6323, received dated: 08/10/2021. CGWA NOC for 2022-24 application in under observation of HQ CGWA New Delhi.</p>
(xx)	Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity should be done four times a year in per-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected be	<p>Being Complied</p> <p>05 nos. of piezometers holes have been constructed in mining lease area. Where 01 No. of Digital Water Level Recorder with telemetry system and 01 No. of Digital Water Level Recorder have been installed for the monitoring of ground water level and 10 nos. of dug wells have been selected for monitoring of groundwater level in buffer zone area.</p> <p>Monitoring of groundwater from existing dug wells and piezometers is being done and the results are being submitted to MoEF&CC, Regional Office, Bhopal and CPCB, Zonal Office, Bhopal etc.</p> <p>Regular monitoring of ground water quality is being done and being submitted to MoEF&CC, Regional Office, Bhopal and CPCB, Zonal Office, Bhopal etc.</p>



S. No.	Conditions	Compliance Status
	May. Data thus collected be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.	
(xxi)	The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. Any additional water requirement for mining operation shall be met from rainwater use only. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine. It shall be ensured that if the river/nala discharge of mine water takes place, it shall be away from the recharging area of the mine.	<p>Being Complied</p> <p>A rain water harvesting plan for core as well as buffer zone has been prepared by a reputed consultancy firm (Hydro-Geosurvey Consultants Private Limited, Jodhpur). Restoration and rejuvenation of 05 nos. existing ponds in 05 different locations like; Majhauri, Ujjaini, Pachour, Tenduha and Jignawah villages as suggested in rain water harvesting plan have been done. 02 nos. of rain water harvesting pits are constructed at core zone for recharging of ground water table.</p>
(xxii)	ETP should also be provided for treatment of effluents from workshop, CHP. There shall be zero discharge from the coal washery.	<p>Being Complied</p> <p>The ETP of 80 KLD capacity for treatment of workshop and CHP waste water has been constructed and is in operation. Oil and grease trap has also been constructed for workshop effluents.- There is no coal washery.</p>
(xxiii)	Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operation shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad	<p>Being Complied</p> <ol style="list-style-type: none"> 1. Total Medical Examinations for 3486 no. of employees have been carried out up to March 2023 as per Mines Rules, 1955. 2. Health checks up / Medical Examination of 422 employees has been carried out as per Mines Rules, 1955 from Oct 2022 to March 2023. <p>There is no such case of occupational disease or hearing impairment. There is no occupational disease or hearing impairment till now and if required health check up shall be done through the agency such as NIOH Ahmedabad who have already been contacted through</p>



S. No.	Conditions	Compliance Status
	within a period of one year and the results reported to this Ministry and to DGMS.	Email for this purpose.
(xxiv)	For monitoring land use pattern and for post mining land use a time series of land use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular seasons which is consistent in the time series), and the report submitted to MOEF&CC and its Regional Office at Bhopal.	Being Complied A land use pattern report for Year-2022 (Period – once in three years) has been submitted vide letter no. Ref.: JPVL/Amelia/Mine/2022-23/269, date: 08.04.2022 to MoEF&CC, Regional Office, Bhopal.
(xxv)	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests five year before mine closure for approval.	Being Complied Progressive Mine Closure Plan has been prepared and approved by Ministry of Coal, vide letter no. 34011-22-2010-CPAM New Delhi dated; 18.05.2011. Detail of Escrow A/c for Corpus Fund is given below: Account Title: “ESCROW ACCOUNT-MINE CLOSURE (AMELIA NORTH) ESCROW ACCOUNT –JAIPRAKASH POWER VENTURES LIMITED” Bank: ICICI BANK – ITO, EXPRESS BUILDING BAHADUR SHAH ZAFAR MARG DELHI, 110002 Account No.: 038605004463 A total amount of Rs 23.44 Crore has been deposited.
B. General Conditions		
S. No.	Conditions	Compliance Status
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	Noted and same shall be complied. Mining is being done by Opencast Method as per Mining Plan approved by Ministry of Coal, New Delhi and with the approval of the MOEF&CC.
