

AMELIA NORTH COAL MINE

A UNIT OF JAIPRAKASH POWER VENTURES LIMITED
ISO CERTIFIED : 9001: 2015, 14001: 2015 & 45001: 2018

JAIPRAKASH
POWER VENTURES LIMITED



QUALITY

ENVIRONMENT

HEALTH & SAFETY

Ref.: JPVL/Amelia/ Mine/2024-25/ 49

Date: 23.05.2024

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 -462016 (M.P.)

Sub: Six Monthly Environmental Clearance Compliance Status Report for the Period **October 2023 to 6th February 2024** 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 13th May 2015.
(iii) Letter No. J11015/355/2006-IA-II (M) dated 16th January 2023.

Sir,

We are submitting herewith point wise Compliance Report for the period **October 2023 to 6th February 2024** to the conditions specified in the Environmental Clearance granted by MoEF&CC Letter No. J11015/355/2006-IA. II (M) dated 16th January 2023 for 3.36 MTPA Amelia (North) Coal Mine of M/s Jaiprakash Power Ventures Limited, located in Village Majhauli, Tehsil – Deosar, District – Singrauli, (Madhya Pradesh).

This is for your kind information and acceptance please.

Thanking you

Yours faithfully

For Jaiprakash Power Ventures Ltd.

(Authorized Signatory)

Encl: as above 23.05.2024

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.Majhauli,P.O.-Bandha,Tehsil-Deosar, Distt. - Singrauli, Madhya Pradesh, India - 486886
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Corp.Office : 'JA House', 63 Basant Lok, Vasant Vihar, New Delhi-110 057 (India)
Ph.:+91(11)26141540,26147411Fax:+91(11)26145389,26143591
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.jppowerventures.com**E-mail:**jpvl.investor@jalindia.co.in
CIN:L40101MP1994PLC042920

JAYPEE
GROUP

Half – Yearly Compliance Report

Of

Environmental Clearance

Period: October 2023 – 6th February 2024

Of

Amelia (North) Coal Mine

M/s Jaiprakash Power Ventures Ltd.

Capacity-3.36 Million Tonnes Per Annum

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

Submitted To:

Regional Office, Western Zone

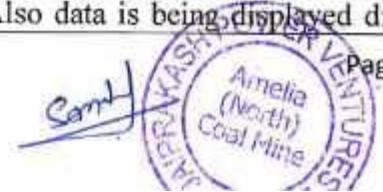
Ministry of Environment, Forest & Climate Change

&

Zonal Office, Central Pollution Control Board, Bhopal &

Madhya Pradesh Pollution Control Board, Bhopal

Name of The Project		Amelia (North) Coal Mine, Unit of M/s Jaiprakash Power Ventures Limited, Production Capacity- (2.8 to 3.36, Stage-I) MTPA, Mining lease of 728.75 ha., Village – Majhauri, Tehsil – Deosar, District – Singrauli, (Madhya Pradesh)
EC Letter No		EC Identification No. EC 23A006MP158876 J-11015/355/2006-IA-II(M) dated 16th January 2023 by MoEF&CC (GOI) New Delhi
Period of Compliance		October 2023 to 6th February 2024
S.No.	Specific Conditions	Status
(i)	PP shall comply all the conditions stipulated by Ministry's EC vide its latter no. No. J-11015/355/2006-IA.II(M) dated 20th July,2007 and complete the non- compliance.	Complied All the stipulated EC conditions have been complied vide Letter No. J-11015/355/2006-IA. II (M) dated 20 th July, 2007 & Letter No.: J-11015/355/2006-IA. II (M) dated 13 th May 2015, by MoEF&CC (GOI) New Delhi.
(ii)	PP to implement the Action Plan as framed by SPCB/CPCB for specific project that falls under Singrauli as severely polluted area and implement in time bound manner.	Not Applicable <ul style="list-style-type: none"> • Amelia (North) Coal Mine does not fall under severely polluted area. • Amelia (North) Coal Mine is 11.68 Km away from Singrauli SPA (Severely Polluted area). • A copy of Distance certificate between Singrauli Severely Polluted area and boundary of Amelia (North) Coal Mine certified by M.P. Pollution Control Board (MPPCB), Bhopal vide letter dated 27.10.2023 is attached as Annexure 01.
(iii)	Adequate safe distance of 100 mts to be made from the bank of river from the disposal of OB to ensure no spill over to river.	Complied As the two external OB dumps have been completed and stabilized by Biological reclamation, disposal of OB is being done in internal dumps only with adequate safe distance of more than 100 mts from the bank of river to ensure no spill over to river.
(iv)	Mining shall be carried out only by surface miners for the project (as proposed) and silo loading till railway siding through in-pit conveyor. No road transportation shall be conducted.	Complied Coal extraction is being carried out only by surface miners. Coal is being sent to silo through belt conveyor of CHP and then loaded in to railway wagons. No road transportation is being conducted outside the mine premises.
(v)	PP to install 1 more continuous ambient air quality monitoring station at suitable location preferably	Complied 1 more continuous ambient air quality monitoring station has been installed at village side and the real time data so generated uploaded on company website. Also data is being displayed digitally at entry



village side and with consultation of SPCB. The real time data so generated shall be uploaded on company website. In addition, data should also be displayed digitally at entry and exit gate of mine lease area for public display.

and exit gate of mine office for public display.

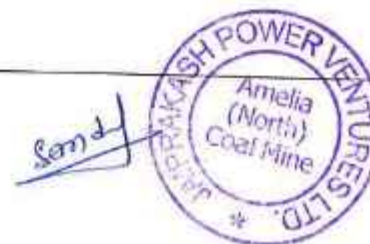
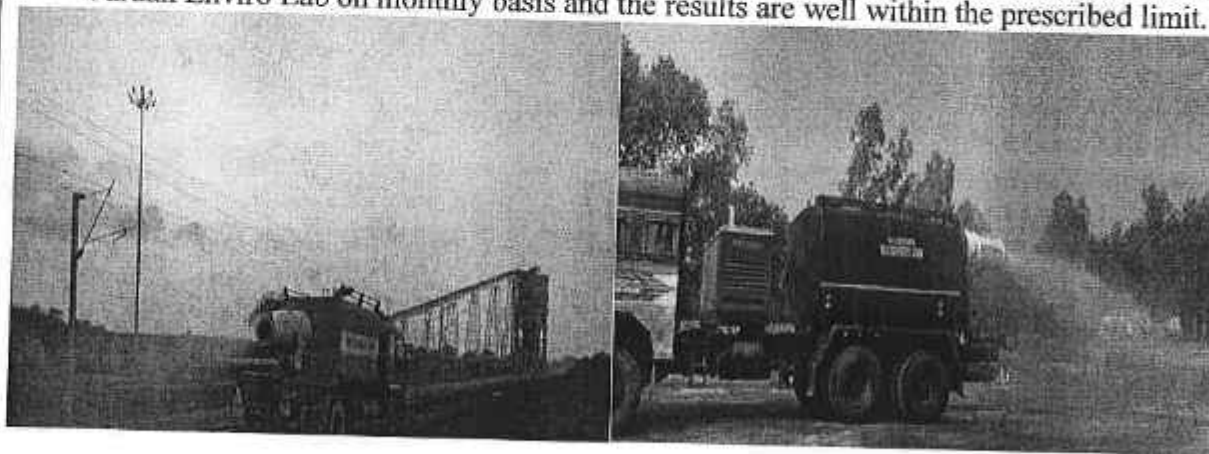
CAAQMS photograph is attached.



(vi) PP shall install fixed fog cannon (mist sprayer) all along the haul road till CHP, Railway siding and OB Dump area and accordingly sufficient number of fog cannons (not less than 10 nos.) with 40 mts jet length shall be installed within 6 months. It should be ensured that air pollution level confirm to the standards prescribed by the MOEFCC/CPCB.

Complied

- Mist fog cannon (Truck Mounted) in operation in the Mines, haul road and CHP area
- Monitoring of Air quality is being carried out by NABL and MoEF & CC approved laboratory by Vardan Enviro Lab on monthly basis and the results are well within the prescribed limit.



