



A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018

regarding

Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) in an area of 347.46 ha in Tehsil-Kamptee, District-Nagpur in Maharashtra State

for

**the period from 01/04/2023 TO 30/09/2023
submitted in fulfilment
of the compliance of EC Condition**


**Submitted by:
Office of the Sub Area Manager,
Bhanegaon Singhori Sub Area,
Post- Bina Bhanegaon, Tehsil- Kamptee,
District- Nagpur, Maharashtra State, India
M/s. Western Coalfields Limited, Nagpur**

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

S.N.	Statutory compliance	Compliance/ Status
4	Specific Compliance	
i	Standard Operating Procedures are required to be prepared and vetted by the company headquarters for adoption of environmental measures in course of various mining activities right from drilling, blasting to coal dispatch be submitted to EAC for monitoring.	<p>Complied.</p> <p>As instructed, Standard Operating Procedures concerning for adoption of environmental measures in course of various mining activities right from drilling, blasting to coal dispatch are prepared, vetted and communicated by Coal India Limited, Kolkata i.e. Company headquarters for its implementation with accountability. A copy of the same along with Minutes of meeting taken by Area Authority is attached for ready reference.</p> <p>(Annex-49_SOP for dust control in coal mining operations)</p> <p>(Annex-49.A_Minutes of meeting regarding implementation of SOP in coal mining operations)</p>
ii	Transportation of coal should be carried out by covered trucks. Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers	<p>Complied.</p> <p>At present, due to commissioning of the closed pipe conveyor belt system in the said mine, major part of the coal is being transported through the conveyor belt system to the 2 nos. of TPSS named Khaparkheda & Koradi TPSS of MAHAGENCO.</p> <p>(Annex-13_Geotagged photos of pipe conveyor belt system)</p> <p>Further, balance part of coal which is</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>transported through trucks following Control measures are in place to mitigate air pollution due to mining activities. The details of existing air pollution control measures are placed below:</p> <ul style="list-style-type: none"> a) All Coal Carrying trucks are being properly covered by Tarpaulin to minimize the fugitive dust emission (arise due to coal spillage) and trucks are being monitored through via CCTVs cameras & GPS system for the compliance. b) Three nos. of the mobile water tanker having a capacity of 12KL, 12 KL and 06 KL are deployed for the water spraying regarding effective dust suppression on coal transportation roads, haul road & near coal stock yard. c) 18 nos. of Fixed Water Sprinklers have been installed and are in operation near to coal stock yard to the weigh bridge to suppress the fugitive dust. d) To minimize the dust generation during coal transportation the roads has been black topped. e) Two nos. of mist canon trolley mounted system type for dust suppression has deployed on mobile crusher. Road Sweeping machine is going to be deployed for maintaining Cleaning & brooming of the CTR at the project by Nov. 2023. Work order copy attached <p>(Annex-50_Work Order of Brooming Machine)</p>
--	--	---



A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

iii	The project proponent shall facilitate in land acquisition for construction of pipe conveyor system by MAHAGENCO from the coal mine to its nearby TPPS to be completed in 24 months.	<p>Complied.</p> <p>At present, commissioning of the closed pipe conveyor belt system in the said mine has been ensured and coal is being transported with a designed capacity of 250 MT per hour with 14 hours daily operation through the conveyor belt system to the 2 nos. of TPSS named Khaparkheda & Koradi TPSs of MAHAGENCO.</p> <p>(Annex-13_Geotagged photos of pipe conveyor belt system)</p>
iv	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	<p>Complied.</p> <p>Personal working in dusty areas is provided with dust masks. Periodical health check-up of mine workers are carried out once in 5 years with the purpose of detecting occupational diseases & hearing impairment.</p> <p>Every worker in the mine is examined in 5 years- up to the age of 45; the workers who are above 45 years are subjected to periodic medical examination at three years interval at Area Hospitals such as J N Hospital and Walni Hospital having 50*2 total 100 nos. of bedding capacity.</p> <p>At present, since opening of the mine i.e. Year 2015-16 onwards, no such occupational diseases and or hearing impairment has been recorded.</p> <p>A copy of the year wise PME/IME details is attached for ready reference.</p> <p>(Annex-26_IME&PME Report)</p>
v	Controlled blasting techniques should	Complied.

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	be adopted to control ground vibration and fly rocks.	Controlled blasting techniques with use of delay detonators are practiced during daytime to control ground vibration and to arrest the fly rocks. Controlled Blasting Technique as permitted by DGMS is being adopted. Undertaking is attached. (Annex-25_Undertaking)
Vi	Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers.	Complied. To eliminate the air pollution due to coal transportation by road, pipe conveyor has been commissioned for transportation of coal from mine to two nos. of thermal power plants of MAHAGENCO. At present, due to installation of the closed pipe conveyor belt system in the said mine, major part of coal is being transported through the conveyor belt system @250 MT per hour with operational capacity of 14 hours to the 2 nos. of TPSs named Khaparkheda & Koradi TPSs of the MAHAGENCO, which is contributing in the reduction of the fugitive dust generation during mineral transportation, saving of the fossil fuel used during the coal transportation directly effecting the environment and national economy. Indirectly, it is also reducing the stress on fossil fuel (diesel), reduction in disease caused due to the fugitive emission, road accidents/ traffic and carbon emission. (Annex-13_Geotagged photos of pipe conveyor belt system) Balance coal is transported through a blacked topped coal transportation road