(ii)	No change in the calendar plan	Excavation of Overburden and quantum of mineral coal is being done as per provision of approved

S. No.	Conditions	Compliance Status																																																																														
	including excavation, quantum of mineral coal and waste should be made.	Calendar plan in mining plan.																																																																														
(iii)	Four ambient air quality monitoring stations should be established in the core zone as well in the buffer zone for SPM, RPM, SO ₂ and NO _x , monitoring. Location of stations should be decided based the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.	Complied Four no. of ambient air quality monitoring stations have been established in core zone (Mine Site & Site Office) and buffer zone (Village Kunda & Village Manihari) in consultation with the M.P. Pollution Control Board, Singrauli (M.P.).																																																																														
(iv)	Data on ambient air quality (SPM, RSPM, SO ₂ and NO _x) should be regularly submitted to the Ministry including its Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months.	Ambient air quality monitoring is being done and data is being submitted to concern departments regularly. <table border="1" data-bbox="817 798 2072 1404"> <thead> <tr> <th></th> <th>Sampling Location</th> <th>Parameters</th> <th>Max.</th> <th>Min.</th> <th>Avg.</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1.</td> <td rowspan="4">Mine Site (Core Zone)</td> <td>*SPM (ug/m3)</td> <td>143.22</td> <td>118.56</td> <td>130.89</td> </tr> <tr> <td>*RSPM (ug/m3)</td> <td>72.78</td> <td>57.31</td> <td>65.04</td> </tr> <tr> <td>*SO2 (ug/m3)</td> <td>24.7</td> <td>21.88</td> <td>23.29</td> </tr> <tr> <td>*NOx (ug/m3)</td> <td>9.81</td> <td>8.6</td> <td>9.20</td> </tr> <tr> <td rowspan="4">2.</td> <td rowspan="4">WTP Township (Village: Majhauri)</td> <td>PM10 (ug/m3)</td> <td>57.66</td> <td>46.61</td> <td>52.13</td> </tr> <tr> <td>PM2.5 (ug/m3)</td> <td>36.86</td> <td>29.28</td> <td>33.07</td> </tr> <tr> <td>SO2 (ug/m3)</td> <td>8.82</td> <td>7.82</td> <td>8.32</td> </tr> <tr> <td>NOx (ug/m3)</td> <td>21.05</td> <td>18.96</td> <td>20.05</td> </tr> <tr> <td rowspan="4">3.</td> <td rowspan="4">Village: Kunda</td> <td>PM10 (ug/m3)</td> <td>52.16</td> <td>48.15</td> <td>50.15</td> </tr> <tr> <td>PM2.5 (ug/m3)</td> <td>33.78</td> <td>28.4</td> <td>31.09</td> </tr> <tr> <td>SO2 (ug/m3)</td> <td>8.5</td> <td>6.71</td> <td>7.60</td> </tr> <tr> <td>NOx (ug/m3)</td> <td>17.52</td> <td>14.93</td> <td>16.22</td> </tr> <tr> <td rowspan="4">4.</td> <td rowspan="4">Village: Manihari</td> <td>PM10 (ug/m3)</td> <td>53.5</td> <td>48.33</td> <td>50.91</td> </tr> <tr> <td>PM2.5 (ug/m3)</td> <td>33.82</td> <td>30.02</td> <td>31.92</td> </tr> <tr> <td>SO2 (ug/m3)</td> <td>8.46</td> <td>6.98</td> <td>7.72</td> </tr> <tr> <td>NOx (ug/m3)</td> <td>18.06</td> <td>15.87</td> <td>16.96</td> </tr> </tbody> </table>		Sampling Location	Parameters	Max.	Min.	Avg.	1.	Mine Site (Core Zone)	*SPM (ug/m3)	143.22	118.56	130.89	*RSPM (ug/m3)	72.78	57.31	65.04	*SO2 (ug/m3)	24.7	21.88	23.29	*NOx (ug/m3)	9.81	8.6	9.20	2.	WTP Township (Village: Majhauri)	PM10 (ug/m3)	57.66	46.61	52.13	PM2.5 (ug/m3)	36.86	29.28	33.07	SO2 (ug/m3)	8.82	7.82	8.32	NOx (ug/m3)	21.05	18.96	20.05	3.	Village: Kunda	PM10 (ug/m3)	52.16	48.15	50.15	PM2.5 (ug/m3)	33.78	28.4	31.09	SO2 (ug/m3)	8.5	6.71	7.60	NOx (ug/m3)	17.52	14.93	16.22	4.	Village: Manihari	PM10 (ug/m3)	53.5	48.33	50.91	PM2.5 (ug/m3)	33.82	30.02	31.92	SO2 (ug/m3)	8.46	6.98	7.72	NOx (ug/m3)	18.06	15.87	16.96