(vii)	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.	<p>Complied Wind breaking screen 54 m long 3m to 6 m height at coal unloading point and wind breaking wall 200 m long at wharf wall/ railway siding has been constructed to control the fugitive emission.</p>																																															
(viii)	PP to develop an ECO park with separate area of 5 ha for medicinal and herbal species within two years.	<p>Being Complied</p> <ul style="list-style-type: none"> Eco Park with 2.0 Ha area has been developed. Rest of land is being identified. A total 14000 nos. of herbal & medicinal plants have been planted in ECO park i.e. Alovera, Arjuna, Green Chireta, Leman Grass, Terminalia, Texas Sage etc in 2.0 ha. 																																															
(ix)	Top soil should be stored separately at marked area and necessary vegetation shall be maintained to avoid any entrainment of dust	<p>Being Complied Top soil is being stacked at earmarked site and it is being utilized for plantation work.</p>																																															
(x)	Progressive backfilling of mine and progressive reclamation by conducting tree plantation of OB dump shall be done	<p>Being Complied. Biological reclamation of dumps is a continuous process till the life of the mine. We are carrying out the biological reclamation as per afforestation plan. A total of 4,67,709 saplings of native and exotic species have been planted at dumps and other areas till Jan 2024.</p> <table border="1" data-bbox="840 813 2172 1340"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="5">Plantation Programme</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> <th>Total no. of trees</th> </tr> </thead> <tbody> <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>34.79</td> <td>87000</td> </tr> </tbody> </table>	Year	Plantation Programme					External Dump (ha)	Back filled Area (ha)	Un-disturbed Area (ha)	Barrier zone	Total (ha)	Total no. of trees	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	-		34.79	87000
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		2028-29		26.50	-		26.50	66250
		2029-30		26.50	-		26.50	66250
		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	48.29	360.5	0	9.00	417.79	1047000

(xi) Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, 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 growth of fodder, flora, fauna etc. Compliance

Noted and Agreed



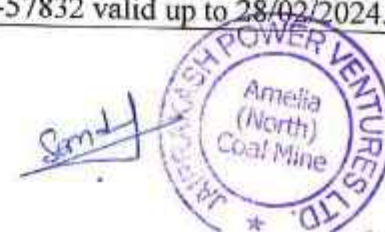
	of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEFCC.	
Additional Specific conditions as the area falls under Severally Polluted Areas (SPAs)		
(i)	Transportations of materials by rail/ conveyor belt shall be implemented	<p>Not Applicable</p> <ul style="list-style-type: none"> • Amelia (North) Coal Mine does not fall under severely polluted area. • Amelia (North) Coal Mine is 11.68 Km away from Singrauli SPA (Severely Polluted area). <p>A copy of Distance certificate between Singrauli Severely Polluted area and boundary of Amelia (North) Coal Mine certified by M.P. Pollution Control Board (MPPCB), Bhopal vide letter dated 27.10.2023 is attached as Annexure 01 same as Condition No. (ii) of Specific condition</p>
(ii)	Encourage use of cleaner fuels for trucks, if the roads required to be widened up to nearest Railway Sidings, the same be constructed to avoid traffic congestion.	
(iii)	Increase green belt cover by 40% of the total land is beyond the permissible requirement of 33%, wherever feasible.	
(iv)	Green belt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc shall be implemented.	
(v)	Assessment of carrying capacity of mine & road transportation shall be done as per the State Plan/ instructions.	
(vi)	Reuse / Recycle of treated waste water shall be implemented as feasible with latest technology. Zero liquid discharge concept may be adopted.	



(vii)	PP to install Continuous monitoring station for ambient air quality and also continuous effluent quality in ETP shall be installed. Data so generated shall be linked with respective SPCB and CPCB website.	
(viii)	A detailed water harvesting plan may be prepared by the project proponent for water augmentation and submitted to Regional Office of MoEF&CC.	
(x)	The project proponent shall install STP for generated domestic wastewater and should meet for discharged standards.	
(xi)	More stringent norms for management of hazardous waste like oil container, ETP sludge etc shall be adopted. The waste generated should be preferably utilized in co-processing.	
(xii)	Monitoring of compliances of EC conditions may be submitted with third party audit every year.	
S.No.	(a) Statutory compliance	
(i)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project	<p>Complied</p> <p>All necessary approvals and clearances have been obtained. The details are as follows:-</p> <ul style="list-style-type: none"> • Forest Clearance was received for 728.75 ha. Forest land vide MoEF, letter no. 8- 08/2007/FC, dated 30.11.2012. • Forest Department, Govt. of Madhya Pradesh, Bhopal letter no. D-2270/3521/2012/10-3 dated 24.12.2012. • Principal Chief Conservator of Forest (Land Management) – Office Madhya Pradesh - Bhopal



		<p>letter no. F-1/442/07/10-11/260 dated: 16.01.2013</p> <ul style="list-style-type: none"> • Divisional Forest Officer – Singrauli (Madhya Pradesh) letter no. M.chi./212 dated: 21.01.2013. • Forest Clearance has been received for 728.75 ha. Forest land vide MoEF&CC, letter no. 8-08/2007/FC. Dated: 11.05.2015. <p>Forest Department, Govt. of Madhya Pradesh, Bhopal letter no. 919/1390/2015/10-3, Bhopal, Dated: 20.05.2015.</p>
(ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	<p>Not Applicable</p> <p>Wild life clearance is not required.</p>
(iii)	The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).	<p>Complied</p> <ul style="list-style-type: none"> • 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. • 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. • 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 All coal blocks of Singrauli Main Basin including Amelia (North) Coal Block, out of which Rs. 1270 lakhs has been spent. • A letter has been sent to the concerned MP Forest Department for obtaining the information regarding the incurred expenses for Wildlife Conservation and Management dated 12.10.2022. Recently we have sent one more letter to the concerned MP Forest Department for obtaining the information regarding the incurred expenses for Wildlife Conservation and Management on dated 17/18.08.2023. Aforesaid correspondences with MP Forest Department are attached as Annexure- 02.
(iv)	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and	<p>Complied</p> <p>Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 has been granted by MPPCB vide Out ward No:- 117673, 10/3/2023 Consent No. – AW -57832 valid up to 28/02/2024.</p>



	the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	
(v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	Complied Renewal of NOC has been granted by Central Ground Water Authority vide NOC No. CGWA/NOC/MIN/REN/3/2023/8124 and it is valid up to 30/12/2024.
(vi)	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016 / Hazardous & Other Waste Management Rules, 2016.	Being Complied Authorization of Hazardous Waste under Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 has been renewed vide Consent No: H-54285, Hazd. Validity: 31/10/2026, Outward No: 113594, 25/09/2021. Precautions are being taken as per Solid Waste Management Rules 2016.
(b) Air quality monitoring and preservation		
(i)	Continuous ambient air quality monitoring stations as prescribed in the statue be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr,	Being Complied <ul style="list-style-type: none"> • 04 Nos. CAAQMS (Continuous Ambient Air Quality Monitoring System) have also been installed at Mines area, CHP site, Base Camp area & Village side. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, have been carried out by M/s Vardan EnviroLab, Gurugram NABL & MoEF&CC approved laboratory and results are found within below detectable limit.



etc to be carried out at least once in six months.

(ii) The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.

Being Complied

Four ambient air quality monitoring locations have been established in core zone (Mine Site) and buffer zone (Villages: Base Camp-Majhauri, Kunda and Manihari) in consultation with the M.P. Pollution Control Board, Singrauli (M.P.) and ambient air quality is being monitored regularly and parameters are found within the prescribed limit as per Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time Monthly air quality monitoring report is being submitted to Regional Office, MPPCB, Singrauli, on regular basis.

Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, have been carried out by NABL & MoEF & CC approved laboratory by M/s Vardan EnviroLab, Gurguram and results are found within below detectable limit. The data is being regularly reported to the Regional office and to the SPCB.

AMBIENT AIR QUALITY MONITORING RESULT

For the period of Oct 2023 to Jan-2024

	Sampling Location	Parameters	Max.	Min.	Avg.
1.	Mine Site (Core Zone)	*SPM (ug/m3)	142.64	137.11	135.16
		*RSPM (ug/m3)	73.60	70.94	72.27
		*SO2 (ug/m3)	9.23	9.05	9.14
		*NOx (ug/m3)	25.78	24.85	25.32
2.	WTP Township (Village: Majhauri)	PM10 (ug/m3)	55.64	53.11	54.38
		PM2.5 (ug/m3)	36.66	33.87	35.27
		SO2 (ug/m3)	7.66	7.04	7.35
		NOx (ug/m3)	19.34	16.89	18.11
3.	Village: Kunda	PM10 (ug/m3)	52.03	49.96	51.0
		PM2.5 (ug/m3)	33.18	30.59	31.88
		SO2 (ug/m3)	6.20	5.29	5.75
		NOx (ug/m3)	15.08	13.14	14.11
4.	Village: Manihari	PM10 (ug/m3)	54.72	51.41	53.06
		PM2.5 (ug/m3)	35.43	31.87	33.65
		SO2 (ug/m3)	7.06	5.99	6.52
		NOx (ug/m3)	17.20	14.51	15.85

*Note: Limits are as per Table-I of S.No. 90 (Standards for Coal Mines) of Schedule -I under Rule 3 of Environment Protection Rules, 1986



(iii)	<p>Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of PM10/PM2.5) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.</p>	<p>Being Complied</p> <ul style="list-style-type: none"> • Coal is being sent to silo through belt conveyor of CHP and then loaded in to railway wagons. No road transportation is being conducted outside mine premises. • Mist fog cannon (Truck Mounted) in operation in the Mines, haul road and CHP area. • In addition to above, 52 nos. Static high pressure Water Sprinklers have been installed along the coal transport road from mine to CHP and in operation. • Fugitive dust emission is being controlled regularly by static water sprinklers and mist fog cannon. <p>Ambient air quality is being monitored regularly and parameters are found within the prescribed limit as per Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time. Monthly air quality monitoring report is being submitted to Regional Office, MPPCB, Singrauli, on regular basis.</p>
(iv)	<p>The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.</p>	<p>Complied</p> <p>Amelia (North) Coal Mine is captive coal mine and linkage with JNSTPP and Coal is being sent to silo through belt conveyor of CHP and then loaded in to railway wagons. No road transportation is being conducted outside mine premises.</p>
(v)	<p>Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC'</p>	<p>Being Complied</p> <ul style="list-style-type: none"> • Vehicles are properly checked & maintained in workshop to control the emission and are being monitored regularly and PUC Certificate from authorized pollution centre have been obtained and records are being maintained regularly



	operate only after obtaining 'PUC' certificate from the authorized pollution testing centers.	
(vi)	Coal stock pile / crusher / feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.	<p>Being Complied</p> <ul style="list-style-type: none"> • 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 to avoid air borne dust. Side cladding all along the transfer points of conveyor has been made. • 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. • Water injector systems have been provided in drills for wet drilling.
(vii)	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.	<p>Being Complied</p> <ul style="list-style-type: none"> • 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 at rapid loading system (Coal Silo), water spraying is being done in the form of mist. • A network of static sprinklers has been installed at Coal Stock Yard and mist fog cannon (Truck Mounted) in operation for controlling fugitive emissions in CHP Area.
(c) Water quality monitoring and preservation		
(i)	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.	<p>Being Complied</p> <ul style="list-style-type: none"> • Mine water is being collected in sumps & used in dust suppression and plantation. • Oil and grease trap has been provided for workshop effluents. • ETP (80 KLD) has been installed to treat effluent of CHP/Workshop area.