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		Environment Protection Rules, 1986 03 Nos. CAAQMS (Continuous Ambient Air Quality Monitoring System) have also been installed at Mines area, CHP site & Base Camp area.																																																		
(v)	Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, and dump trucks (loading and unloading) points should be provided and properly maintained.	Being Complied Static Water Sprinklers system has been installed in length of 3000 meters along the coal transport road from mine to CHP and in operation. Regular water spraying is being done on haul roads, dumps and at loading/unloading points to control the fugitive dust emission by 09 nos. of mobile water sprinkler in mine and CHP area.																																																		
(vi)	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. should be provided with ear plugs / muffs.	<p>Being Complied. Regular monitoring of work zone noise level is being done for HEME operator cabin and Noise level is below 85 dB(A). Ear plugs/ muffs have been provided to workers as per requirement.</p> <p style="text-align: center;">NOISE MONITORING RESULT For the period of October 2022 to March-2023</p> <table border="1" data-bbox="853 863 2056 1437"> <thead> <tr> <th>Month</th> <th>Location</th> <th>Leq (Day Time) dB(A)</th> <th>Leq (Night Time) dB(A)</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Oct-2022</td> <td>Mine Office (Core Zone)</td> <td>59.76</td> <td>50.32</td> </tr> <tr> <td>Vill - Majhuli</td> <td>47.44</td> <td>37.99</td> </tr> <tr> <td>Vill - Kunda</td> <td>43.55</td> <td>39.14</td> </tr> <tr> <td>Vill -Manihari</td> <td>44.59</td> <td>37.28</td> </tr> <tr> <td rowspan="4">Nov-2022</td> <td>Mine Office (Core Zone)</td> <td>61.81</td> <td>51.08</td> </tr> <tr> <td>Vill - Majhuli</td> <td>47.67</td> <td>39.95</td> </tr> <tr> <td>Vill - Kunda</td> <td>43.05</td> <td>38.25</td> </tr> <tr> <td>Vill -Manihari</td> <td>45.4</td> <td>36.9</td> </tr> <tr> <td rowspan="4">Dec-2022</td> <td>Mine Office (Core Zone)</td> <td>61.94</td> <td>51.05</td> </tr> <tr> <td>Vill - Majhuli</td> <td>47.04</td> <td>41.22</td> </tr> <tr> <td>Vill - Kunda</td> <td>46.6</td> <td>39.84</td> </tr> <tr> <td>Vill -Manihari</td> <td>46.32</td> <td>39.2</td> </tr> <tr> <td rowspan="2">Jan-2023</td> <td>Mine Office (Core Zone)</td> <td>61.85</td> <td>52.91</td> </tr> <tr> <td>Vill - Majhuli</td> <td>49.28</td> <td>40.82</td> </tr> </tbody> </table>	Month	Location	Leq (Day Time) dB(A)	Leq (Night Time) dB(A)	Oct-2022	Mine Office (Core Zone)	59.76	50.32	Vill - Majhuli	47.44	37.99	Vill - Kunda	43.55	39.14	Vill -Manihari	44.59	37.28	Nov-2022	Mine Office (Core Zone)	61.81	51.08	Vill - Majhuli	47.67	39.95	Vill - Kunda	43.05	38.25	Vill -Manihari	45.4	36.9	Dec-2022	Mine Office (Core Zone)	61.94	51.05	Vill - Majhuli	47.04	41.22	Vill - Kunda	46.6	39.84	Vill -Manihari	46.32	39.2	Jan-2023	Mine Office (Core Zone)	61.85	52.91	Vill - Majhuli	49.28	40.82
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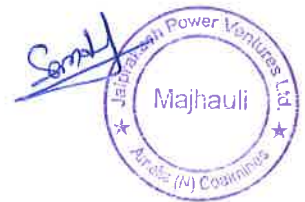
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(vii)	Industrial wastewater (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	<p>Being Complied</p> <p>Mine water seepage is being collected in sumps and is being treated in ETP (300 KLD) & used in dust suppression and plantation.</p> <p>Waste water from workshop is being treated properly in ETP (80 KLD) to keep the standards prescribed in gazette notification within the limit.</p> <p>Oil and grease trap has also been provided for workshop effluents.