**TREATED EFFLUENT WATER RESULTS:-
(80 KLD ETP)**

For the period of Oct 2023 – Jan 2024

Month	Date of Sampling	PH	COD Mg/l	BOD Mg/l	TSS Mg/l	O/G Mg/l	Temperature Degree C	TDS Mg/l	Chloride Mg/l
Oct-23	04.10.2023	7.48	53.25	11.52	24.38	<0.4	28.0	120	9.26
	18.10.2023	7.47	54.12	10.94	25.16	<0.4	27.8	121	8.95
Nov-23	07.11.2023	7.52	52.36	10.22	23.57	<0.4	26.0	125	8.84
	21.11.2023	7.50	53.18	10.84	24.45	<0.4	25.8	118	9.06
Dec-23	05.12.2024	7.45	50.24	10.62	21.38	<0.4	25.40	124	9.75
	19.12.2024	7.51	54.22	10.28	23.05	<0.4	25.00	128	10.37
Jan-24	03.01.2024	7.52	51.78	14.00	23.00	<0.4	26.00	132	10.45
	17.01.2024	7.50	56.02	12.00	21.00	<0.4	25.40	121	8.76
	Limits	5.5-9	250	30	100	10		2100	1000

(ii) The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.

Being Complied

Regular monitoring data of PM10, SO2, NOx, CO are being monitored. Data on PM10, SO2, NOx, CO are continuously displayed at project site main gate and data is being uploaded on company website along with six monthly EC compliance report.

(iii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new

Being Complied

- 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



	<p>piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.</p>	<p>monitoring of groundwater level in buffer zone area.</p> <ul style="list-style-type: none"> Monitoring of groundwater level from existing dug wells and piezometers is being carried out four times in a year and the results are being submitted to MoEF&CC, Regional Office, Bhopal and CPCB, Zonal Office, Bhopal etc. Regular monitoring of ground water quality is being done and being submitted to MoEF&CC, Regional Office, Bhopal and CPCB, Zonal Office, Bhopal etc.
(iv)	<p>Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.</p>	<p>Being Complied</p> <ul style="list-style-type: none"> Monitoring of surface water quality upstream and downstream of (Kanchan Nala) is being carried out once in six month by NABL and MoEF & CC approved laboratory by M/s Vardan EnviroLab Gurugram. Surface water quality results are found well within prescribed limit. Regular monitoring of surface water quality is being done and being submitted to MoEF&CC, Regional Office, Bhopal and CPCB, Zonal Office, Bhopal etc.
(v)	<p>Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources</p>	<p>Being Complied</p> <ul style="list-style-type: none"> No ground water is being used for mining operations, only treated mine water is being used in dust suppression and plantation. 02 nos. of rain water harvesting pits are constructed at core zone for recharging of ground water table.
(vi)	<p>Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of</p>	<p>Being Complied</p> <ul style="list-style-type: none"> Catch/garland drains of length 44.2 Km have been constructed for proper collection of water flow from soil, OB, and mineral dumps and its maintenance is being done regularly along with other mine development work. 05 Nos. sumps have been constructed for collection of mine water, presently 02Nos. 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. 18Nos. of siltation ponds have been constructed to arrest silt and sediments flown from dumps. The collected mine water in sumps is being utilized for mining activities i.e. dust suppression and



	<p>water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field / habitation / water bodies.</p>	<p>plantation.</p> <ul style="list-style-type: none"> 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. <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 planted with Aam, Amrud, Ashoka, Papita, Gulmohar, Mahuwa, Neem, Sirus, Kathal, Jamun, Aamla, Kadam, Bargad, Peepal, Sagwan, Arjun, Imli, Bel, Sahajan, Bair, Harra & Bhera, Kachnar, Amaltas, Shahtoot, Gular, Semal, Molsiri, Kala Siris, Neem, Acacia Auriculiformis, Acacia Semiya, and Kachnar etc. A total of 4,67,709 saplings of native species have been planted at dumps and other areas till Jan 2024.</p>
(vii)	<p>Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).</p>	<p>Being Complied</p> <ul style="list-style-type: none"> 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). <p>Restoration and rejuvenation of 05 nos. existing ponds in 05 different locations like Majhauili, 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>
(viii)	<p>Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed</p>	<p>Being Complied</p> <ul style="list-style-type: none"> Oil and grease trap has been provided for workshop effluents. In addition to the above, ETP (80 KLD) has been installed to treat effluent of CHP/Workshop area. S.T.P. 300 KLD has been constructed and in operation for domestic waste water treatment and the parameters are within the prescribed limits.



under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate ETP /STP needs to be provided.

**TREATED WASTE WATER RESULTS:-
(300 KLD STP)**

For the period of Oct 2023 – Jan 2024

Month	Date of Sampling	pH (at 25 degree C)	COD	TSS	Oil and Grease	Temperature	BOD (3 days at 27 degree C)	Fecal Coli form
Oct-23	04/10/2023	7.23	74.22	20.64	<0.2	25.4	15.38	40
	18/10/2023	7.25	72.48	18.76	<0.2	25.2	14.32	34
Nov-23	07/11/2023	7.28	68.32	16.84	<0.2	25.7	14.27	30
	21/11/2023	7.29	70.58	18.35	<0.2	25.6	15.06	40
Dec-23	05/12/2023	7.26	69.05	17.23	<0.2	26	14.62	50
	19/12/2023	7.2	66.74	16.26	<0.2	25.8	13.52	40
Jan-24	03/01/2024	7.27	65.69	16	<0.2	25	15	30
	17/01/2024	7.3	63.61	15	<0.2	25.7	14	34
	Limits	5.5-9	250	100	10		30	<1000

(ix) The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

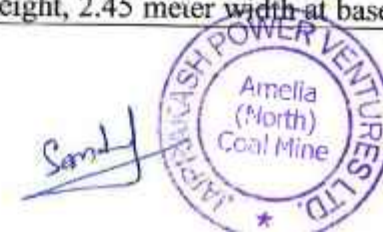
Being Complied

- Mine water is being collected in sumps and used in dust suppression and plantation.
- All drains are being regularly de-silted during the monsoon and also being maintained properly after monsoon

(x) The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river / rivulet / pond / lake etc, shall be prepared and

Being Complied

- Catch/garland Drains all along the periphery of dumps and workings are constructed to prevent surface run off of water and channelize it to siltation ponds during monsoon period.
- 18 Nos. of siltation ponds have been constructed to arrest silt and sediments flown from dumps.
- Regular desiltation of garland drains, catch drains, siltation ponds is being done.
- Retaining walls of 3209 mtrs long (2 meter height, 2.45 meter width at base and 0.45 meter at the



	<p>implemented by the project proponent. The surface drainage plan and / or any diversion of natural water courses shall be as per the approved Mining Plan / EIA / EMP report and with due approval of the concerned State / GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.</p>	<p>top) at the toe of external overburden Dump 'A' & 'B' have been constructed to check run-off and siltation.</p> <ul style="list-style-type: none"> • There is no requirement of any diversion of natural water course of Kanchan Nala. • There is no danger against inrush of surface water into the mine as mine entrance is more than 50 mtrs of river water course. (As per Coal Mines Regulations 2017, danger limit against inrush of surface water into the mine is stipulated as 1.5 mtrs above of the HFL of river).
(xi)	<p>The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.</p>	<p>Compliance in progress</p> <ul style="list-style-type: none"> • Riverine/Riparian Ecosystem conservation & Management Plan is under preparation by Greencindia Consulting Private Ltd in consultation with the water resource department. • A Site Survey Report for Riverine/Riparian Ecosystem Conservation & Management has been prepared by consultant.
<p>(d) Noise and Vibration monitoring and prevention</p>		
(i)	<p>Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective</p>	<p>Being Complied</p> <ul style="list-style-type: none"> • Regular monitoring of work zone noise level is being done for HEME operator cabin and Noise level is below 75 dB (A). • Ear plugs/ muffs have been provided to workers as per requirement.



equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.