</p> <p style="text-align: center;">TREATED EFFLUENT WATER RESULTS:- (300 KLD ETP) For the period of October 2022 – March 2023</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Date of Sampling</th> <th>PH</th> <th>COD Mg/l</th> <th>BOD 3days at 27degreeC Mg/l</th> <th>TSS Mg/l</th> <th>Oil and Grease Mg/l</th> <th>Tem Degree C</th> <th>TDS Mg/l</th> <th>Chloride Mg/l</th> </tr> </thead> <tbody> <tr> <td rowspan="2">22-Oct</td> <td>05.10.2022</td> <td>7.47</td> <td>44.73</td> <td>12.46</td> <td>25.38</td> <td><0.4</td> <td>26</td> <td>104.78</td> <td>8.34</td> </tr> <tr> <td>19.10.2022</td> <td>7.46</td> <td>53.79</td> <td>16.58</td> <td>35.48</td> <td><0.4</td> <td>26.1</td> <td>102.23</td> <td>11.77</td> </tr> <tr> <td rowspan="2">22-Nov</td> <td>03.11.2022</td> <td>7.45</td> <td>42.86</td> <td>14.21</td> <td>27.66</td> <td><0.4</td> <td>25.2</td> <td>112.8</td> <td>9.12</td> </tr> <tr> <td>17.11.2022</td> <td>7.43</td> <td>50.46</td> <td>15.62</td> <td>33.68</td> <td><0.4</td> <td>24.6</td> <td>100.45</td> <td>13.57</td> </tr> <tr> <td rowspan="2">22-Dec</td> <td>07.12.2022</td> <td>7.42</td> <td>40.92</td> <td>11.87</td> <td>26.4</td> <td><0.4</td> <td>24.6</td> <td>104.91</td> <td>10.44</td> </tr> <tr> <td>21.12.2022</td> <td>7.46</td> <td>45.27</td> <td>17.04</td> <td>37</td> <td><0.4</td> <td>24.8</td> <td>109.87</td> <td>14.75</td> </tr> <tr> <td rowspan="2">23-Jan</td> <td>04.01.2023</td> <td>7.49</td> <td>43.65</td> <td>13.49</td> <td>28.33</td> <td><0.4</td> <td>24.8</td> <td>101.57</td> <td>12.66</td> </tr> <tr> <td>18.01.2023</td> <td>7.47</td> <td>43.37</td> <td>15.39</td> <td>32</td> <td><0.4</td> <td>24</td> <td>112.47</td> <td>16.08</td> </tr> <tr> <td>23-Feb</td> <td>03.02.2023</td> <td>7.42</td> <td>40.54</td> <td>12.33</td> <td>21.92</td> <td><0.4</td> <td>24.1</td> <td>106.74</td> <td>10.36</td> </tr> </tbody> </table>				Month	Date of Sampling	PH	COD Mg/l	BOD 3days at 27degreeC Mg/l	TSS Mg/l	Oil and Grease Mg/l	Tem Degree C	TDS Mg/l	Chloride Mg/l	22-Oct	05.10.2022	7.47	44.73	12.46	25.38	<0.4	26	104.78	8.34	19.10.2022	7.46	53.79	16.58	35.48	<0.4	26.1	102.23	11.77	22-Nov	03.11.2022	7.45	42.86	14.21	27.66	<0.4	25.2	112.8	9.12	17.11.2022	7.43	50.46	15.62	33.68	<0.4	24.6	100.45	13.57	22-Dec	07.12.2022	7.42	40.92	11.87	26.4	<0.4	24.6	104.91	10.44	21.12.2022	7.46	45.27	17.04	37	<0.4	24.8	109.87	14.75	23-Jan	04.01.2023	7.49	43.65	13.49	28.33	<0.4	24.8	101.57	12.66	18.01.2023	7.47	43.37	15.39	32	<0.4	24	112.47	16.08	23-Feb	03.02.2023	7.42	40.54	12.33	21.92	<0.4	24.1	106.74	10.36
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			17.02.2023	7.44	45.24	12.89	30	<0.4	24.2	114.35	14.22
23-Mar			03.03.2023	7.41	43.29	14.05	22.04	<0.4	25.3	113.68	11.87
			17.03.2023	7.47	42.58	10.47	28.55	<0.4	25.1	119.47	16.82
			Limits	5.5-9	250	30	100	10		2100	1000
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22-Oct			05.10.2022	7.48	53.59	14.58	26.41	<0.4	25.8	124	13.55
			19.10.2022	7.41	55.58	13.42	24.79	<0.4	25	106.84	8.28
22- Nov			03.11.2022	7.42	55.57	15.68	21	<0.4	24.5	119.24	14.76
			17.11.2022	7.44	53.44	14.68	22.51	<0.4	24.9	139.6	8.78
22-Dec			07.12.2022	7.43	48.04	14.84	19	<0.4	25	122.54	12.68
			21.12.2022	7.48	50.67	12.68	23.87	<0.4	24.2	135.8	9.14
23-Jan			04.01.2023	7.42	45.29	12.92	17	<0.4	25	117.14	11.92
			18.01.2023	7.44	46.72	10.56	20.43	<0.4	26.1	122.68	7.92
23-Feb			03.02.2023	7.45	48.68	11.88	15	<0.4	26	112.54	14.36
			17.02.2023	7.51	44.78	10.28	18.32	<0.4	26.4	118.45	9.84
23-Mar			03.03.2023	7.42	47.65	10.39	13	<0.4	24.2	110.33	12.14
			17.03.2023	7.48	47.26	12.59	16.76	<0.4	24.5	109.65	10.21
			Limits	5.5-9	250	30	100	10		2100	1000
(viii)	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.	Being Complied Vehicles are properly checked & maintained in workshop to control the emission and are being monitored regularly. Coal is being transported by covered belt conveyor from dump hopper to Silo for wagons loading.									
(ix)	Environmental laboratory should be established with adequate number and type of pollution monitoring	Complied A well equipped Environmental Laboratory with qualified staff has been established for monitoring and analysis of environmental parameters.									

S. No.	Conditions	Compliance Status																		
	and analysis equipment in consultation with the State Pollution Control Board.																			
(x)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	<p>Being Complied</p> <p>Personnel Protective respiratory devices are provided to employees working in mine area. Training programme is organized regularly for personnel working in dusty areas by qualified training officer and trainers at Amelia (North) Coal Mine as per provision of Mine Vocational Training Rules 1966. Medical Examination of the workers is undertaken as per provisions of Mines Rules, 1955. Dust survey is being carried out regularly in mine and CHP area as per provisions of Coal Mines Regulations, 2017.</p>																		
(xi)	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company.	<p>Complied</p> <p>Environmental Management cell has been established under the chairmanship of Shri Rajneesh Gaur (Executive Joint President) and other members are as follows:</p> <table border="1" data-bbox="819 874 1906 1101"> <thead> <tr> <th>S. No.</th> <th>Name</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Shri Uma Shankar</td> <td>Sr .Vice-President</td> </tr> <tr> <td>2</td> <td>Shri Krishna Chandra</td> <td>Sr. GM (Mines)</td> </tr> <tr> <td>3</td> <td>Shri P. L. Birla</td> <td>Add. GM (Civil)</td> </tr> <tr> <td>4</td> <td>Shri Sandeep Kr Sharma</td> <td>Asst. Manager (Env)</td> </tr> <tr> <td>5</td> <td>Shri Rohit Sharma</td> <td>Officer Environment</td> </tr> </tbody> </table>	S. No.	Name	Designation	1	Shri Uma Shankar	Sr .Vice-President	2	Shri Krishna Chandra	Sr. GM (Mines)	3	Shri P. L. Birla	Add. GM (Civil)	4	Shri Sandeep Kr Sharma	Asst. Manager (Env)	5	Shri Rohit Sharma	Officer Environment
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1	Shri Uma Shankar	Sr .Vice-President																		
2	Shri Krishna Chandra	Sr. GM (Mines)																		
3	Shri P. L. Birla	Add. GM (Civil)																		
4	Shri Sandeep Kr Sharma	Asst. Manager (Env)																		
5	Shri Rohit Sharma	Officer Environment																		
(xii)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to this Ministry and its Regional Office at Bhopal.	<p>A separate fund has been earmarked for environmental protection measures and is being maintained by finance and accounts department.</p> <p>Details of operational and maintenance expenditures are given below:-</p> <table border="1" data-bbox="819 1249 1910 1326"> <thead> <tr> <th>Year</th> <th>Expenditure (INR)</th> </tr> </thead> <tbody> <tr> <td>October 2022 to March 2023</td> <td>1.27 Crore</td> </tr> </tbody> </table>	Year	Expenditure (INR)	October 2022 to March 2023	1.27 Crore														
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October 2022 to March 2023	1.27 Crore																			
	The Regional Office of this	Agreed.																		



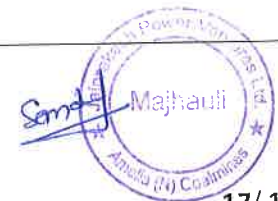
S. No.	Conditions	Compliance Status
(xiii)	Ministry located at Bhopal shall monitor compliance of the stipulated condition. The project authorities shall extend full corporation to the office(s) of the Regional Office by furnishing the requisite data/information monitoring reports.	Project Authorities will provide all requisite data/ information monitoring reports.