Noise Monitoring Results for the period October 2023 to January 2024 is below:-

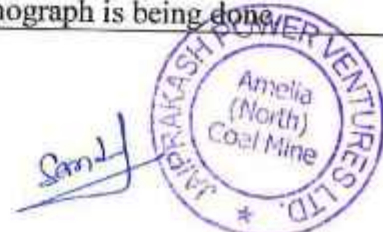
Month	Location	Leq (Day Time) dB(A)	Leq (Night Time) dB(A)
Oct-2023	Mine Office (Core Zone)	66.91	57.39
	Vill - Majhuli	52.95	41.70
	Vill - Kunda	46.08	35.62
	Vill -Manihari	49.85	37.83
Nov-2023	Mine Office (Core Zone)	69.10	59.08
	Vill - Majhuli	53.19	41.06
	Vill - Kunda	45.35	34.99
	Vill -Manihari	49.03	38.85
Dec-2023	Mine Office (Core Zone)	64.44	59.05
	Vill - Majhuli	52.04	40.62
	Vill - Kunda	44.94	36.02
	Vill -Manihari	47.23	36.63
Jan-2024	Mine Office (Core Zone)	65.59	59.41
	Vill - Majhuli	51.39	40.85
	Vill - Kunda	44.96	37.90
	Vill -Manihari	44.37	36.65
CPCB Limit in dB(A) Leq (Industrial Area)		75	70
CPCB Limit in dB(A) Leq (Residential Area)		55	45

(ii) Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.

Being Complied

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 boulders are being taken:

- Proper blast design,
- Use of cord relay for delay timing,
- Use of Nonel with Optimum charge per delay and proper spacing and burden.
- Blast holes in the OB are being properly packed and stemmed for locking.
- No blasting is carried out in coal seam. Coal is extracted by Surface Miners only.
- Regular monitoring of ground vibrations by seismograph is being done



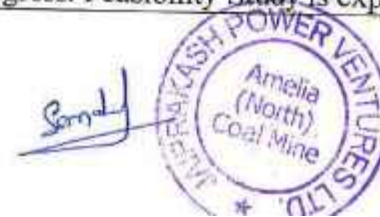
(iii)	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.	<p>Being Complied</p> <ul style="list-style-type: none"> Noise level survey has been carried out and monitoring report has been submitted on monthly basis to the office of RO, MPPCB and IT Cell MPPCB Bhopal. Report is being submitted on six monthly basis to the Ministry/RO.
(e) Mining Plan		
(i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable	<p>Being Complied</p> <p>Mining is carried out as per provisions of Mines Act 1952 and subordinate legislations made there-under as applicable.</p>
(ii)	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan)abiding by mining laws related to coal mining and the relevant circulars issued by DirectorateGeneral Mines Safety (DGMS).	<p>Being Complied</p> <p>Mining is being carried out by approved mining plan (including Mine Closure Plan)abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).</p>
(iii)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	<p>Complied</p> <p>All necessary approvals and clearances have been obtained and The details are as follows:-</p> <ul style="list-style-type: none"> Forest Clearance was received for 728.75 ha. Forest land vides MoEF, letter no. 8-8/2007/FC, dated 30.11.2012. Forest Department, Govt. of Madhya Pradesh, Bhopal letter no. D-2270/3521/2012/10-3 dated 24.12.2012. Principal Chief Conservator of Forest (Land Management) – Office Madhya Pradesh - Bhopal letter no. F-1/442/07/10-11/260 dated: 16.01.2013 Divisional Forest Officer – Singrauli (Madhya Pradesh) letter no. M.chi./212 dated: 21.01.2013. Forest Clearance has been received for 728.75 ha. Forest land vide MoEF&CC, letter no. 8-08/2007/FC. Dated: 11.05.2015. Forest Department, Govt. of Madhya Pradesh, Bhopal letter no. 919/1390/2015/10-3, Bhopal,



		Dated:- 20.05.2015. Mining is being carried out in forest land as per applicable laws.
(iv)	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	Being Complied <ul style="list-style-type: none"> • Regular Maintenance of haul roads is being done in respect of proper gradient and leveling. • All Mining equipments are being maintained with scheduled periodical and preventive maintenance. • Necessary initiatives have been taken to reduce energy consumption like replacing conventional light with LEDs. Using star rated ACs and other electrical appliances. • 2 KVA solar lighting have been fitted at Magazine area, Amelia (North) Coal Mine. • 02 Nos Electrical vehicles (LMV) are being used to reduce fuel consumption and to minimize vehicular emission.
(f) Land reclamation		
(i)	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).	Being Complied Digital Survey of entire lease hold area/Core zone using Satellite Remote Sensing survey is being carried out once in three years. The latest 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.
(ii)	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for	Agreed & Noted



	agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.	
(iii)	The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/ "post mining" land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.	<p>Being Complied</p> <ul style="list-style-type: none"> • Backfilling and afforestation works are being done as per approved Mining plan and EIA/EMP report submitted to RO, MoEF & CC Bhopal. • The two external OB dumps have been completed and stabilized by Biological reclamation. • Presently, generated OB is being backfilled in internal dumps. • Compliance report regarding afforestation plan is regularly submitted to RO, MoEF & CC, Bhopal on six monthly basis.
(iv)	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted	<p>Noted and Agreed</p> <ul style="list-style-type: none"> • At present, Amelia (North) Coal Mine is operating at very high stripping ratio of approx 8 (ratio of volume of waste rock/OB to be removed per ton of coal). There is acute shortage of dumping space in internal dumps as external dumps have been completed with biological reclamation and any addition of fly ash from neighbouring power plant will aggravate the problems and the situation may land us in closure of the mine. • Accommodation of fly ash in the OB dumps would also require raising the height of the dumps which would be detrimental to the safety of the mine. • Leaching effect of the fly ash in dumps is also hazardous as the OB dumps are exposed to surrounding forest area and water bodies. Kanchan River flows on the Eastern side of mining lease area which feeds water to Kanchan reservoir at Northern side of mining lease area. This reservoir provides water to the irrigation canal system for irrigation to 28 villages downstream. • After direction of the Committee on Fly ash Utilization, Feasibility Study by CSIR –CIMFR regarding disposal of fly ash in OB is under progress. Feasibility Study is expected to be completed



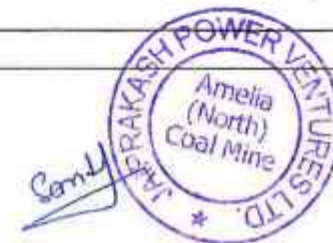
	to Regional Office of MoEF&CC, CPCB and SPCB.	by 31.05.2024. Recommendations of the above report will be implemented accordingly.
(v)	Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.	Being Complied <ul style="list-style-type: none"> • Top soil is being stacked at earmarked site and it is being utilized for reclamation and plantation work. • OB dumps are being stabilized with physical and biological reclamation as per afforestation plan. Native grass species have been planted to prevent erosion and surface runoff. • Other OB dumps (External dumps) have been vegetated with native flora species. • The excavated area is being backfilled and afforested as per approved mine closure and afforestation plan. • Monitoring and management of rehabilitated areas (External OB dumps) is being continued. • Compliance status is being submitted regularly along with six monthly EC compliance report to Ministry of Environment, Forest and Climate Change/ Regional Office.
(vi)	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In	Not Applicable No Grazing land is involved in the core zone of the project.



	<p>this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.</p>	
(g) Green Belt		
(i)	<p>The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department</p>	<p>Complied</p> <ul style="list-style-type: none"> • 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 i.e. MPSMCL in CAMPA A/c No. 391702010098522 on 24.11.2012 towards pro-rata share of Amelia (North) Coal Block. • 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. • 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 All coal blocks of Singrauli Main Basin including Amelia (North) Coal Block, out of which Rs. 1270 lakhs has been spent. • A letter has been sent to the concerned MP Forest Department for obtaining the information regarding the incurred expenses for Wildlife Conservation and Management dated 12.10.2022. Recently we have sent one more letter to the concerned MP Forest Department for obtaining the information regarding the incurred expenses for Wildlife Conservation and Management on dated 17/18.08.2023. Aforesaid correspondences with MP Forest Department are attached as Annexure-2 same as condition No. (iii) of statutory compliance.
(ii)	<p>Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be</p>	<p>Being Complied</p> <ul style="list-style-type: none"> • Natural forest (RF) area of 7.5 mtr width (Safety Zone) along the mine lease boundary has not been disturbed. It is being maintained as Greenbelt in natural form. • Every year extensive plantation is being done. • The target for plantation in the year 2023-24 was 92950 and has been achieved. • A total of 4,67,709 saplings of native species have been planted at dumps and other areas till Jan 2024.



	developed all along the major approach/ coal transportation roads.	
(b) Public hearing and Human health issues		
(i)	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis.	<p>Noted & Agreed</p> <ul style="list-style-type: none"> All mine locations are illuminated as per the DGMS standards and weekly monitoring is regularly being done. The report on the same is being submitted to the MoEF & CC & it's RO on six-monthly basis. Reports are attached as Annexure 03.
(ii)	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.	<p>Being Complied</p> <ul style="list-style-type: none"> Total Medical Examinations for 4050 (IME – 2746 & PME – 1304) no. of employees have been carried out up to Jan 2024 as per Mines Rules, 1955. Health check-up / Medical Examination of (IME - 127) & (PME -0) employees have been carried out as per Mines Rules, 1955 from October 2023 to Jan 2024. There is no such case of occupational disease or hearing impairment
(iii)	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	<p>Being Complied</p> <ul style="list-style-type: none"> Personnel Protective respiratory devices/Masks 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 the Mine Vocational Training Rules, 1966. <p>Dust survey is being carried out regularly in mine and CHP area as per provisions of Coal Mines Regulations, 2017.</p>
(iv)	Implementation of the action plan on	Complied



	the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.	
(v)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 20th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.	Not applicable There is no habitation in the mining lease area.
(i) Corporate Environment Responsibility		
(i)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / violation of the Environmental / forest / wildlife norms / conditions.	Complied The company has laid down environmental policy duly approved under integrated management system for Amelia (North) Coal Mine.



	The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders.																			
(ii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization	<p>Complied Environmental Management cell has been established under the chairmanship of Sh. Rajneesh Gaur (Executive Joint President) and other members are as follows:-</p> <table border="1"> <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 Nitesh Kushwaha</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 Nitesh Kushwaha	Officer (Environment)
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3	Shri P. L. Birla	Add. GM (Civil)																		
4	Shri Sandeep Kr Sharma	Asst. Manager (Env)																		
5	Shri Nitesh Kushwaha	Officer (Environment)																		
(iii)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.	<p>Being Complied Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company has been prepared and duly approved by competent authority and submitted with EIA Report. A separate fund has been earmarked for environmental protection measures and is being maintained by finance and accounts department. Details of operational and maintenance expenditures are given below:-</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Expenditure (INR)</th> </tr> </thead> <tbody> <tr> <td>Oct 2023 to March 2024</td> <td>1.51 Crore</td> </tr> </tbody> </table>	Year	Expenditure (INR)	Oct 2023 to March 2024	1.51 Crore														
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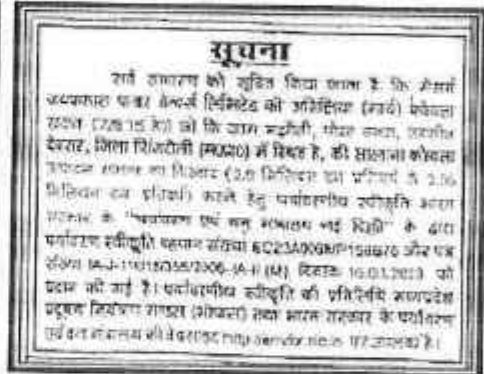
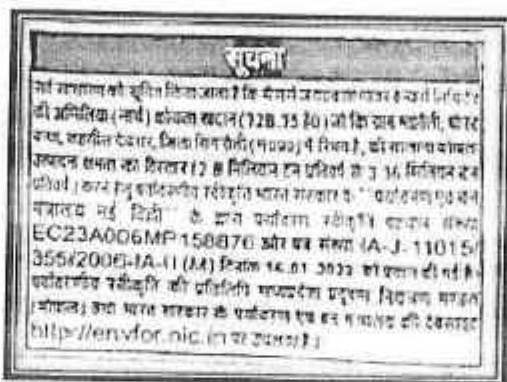


(iv)	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Being Complied Self environmental audit is being conduct annually and third party environmental audit has been carried out in the month of February, 2023..
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(j) Miscellaneous

(i) The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

Complied
Publically published in 02 local newspaper namely Navbharat and Dainik Jagran on dated 19/01/2023 regarding grant of Environment Clearance, copy of same is attached below :-



(ii) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

Complied
A copy of EC has been submitted to all concern local authorities and pollution control board, District collector Singrauli, SDM Office Singrauli, Gram Panchayat Majhauri on 18/1/2023 copy of same is attached.



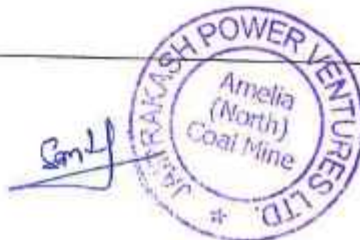
	<div data-bbox="891 165 1749 1086" data-label="Image"> </div>
<p>(iii) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and</p>	<p>Being Complied Six monthly Compliance report is being upload at company website along with six monthly monitoring reports.</p>



	update the same on half-yearly basis.	
(iv)	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Being Complied Regular monitoring data of PM10, SO2, NOx CO are being monitored. Data on PM10, SO2, NOx, CO are continuously displayed at project site main gate and the data is being upload on the website of the company along with six monthly EC Compliance report.
(v)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Being Complied Six monthly reports are being regularly submitting through E-mail to the Regional office of MoEF & CC, the respective Zonal office of CPCB and the SPCB, EC Compliance report is being upload at MoEF & CC website through dedicated portal on Parivesh.
(vi)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects whercin habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.	Not applicable There is no habitation in the mining lease area.
(vii)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the	Being complied The Environmental statement i.e. Form-V is being submitted regularly for each FY. Environmental Statement for FY 2022 – 23 has been submitted vide letter no. JPVL / Amelia / Mines / 2023-24 / 104 dated 8.09.2023.



	Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	
(viii)	The project authorities shall inform to the Regional Office of the MOEF&CC regarding commencement of mining operations.	Complied
(ix)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted & Agreed
(x)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted & Agreed Public hearing is not required because in the case of projects seeking expansion upto a capacity of 50%, MoEF&CC's office memorandum no. F. No. IA3-22/10/2022-IA.III [E 177258] dated 11.04.2022.
(xi)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.	Noted & Agreed
(xii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted & Agreed
(xiii)	The Ministry may revoke or suspend the clearance, if implementation of	Noted & Agreed



	any of the above conditions is not satisfactory.	
(xiv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted & Agreed
(xv)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Noted & Agreed
(xvi)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air(Prevention & Control of Pollution) Act,1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules. 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted & Agreed



5	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.	Noted & Agreed Public hearing is not required because in the case of projects seeking expansion upto a capacity of 50%, MoEF&CC's office memorandum no. F. No. IA3-22/10/2022-IA.III [E 177258] dated 11.04.2022.
6	The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted & Agreed
7	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted & Agreed
8	The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil)	Noted & Agreed

Semil



	No.114/2014 in the matter of 'Common Cause Vs Union of India & others.	
9	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.	Noted & Agreed There is no any illegal mining operation from starting of the mine operation to till date in Amelia (North) Coal Mine.
10	This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory Requirements.	Noted & Agreed
11	All other conditions stipulated in the Environment Clearance to the project under EIA Notification, 2006 vide MoEF&CC's vide file no. J-11015/355/2006-IA.II(M) dated 20.07.2007 and transferred to the M/s Jaiprakash Power Ventures Limited on 13.05.2015 shall be complied.	Noted & Agreed



क्षेत्रीय कार्यालय
म.प्र. प्रदूषणनियंत्रण बोर्ड
भकुआर, नौगढ़, जिलासिंगरौली (म.प्र.) - 486887
E-Mail: romppcb.sgrl@gmail.com

पत्र क्र. 55/भे.का./प्रतिबो/2023,

सिंगरौली, दिनांक: 13/10/2023

प्रति,
श्रीमान डायरेक्टर पर्यावरण (तकनीकी)
म० प्र० प्र०नि० बोर्ड, भोपाल, (म० प्र०)

विषय : Distance certificate between Singrauli Severely Polluted Area and
Boundary of Amelia North Coal Mine- Reg.

सन्दर्भ :

- 1) बोर्ड मुख्यालय भोपाल पत्र क्र० 2628 दिनांक 10/10/2023
- 2) सदस्य सचिव म० प्र० प्र०नि० बोर्ड मुख्यालय भोपाल पत्र क्र० 1332 दिनांक 15/07/2020

महोदय,

उपरोक्त विषयांतर्गत संदर्भित पत्र के तारतम्य में इस कार्यालय से प्रतिवेदन चाहा गया है जो कि
तिल्लानुसार है :-

- 1) मेसर्स जयप्रकाश पावर वेन्चर्स लिमिटेड, अमिलिया (नार्थ) कोल माइंस द्वारा 2.8 MTPA से 3.92 MTPA के विस्तार हेतु आवेदन वन एवं पर्यावरण मंत्रालय नई दिल्ली में किया गया है, जिसका आंशिक विस्तार 2.80 MTPA से 3.36 MTPA पर्यावरण स्वीकृति पत्र क्र० न० J-11015/355/2006-IA-II(M) dated 16.01.2023 को प्राप्त हुआ।
- 2) संदर्भित पत्र क्र० 2 में केंद्रीय प्रदूषण नियंत्रण बोर्ड, नई दिल्ली द्वारा 114 sq.km. क्षेत्र severely polluted area में चिन्हित किया गया जिसमें आने वाली खदानों कि सूची संलग्न है।
- 3) प्रोजेक्ट प्रोपोनेन्ट द्वारा जमा दस्तावेजों का अवलोकन कर गुगल अर्थ पर अमिलिया (नार्थ) बाउंड्री तथा SPA बाउंड्री को चिन्हित किया गया तथा गुगल अर्थ का प्रिंट संलग्न कर अवलोकनार्थ प्रस्तुत है। जिसके अनुसार दूरी 11.6 कि.मी. से अधिक अर्थात् 11.68 कि.मी. प्रदर्शित हो रही है। निरीक्षण प्रतिवेदन संलग्न कर आवश्यक कार्यवाही हेतु भेजा जा रहा है।

सलगन:-

- 1) गुगल अर्थ में CEPI एवं इकाई का छायाचित्र
- 2) Severely polluted area में चिन्हित खदानों कि सूची


क्षेत्रीय अधिकारी

म० प्र० प्र०नि० बोर्ड, सिंगरौली

CEPI Area Singrauli

Map Showing distance of Amilia Mines from CEPI Area

Legend

CEPI Area

Line

Line Path Polygon Circle 3D path 3D polygon

Measure the distance between two points on the ground

Map Length:	11.68	Meters
Ground Length:	11.69	
Heading:	96.96	degrees

Mouse Navigation

Save Clear



have compost plant of 70 ton capacity per day and 02 nos. polythene shredder/cutter machines.