(xiv)	A copy of the Environmental Clearance will be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	Complied: Copy of EC sent to Panchayat and receipt has been taken. Initially Amelia (North) Coal Mine was in joint venture with MPSMCL. All the documentation part of the mine was maintained at MPSMCL office, Bhopal. At the time of de - allocation & subsequent transfer of the mine to JPVL unfortunately we couldn't retrieve the documentation from MPSMCL & hence now we are unable to furnish the receipted copy from Grampanchayat, which is in files with MPSMCL.
(xv)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Center and Collector's Office/Tehsildar's Office for 30 days.	Complied



S. No.	Conditions	Compliance Status
(xvi)	<p>The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at the website of the ministry of Environment & Forests at http://envfor.nic.in.</p>	<p>Complied. Initially Amelia (North) Coal Mine was in joint venture with MPSMCL. All the documentation part of the mine was maintained at MPSMCL office, Bhopal. At the time of de-allocation & subsequent transfer of the mine to JPVL. unfortunately we couldn't retrieve the documentation from MPSMCL & hence now we are unable to furnish the advertisement in two local news papers. With great difficulty, we could manage to retrieve one advertisement. Relevant photographs of advertisement is given below</p> <div data-bbox="1160 469 1532 842" style="text-align: center;"> </div>

As per Transfer of Environmental Clearance letter dated: 13.05.2015

S. No.	Conditions	Compliance Status
(i)	<p>Any change in scope of work will attract the provisions of Environment Protection act (EPA) 1986 and Environmental Impact assessment notification 2006 in conjugation with the subsequent amendment/ circulars.</p>	<p>Agreed to Comply Project authority is agreed with this condition. The working is being done as per Mining Plan approved by Ministry of Coal, New Delhi. We once again ratify & agree to comply with the said stipulation conditions.</p>
(ii)	<p>All conditions stipulated in the EC letter no J-11015/355/2006-IA. II (M) dated: 20.07.2007 shall remain unchanged.</p>	<p>Agreed to Comply Agreed for all the conditions stipulated in the EC letter no J-11015/355/2006-IA. II (M) dated: 20.07.2007. We once again ratify & agree to comply with the said stipulation conditions.</p>



S. No.	Conditions	Compliance Status
(iii)	The successful bidder shall be liable if any act of violation of the EPA 1986/ EIA Notification 2006/ subsequent amendment/ circulars which it has inherited during the transfer.	Project authority is agreed with this condition, if any act of violation of the EPA 1986/ EIA Notification 2006/ subsequent amendment/ circulars which it has inherited during the transfer shall be liable.
(iv)	Successful bidder shall be liable for compliance of all court direction, if any.	Project Authority assures that all court directions shall be complied.
As per EAC Condition		
(i)	Addl. slope stabilization measures i.e., to plant the deep rooted native plant species (in consultation with local DFO) on the OB facing the river, shall be undertaken so as to minimize the possible OB erosion, if any.	<p>Being Complied</p> <p>For additional slope stabilization measures, deep rooted native plant and seed species have been planted in consultation with local DFO. Deep rooted native plants have been selected among Kala Siris, Neem, Acacia Auriculiformis, Acacia Semiya, and Kachnar. During FY 2022-23 , 75,000 saplings have been planted.</p> <p>A total of 3,74,759 saplings of native species have been planted at dumps and other areas till March 2023.</p>
(ii)	Regular desilting (at least bi-monthly) of garland drains shall be ensured and the compliance of the same shall be reflected in the six-monthly compliance to MoEF&CC, Regional office Bhopal.	<p>Being Complied</p> <p>Regular desilting of garland drains is being done daily in monsoon period & bi-monthly in other periods.</p>
(iii)	Settling tanks along the river front shall be properly maintained to ensure proper settling of OB	Total 17 nos. of settling/siltation ponds have been constructed to arrest silt and sediments flown from dumps.
As per Office Memorandum Dated 16.01.2020 Additional Environment Clearance condition		
(i)	The mining lease holders shall, after ceasing mining operation, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for	<p>Noted & Agreed</p> <p>Presently coal mine is in operation and the condition will be complied with in the end of coal mine.</p>

S. No.	Conditions	Compliance Status
	growth of fodder, flora, fauna etc.	