2.2.4 Impact on surrounding area (outside the CEPI Area) on the water sources/drainage system of the area under consideration

The stretch of river Soni which falls outside the CEPI area is of 'A' quality, River Kachan falls under the CEPI area is of 'B' quality. River Kachan join to River Myar and ultimately goes to Rihand Reservoir.

Rihand Reservoir have its area about 556 sqkm, having water storage capacity of about 78,228 million cubic meters. Out of total area of the reservoir, only 30% portion falls in Madhya Pradesh and remaining lies in U.P. Reservoir is located just nearby NTPC Vindhyannagar about 4 - 5 km in South-East direction and it is major source of water for NTPC's power plants and whole of the CEPI area by and large lies in its catchment.

2.3 Details of Water Polluting Industries in the area/cluster

CEPI area Singrauli, having 114 Sqkm of land area is situated in west side of Singrauli. The industries are predominantly having thermal power plant and coal mines. Total no. of industries registered with MPPC Board is 13, out of which R17 category unit is 01 and other red category industries are 12. All 13 are water polluting industries. Total quantity of industrial effluent generated from this area is 170,60625 MLD.

Following are the industries located in the area

S.No.	Name & address of Industries / Unit	Category
	Medium/major	
1	NTPC, Vindhyaechal Super Thermal Power Station, Vindhya nagar, Singrauli, MP	R-17
2	Northern Coal Limited, Nighi, Singrauli, MP	Red
3	Northern Coal Limited, Amlohri area, Singrauli, MP	Red
4	Northern Coal Limited, Dudhichua area, Singrauli, MP	Red
5	Northern Coal Limited, Jayant Project, Singrauli, MP	Red
6	Northern Coal Limited, Jhangurda area, Singrauli, MP	Red
7	Northern Coal Limited Kaadra, Singrauli, MP	Red
8	Northern Coal Limited Hira, Singrauli, MP	Red
9	Central Workshop, P.O. Jayant, Singrauli, MP	Red
10	DDI Explosives Ltd., P.O. Jayant, Singrauli, MP	Red

11	Indian Oil Corporation-IBP Bulk Explosive Div., P.O.Jayant, Singrauli, MP	Red
12	Indian Explosives Pvt. Ltd. (Orissa) Bulk Support Plant, P.O.Jayant, Singrauli, MP	Red
13	Indian Oil Corporation Ltd - Oil Depot, P.O.Jayant, Singrauli, MP	Red

2.4 Effluent Disposal Method- Recipient water bodies etc.

Discharge of treated trade effluent is not permitted into the water bodies. All the industries are consented to maintain zero discharge out side the premises and apply treated trade effluent with specific standards on land for agriculture/ gardening purpose, dust suppression, ash disposal etc. Stringent standards of 30 mg/ltr BOD for the treated effluent applied for gardening is imposed in the consent granted by the Board. Sewage generated in the industrial townships is also treated and utilized.

2.5 Quantification of waste water pollution load and relative contribution by different sources viz. industrial/domestic

The major source of water pollution is untreated sewage disposed from municipal corporation Singrauli area and adjacent pockets of habitations. About 23 MLD of sewage generated from the municipal corporation area, ultimately flows through 10 nos. seasonal nallas and joins the Rihand Reservoir.

2.6 Action Plan for compliance and control of pollution

2.6.1 Existing infrastructure facilities – water quality monitoring network, ETPs, CETP, Sewage Treatment Plant of industry (STPs), surface drainage system, effluent conveyance channels/outfalls, etc.

Large and medium scaling industries are having own treatment facility. Most of these industries have utilizing treated effluent for reuse in process, water sprinkling and other by maintaining zero discharge practices.

2.6.2 Pollution control measures installed by Industries

Details of water polluting units and control measures for industrial effluent are as follows:-

S.No.	Name of Industries	Production capacity	Effluent quantity	ETP status	Effluent management
01	VSTPP, NTPC vudhyanagar	4760 MW	6-8 MLD	ETP constructed 88.8 MLD	Treated effluent used for water spraying in CHP area & plant area
02	Andhari project NCL Singrauli	COAL-10 MTPA	10-20 MLD	ETP constructed 51 MLD	Treated effluent used for dust suppression
03	Nigahi project NCL Singrauli	COAL-15.5 MTPA	6-10 MLD	ETP constructed 14.5 MLD	Treated effluent used for dust suppression

AMELIA NORTH COAL MINE

A UNIT OF JAIPRAKASH POWER VENTURES LIMITED
ISO CERTIFIED : 9001: 2015, 14001: 2015 & 45001: 2018



Letter No: JPVL/Amelia (N)/2023-24 / 82

JAIPRAKASH
POWER VENTURES LIMITED

Date: 17.08.2023
18

To,
● The Kshetra Sanchalak
Sanjay Tiger Reserve, Sidhi (M.P.)

Sub: - Status of Compliance of Wildlife Conservation Plan for Amelia (North) Coal Mine

- Ref: 1) PCCF कमाक/व.प्रा/मा.वि./अमिलिया/7433 भोपाल, दिनांक 12/10/2022
2) JPVL/Amelia (N)/Forest/2022-23/01 Dated 12.10.2022
3) Our letter dated 01.09.2022 to PCCF & Chief Wild life Warden
4) Our letter dated 26.05.2016 to PCCF & Chief Wild life Warden

Sir,

This is in reference to the letters mentioned above. We are currently in the process of seeking **Environmental Clearance from the Ministry of Environment, Forest and Climate Change (MoEF & CC)** for expansion of peak rated capacity of Amelia (North) Coal Mine from 3.36 MTPA to 3.92 MTPA. As per the Regional Officer, MoEF & CC Bhopal we have to submit the current status of implementation of the wild life conservation plan in certified compliance report.

In view of the above, it is once again requested to kindly apprise us the present position of the implementation of wildlife conservation plan for Amelia (North) Coal Mine.

Thanking You

For Jaiprakash Power Ventures Ltd

(Authorized Signatory)

Cc:-

- 1) PCCF & Chief Wildlife Warden BDA Building, 3rd Floor, M.P. Nagar Zone, Hoshangabad Road, Bhopal
- 2) Additional PCCF (C), E-5, Kendriya Paryavaran Bhawan, F-5, Arera Colony, Link Road Ravishankar Nagar, Bhopal - 462016
- 3) Chief Conservator of Forest, Office Forest Circle Rewam Kendriya Vidhyala Marg, Jayantikunj, Civil Lines Rewa, Distt.- Rewa (M.P.) - 486001
- 4) Divisional Forest Officer, Office Forest Division - Singrauli, Distt. - Singrauli (M.P.)



Site : Amelia(North)CoalMine,Vill.Majhauri,P.O.-Bandha,Tehsil-Deosai, Distt. - Singrauli, Madhya Pradesh, India - 486886
Ph.: +91 9685781707-09, E-mail:amelianorth.jpvl@jalindia.co.in
Corp.Office : 'JA House', 63 Basant Lok, Vasant Vihar, New Delhi-110057 (India)
Ph.: +91(11)26141540,26147411 Fax: +91(11)26145389,26143591
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.jaiprakashpower.com Email: info@jalindia.co.in

JAIPPF

JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 03.10.2023

Sl No	Place/Area	Minimum Standards of illumination (in lux)		Available illumination (in lux)		Remarks
		H	V	H	V	
Mine						
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	24	33	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	23	31	
3	Area Where drilling rig works	-	25	-	36	
4	Area where drill holes exist	15	-	25	-	
5	OB Dump A	15	15	70	34	
6	OB Dump B	15	15	52	33	
7	Coal Face Pit 1	15	25	45	30	
8	Coal Face Pit 2	15	25	33	28	
9	Operator cabins of machines or mechanism	50	-	59	-	
10	Haul roads for trucks and dumpers	10	-	19	-	
11	Pumping Station	40	-	44	-	
12	First Aid station	50	-	70	-	
13	Rest Shelter	30	-	52	-	
14	Workshop	100	50	168	81	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	23	-	
Coal Handling Plant						
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	48	-	
20	SILLO	40	-	61	-	
21	Along Conveyor	20	-	27	-	
22	Transfer points and drive /tail end area	40	-	49	-	
23	Electrical Substation	100	50	151	83	

ABenady
Supervisor

Aditya
Engineer

Murad
04.10.2023
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 10.10.2023

Sl No	Place/Area	Minimum Standards of illumination (in lux)		Available illumination (in lux)		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	23	33	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	26	29	
3	Area Where drilling rig works	-	25	-	39	
4	Area where drill holes exist	15	-	27	-	
5	OB Dump A	15	15	69	38	
6	OB Dump B	15	15	48	31	
7	Coal Face Pit 1	15	25	45	29	
8	Coal Face Pit 2	15	25	31	28	
9	Operator cabins of machines or mechanism	50	-	67	-	
10	Haul roads for trucks and dumpers	10	-	22	-	
11	Pumping Station	40	-	51	-	
12	First Aid station	50	-	71	-	
13	Rest Shelter	30	-	60	-	
14	Workshop	100	50	168	81	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	23	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	63	-	
18	Apron feeder	40	-	72	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILO	40	-	55	-	
21	Along Conveyor	20	-	23	-	
22	Transfer points and drive /tail end area	40	-	46	-	
23	Electrical Substation	100	50	149	80	

[Signature]
Supervisor

[Signature]
Engineer

[Signature]
11.10.2023
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 17.10.2023

SI No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	24	29	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	23	29	
3	Area Where drilling rig works	-	25	-	31	
4	Area where drill holes exist	15	-	27	-	
5	OB Dump A	15	15	66	36	
6	OB Dump B	15	15	52	29	
7	Coal Face Pit 1	15	25	45	31	
8	Coal Face Pit 2	15	25	35	31	
9	Operator cabins of machines or mechanism	50	-	60	-	
10	Haul roads for trucks and dumpers	10	-	20	-	
11	Pumping Station	40	-	46	-	
12	First Aid station	50	-	68	-	
13	Rest Shelter	30	-	53	-	
14	Workshop	100	50	168	81	
15	Parking Yard	50	-	60	-	
16	Mine office and workshop Area	10	-	21	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	67	-	
18	Apron feeder	40	-	74	-	
19	Bucket wheel stacker	40	-	50	-	
20	SILLO	40	-	53	-	
21	Along Conveyor	20	-	25	-	
22	Transfer points and drive /tail end area	40	-	43	-	
23	Electrical Substation	100	50	149	78	

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Supervisor

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Engineer

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18.10.2023
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 24.10.2023

Sl No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	24	33	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	23	31	
3	Area Where drilling rig works	-	25	-	36	
4	Area where drill holes exist	15	-	25	-	
5	OB Dump A	15	15	70	34	
6	OB Dump B	15	15	52	33	
7	Coal Face Pit 1	15	25	45	30	
8	Coal Face Pit 2	15	25	33	28	
9	Operator cabins of machines or mechanism	50	-	59	-	
10	Haul roads for trucks and dumpers	10	-	19	-	
11	Pumping Station	40	-	44	-	
12	First Aid station	50	-	70	-	
13	Rest Shelter	30	-	52	-	
14	Workshop	100	50	168	81	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	23	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	48	-	
20	SILO	40	-	61	-	
21	Along Conveyor	20	-	27	-	
22	Transfer points and drive /tail end area	40	-	49	-	
23	Electrical Substation	100	50	151	83	

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Supervisor

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Engineer

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25.10.2023
Manager



JAIPRAKASH POWER VENTURES LTD

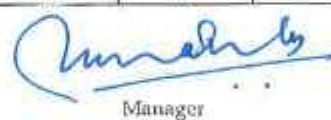
AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 31.10.2023

Sl No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	24	28	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	22	29	
3	Area Where drilling rig works	-	25	-	29	
4	Area where drill holes exist	15	-	26	-	
5	OB Dump A	15	15	69	36	
6	OB Dump B	15	15	47	28	
7	Coal Face Pit 1	15	25	46	29	
8	Coal Face Pit 2	15	25	31	28	
9	Operator cabins of machines or mechanism	50	-	63	-	
10	Haul roads for trucks and dumpers	10	-	17	-	
11	Pumping Station	40	-	47	-	
12	First Aid station	50	-	68	-	
13	Rest Shelter	30	-	49	-	
14	Workshop	100	50	167	78	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	21	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	75	-	
19	Bucket wheel stacker	40	-	57	-	
20	SILLO	40	-	53	-	
21	Along Conveyor	20	-	21	-	
22	Transfer points and drive /tail end area	40	-	43	-	
23	Electrical Substation	100	50	119	77	


Supervisor


Engineer


Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 07.11.2023

Sl No	Place/Area	Minimum Standards of illumination (in lux)		Available illumination (in lux)		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	28	37	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	26	33	
3	Area Where drilling rig works	-	25	-	36	
4	Area where drill holes exist	15	-	29	-	
5	OB Dump A	15	15	74	34	
6	OB Dump B	15	15	51	36	
7	Coal Face Pit 1	15	25	44	37	
8	Coal Face Pit 2	15	25	36	32	
9	Operator cabins of machines or mechanism	50	-	54	-	
10	Haul roads for trucks and dumpers	10	-	23	-	
11	Pumping Station	40	-	51	-	
12	First Aid station	50	-	72	-	
13	Rest Shelter	30	-	58	-	
14	Workshop	100	50	170	83	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	29	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILLO	40	-	61	-	
21	Along Conveyor	20	-	30	-	
22	Transfer points and drive /tail end area	40	-	48	-	
23	Electrical Substation	100	50	155	86	

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Supervisor

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Engineer

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Manager
07.11.2023



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 14.11.2023

Sl No	Place/Area	Minimum Standards of illumination (in lux)		Available illumination (in lux)		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	29	36	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	24	33	
3	Area Where drilling rig works	-	25	-	36	
4	Area where drill holes exist	15	-	31	-	
5	OB Dump A	15	15	78	36	
6	OB Dump B	15	15	51	34	
7	Coal Face Pit 1	15	25	47	32	
8	Coal Face Pit 2	15	25	41	37	
9	Operator cabins of machines or mechanism	50	-	56	-	
10	Haul roads for trucks and dumpers	10	-	26	-	
11	Pumping Station	40	-	49	-	
12	First Aid station	50	-	73	-	
13	Rest Shelter	30	-	65	-	
14	Workshop	100	50	169	87	
15	Parking Yard	50	-	59	-	
16	Mine office and workshop Area	10	-	33	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	64	-	
18	Apron feeder	40	-	70	-	
19	Bucket wheel stacker	40	-	55	-	
20	SILO	40	-	59	-	
21	Along Conveyor	20	-	31	-	
22	Transfer points and drive /tail end area	40	-	50	-	
23	Electrical Substation	100	50	150	86	

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Supervisor

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Engineer

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15.11.2023
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 21.11.2023

SI No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	31	39	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	27	36	
3	Area Where drilling rig works	-	25	-	40	
4	Area where drill holes exist	15	-	31	-	
5	OB Dump A	15	15	75	34	
6	OB Dump B	15	15	50	35	
7	Coal Face Pit 1	15	25	45	37	
8	Coal Face Pit 2	15	25	32	36	
9	Operator cabins of machines or mechanism	50	-	54	-	
10	Haul roads for trucks and dumpers	10	-	28	-	
11	Pumping Station	40	-	51	-	
12	First Aid station	50	-	72	-	
13	Rest Shelter	30	-	58	-	
14	Workshop	100	50	170	83	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	29	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILO	40	-	61	-	
21	Along Conveyor	20	-	30	-	
22	Transfer points and drive /tail end area	40	-	48	-	
23	Electrical Substation	100	50	149	82	

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Supervisor

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Engineer

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Manager

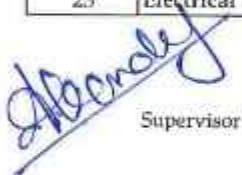


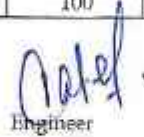
JAIPRAKASH POWER VENTURES LTD

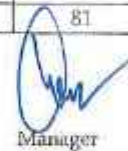
AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 28.11.2023

Sl No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	28	37	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	26	33	
3	Area Where drilling rig works	-	25	-	36	
4	Area where drill holes exist	15	-	29	-	
5	OB Dump A	15	15	74	34	
6	OB Dump B	15	15	51	36	
7	Coal Face Pit 1	15	25	44	37	
8	Coal Face Pit 2	15	25	36	32	
9	Operator cabins of machines or mechanism	50	-	54	-	
10	Haul roads for trucks and dumpers	10	-	23	-	
11	Pumping Station	40	-	51	-	
12	First Aid station	50	-	72	-	
13	Rest Shelter	30	-	58	-	
14	Workshop	100	50	170	83	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	29	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILLO	40	-	61	-	
21	Along Conveyor	20	-	30	-	
22	Transfer points and drive /tail end area	40	-	48	-	
23	Electrical Substation	100	50	149	81	


Supervisor


Engineer


Manager




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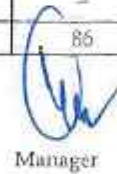
AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 05.12.2023

SI No	Place/Area	Minimum Standards of illumination (in lux)		Available illumination (in lux)		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	31	37	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	28	33	
3	Area Where drilling rig works	-	25	-	40	
4	Area where drill holes exist	15	-	33	-	
5	OB Dump A	15	15	75	36	
6	OB Dump B	15	15	51	38	
7	Coal Face Pit 1	15	25	49	36	
8	Coal Face Pit 2	15	25	43	34	
9	Operator cabins of machines or mechanism	50	-	54	-	
10	Haul roads for trucks and dumpers	10	-	27	-	
11	Pumping Station	40	-	55	-	
12	First Aid station	50	-	70	-	
13	Rest Shelter	30	-	58	-	
14	Workshop	100	50	170	83	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	29	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILO	40	-	61	-	
21	Along Conveyor	20	-	30	-	
22	Transfer points and drive /tail end area	40	-	48	-	
23	Electrical Substation	100	50	155	86	


Supervisor


Engineer


Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 12.12.2023

Sl No	Place/Area	Minimum Standards of illumination (in lux)		Available illumination (in lux)		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	32	37	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	30	33	
3	Area Where drilling rig works	-	25	-	39	
4	Area where drill holes exist	15	-	34	-	
5	OB Dump A	15	15	75	36	
6	OB Dump B	15	15	51	38	
7	Coal Face Pit 1	15	25	49	36	
8	Coal Face Pit 2	15	25	43	34	
9	Operator cabins of machines or mechanism	50	-	54	-	
10	Haul roads for trucks and dumpers	10	-	27	-	
11	Pumping Station	40	-	55	-	
12	First Aid station	50	-	70	-	
13	Rest Shelter	30	-	58	-	
14	Workshop	100	50	171	81	
15	Parking Yard	50	-	63	-	
16	Mine office and workshop Area	10	-	31	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	67	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILO	40	-	61	-	
21	Along Conveyor	20	-	29	-	
22	Transfer points and drive /tail end area	40	-	49	-	
23	Electrical Substation	100	50	151	82	

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Supervisor

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Engineer

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13.12.2023
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 19.12.2023

Sl No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	31	37	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	28	33	
3	Area Where drilling rig works	-	25	-	41	
4	Area where drill holes exist	15	-	33	-	
5	OB Dump A	15	15	75	36	
6	OB Dump B	15	15	51	38	
7	Coal Face Pit 1	15	25	49	36	
8	Coal Face Pit 2	15	25	43	34	
9	Operator cabins of machines or mechanism	50	-	54	-	
10	Haul roads for trucks and dumpers	10	-	27	-	
11	Pumping Station	40	-	55	-	
12	First Aid station	50	-	70	-	
13	Rest Shelter	30	-	58	-	
14	Workshop	100	50	170	83	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	29	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILO	40	-	61	-	
21	Along Conveyor	20	-	30	-	
22	Transfer points and drive /tail end area	40	-	48	-	
23	Electrical Substation	100	50	155	86	

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Supervisor

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Engineer

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Manager 19.12.2023



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 26.12.2023

Sl No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	31	39	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	31	34	
3	Area Where drilling rig works	-	25	-	39	
4	Area where drill holes exist	15	-	35	-	
5	OB Dump A	15	15	76	36	
6	OB Dump B	15	15	49	39	
7	Coal Face Pit 1	15	25	51	37	
8	Coal Face Pit 2	15	25	44	37	
9	Operator cabins of machines or mechanism	50	-	53	-	
10	Haul roads for trucks and dumpers	10	-	33	-	
11	Pumping Station	40	-	56	-	
12	First Aid station	50	-	71	-	
13	Rest Shelter	30	-	57	-	
14	Workshop	100	50	169	81	
15	Parking Yard	50	-	63	-	
16	Mine office and workshop Area	10	-	32	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	64	-	
18	Apron feeder	40	-	70	-	
19	Bucket wheel stacker	40	-	51	-	
20	SILLO	40	-	59	-	
21	Along Conveyor	20	-	29	-	
22	Transfer points and drive /tail end area	40	-	53	-	
23	Electrical Substation	100	50	161	84	

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Supervisor

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Engineer

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27.12.2023
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 02.01.2024

Sl No	Place/Area	Minimum Standards of illumination (in lux)		Available illumination (in lux)		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	31	37	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	28	33	
3	Area Where drilling rig works	-	25	-	40	
4	Area where drill holes exist	15	-	33	-	
5	OB Dump A	15	15	75	36	
6	OB Dump B	15	15	51	38	
7	Coal Face Pit 1	15	25	49	36	
8	Coal Face Pit 2	15	25	43	34	
9	Operator cabins of machines or mecharism	50	-	54	-	
10	Haul roads for trucks and dumpers	10	-	27	-	
11	Pumping Station	40	-	55	-	
12	First Aid station	50	-	70	-	
13	Rest Shelter	30	-	58	-	
14	Workshop	100	50	170	83	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	29	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILLO	40	-	61	-	
21	Along Conveyor	20	-	30	-	
22	Transfer points and drive /tail end area	40	-	48	-	
23	Electrical Substation	100	50	155	86	

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Supervisor

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Engineer

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02-01-2024
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 09.01.2024

Sl No	Place/Area	Minimum Standards of illumination (in lux)		Available illumination (in lux)		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	32	37	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	30	33	
3	Area Where drilling rig works	-	25	-	39	
4	Area where drill holes exist	15	-	34	-	
5	OB Dump A	15	15	75	36	
6	OB Dump B	15	15	51	38	
7	Coal Face Pit 1	15	25	49	36	
8	Coal Face Pit 2	15	25	43	34	
9	Operator cabins of machines or mechanism	50	-	54	-	
10	Haul roads for trucks and dumpers	10	-	27	-	
11	Pumping Station	40	-	55	-	
12	First Aid station	50	-	70	-	
13	Rest Shelter	30	-	58	-	
14	Workshop	100	50	171	81	
15	Parking Yard	50	-	63	-	
16	Mine office and workshop Area	10	-	31	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	67	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILO	40	-	61	-	
21	Along Conveyor	20	-	29	-	
22	Transfer points and drive /tail end area	40	-	49	-	
23	Electrical Substation	100	50	151	82	

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Supervisor

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Engineer

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09.01.2024
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 16.01.2024

Sl No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	31	37	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	28	33	
3	Area Where drilling rig works	-	25	-	41	
4	Area where drill holes exist	15	-	33	-	
5	OB Dump A	15	15	75	36	
6	OB Dump B	15	15	51	38	
7	Coal Face Pit 1	15	25	49	36	
8	Coal Face Pit 2	15	25	43	34	
9	Operator cabins of machines or mechanism	50	-	54	-	
10	Haul roads for trucks and dumpers	10	-	27	-	
11	Pumping Station	40	-	55	-	
12	First Aid station	50	-	70	-	
13	Rest Shelter	30	-	58	-	
14	Workshop	100	50	170	83	
15	Parking Yard	50	-	61	-	
16	Mine office and workshop Area	10	-	29	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	66	-	
18	Apron feeder	40	-	69	-	
19	Bucket wheel stacker	40	-	53	-	
20	SILO	40	-	61	-	
21	Along Conveyor	20	-	30	-	
22	Transfer points and drive /tail end area	40	-	48	-	
23	Electrical Substation	100	50	155	86	

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Supervisor

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Engineer

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17.01.2024
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 23.01.2024

Sl No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	31	39	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	31	34	
3	Area Where drilling rig works	-	25	-	39	
4	Area where drill holes exist	15	-	35	-	
5	OB Dump A	15	15	76	36	
6	OB Dump B	15	15	49	39	
7	Coal Face Pit 1	15	25	51	37	
8	Coal Face Pit 2	15	25	44	37	
9	Operator cabins of machines or mechanism	50	-	53	-	
10	Haul roads for trucks and dumpers	10	-	33	-	
11	Pumping Station	40	-	56	-	
12	First Aid station	50	-	71	-	
13	Rest Shelter	30	-	57	-	
14	Workshop	100	50	169	81	
15	Parking Yard	50	-	63	-	
16	Mine office and workshop Area	10	-	32	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	64	-	
18	Apron feeder	40	-	70	-	
19	Bucket wheel stacker	40	-	51	-	
20	SILLO	40	-	59	-	
21	Along Conveyor	20	-	29	-	
22	Transfer points and drive /tail end area	40	-	53	-	
23	Electrical Substation	100	50	161	84	

[Signature]
Supervisor

[Signature]
Engineer

[Signature]
24.01.2024
Manager



JAIPRAKASH POWER VENTURES LTD

AMELIA (NORTH COAL MINE)

ILLUMINATION SURVEY ON 30.01.2024

SI No	Place/Area	Minimum Standards of		Available illumination		Remarks
		H	V	H	V	
	Mine					
1	Work place of Heavy Machinery /OB Face Pit -1	15	25	31	39	
2	Work place of Heavy Machinery /OB Face Pit -2	15	25	31	34	
3	Area Where drilling rig works	-	25	-	39	
4	Area where drill holes exist	15	-	35	-	
5	OB Dump A	15	15	76	36	
6	OB Dump B	15	15	49	39	
7	Coal Face Pit 1	15	25	51	37	
8	Coal Face Pit 2	15	25	44	37	
9	Operator cabins of machines or mechanism	50	-	53	-	
10	Haul roads for trucks and dumpers	10	-	33	-	
11	Pumping Station	40	-	56	-	
12	First Aid station	50	-	71	-	
13	Rest Shelter	30	-	57	-	
14	Workshop	100	50	169	81	
15	Parking Yard	50	-	63	-	
16	Mine office and workshop Area	10	-	32	-	
	Coal Handling Plant					
17	Feeder Breaker	40	-	64	-	
18	Apron feeder	40	-	70	-	
19	Bucket wheel stacker	40	-	51	-	
20	SILLO	40	-	59	-	
21	Along Conveyor	20	-	29	-	
22	Transfer points and drive / tail end area	40	-	53	-	
23	Electrical Substation	100	50	161	84	

[Signature]
Supervisor

[Signature]
Engineer

[Signature]
31.01.2024
Manager