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>as per the route plan proposed in the approved Mining plan. All the coal carrying trucks are properly covered by tarpaulin to reduce fugitive dust emission.</p> <p>(Annex-12_Geotagged photos_Tarpaulin covered trucks)</p> <p>Further, coal is transported as per the provisions and route envisaged in the approved Mining Plan or Environment Management Plan.</p> <p>The following air pollution control measures are in place to mitigate air pollution due to mining activities; coal transportation and allied activities are placed below:</p> <ul style="list-style-type: none"> • 18 nos. of Fixed Water Sprinklers have been installed and are in operation near to coal stock yard to the weigh bridge to suppress the fugitive dust. • Two nos. of mist canon trolley mounted system type for dust suppression has deployed on mobile crusher. • Three nos. (3) of the mobile water tanker having a capacity of 12 kl, 12 kl and 06 kl are deployed for the water spraying regarding effective dust suppression on coal transportation roads, haul road & near coal stock yard. • All Coal Carrying trucks are being properly covered by Tarpaulin to minimize the fugitive dust emission (arise due to coal spillage) and trucks are being monitored through via CCTVs cameras & GPS system for the compliance. • To minimize the dust generation
--	--	---



A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>during coal transportation the roads have been black topped.</p> <ul style="list-style-type: none"> • Road Sweeping machine is going to be deployed for routine brooming of the coal transportation road. • The mine is operated under HoE (Hire of Equipment. All the operating vehicles have valid PUC certificates. HEMMs are serviced, washed and other maintenance works are carried out at authorized service centers outside the project area. That limits the use of ETP at the Project Site. • To reduce electricity consumption LED lights have been installed in all offices & Chankapur Colony. • To reduce air pollution in colony area, (12 km away from project), all workers have facilitated with LPG cylinders by management. No Coal is issued to workers for domestic purpose. • Four number of AAQ monitoring stations have been established for regular monitoring (TPM, PM10, PM2.5, SO2, NOX) of the ambient air quality and water also. The monitoring is done by Central Mine Planning and Design Institute, Regional Institute no-IV, Nagpur-A NABL Accredited Lab on a fortnight basis. And reports are regularly being submitted to MOEF&CC, New Delhi & Regional Office also. <p>Till date 25,600 nos. of saplings planted within the ML area covering an area of 10 ha (approx.). Plantation program is carried out through State expert agencies with 4 years maintenance after year of plantation.</p>
--	--	---

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

vii	Thick green belt of 30-45 m width to be provided to mitigate/check the dust pollution. A 3-tier avenue plantation should also be developed along vacant areas, storage yards, loading/transfer points, and also along internal roads/main approach roads.	<p>Compliance in Progress.</p> <p>Existing:</p> <p>As the said mine has started in July 2015 and 25,600 nos. of plantation of the native species has been planted in F.Y. 2017-18 near to mine embankment & OB dump.</p> <p>Proposed: As the coal transportation road has been blacktopped to minimize fugitive emission during transportation and it is planned in FY 2024-25 to develop a 3- tier avenue plantation along the coal transportation road of the mine to mitigate/check the dust pollution and also to whenever possible such as vacant areas, storage yards, loading / transfer points, and also along internal roads/main approach roads.</p> <p>(Annex-6_Plantation on mine embankment)</p>
4 a.	Mining	
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>Complied.</p> <p>Mining operations are being carried out and continue to be carried out as per provision of Mine Act, 1952 and subordinate legislations made there-under as applicable. Till date, no deviation has been done during coal mining operations and executed as per DGMS guidelines. Copy of the DGMS permission attached.</p> <p>(Annex-1_Undertaking)</p>
ii	No change in the mining method i.e.,	Complied.

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	OC to UG, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest, and Climate Change (MOEF&CC).	At present, there is no change in the mining method, calendar programme and scope of work and same will be done (if required in future) only after obtaining prior approval from MOEF&CC or respective Ministry or Board. (Annex-2_Undertaking)
iii	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and relevant circulars issued by Directorate General Mines Safety (DGMS).	Complied. Mining operations are being carried out as per mining plan by abiding all the mining rules and DGMS guidelines issued time to time and will continue to be carried out accordingly. (Annex-3_Undertaking).
iv	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognitions of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.	Not applicable. At present, no forest land exists within the mining lease area of this project; hence this condition is not applicable.
b)	Land reclamation and water conservation	
i	Digital survey of the entire lease area/core zone 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 shall be submitted to Ministry of Environment, Forest and Climate Change (RO).	Complied. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey is carried out once in three years by Central Mine Planning and Design Institute, Ranchi (CMPDI). The latest survey report is attached.

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>(Annex-4_Satellite Remote Sensing Survey Report).</p> <p>The reports are submitted to Regional Office of Ministry of Environment, Forest and Climate Change and the same are uploaded onto the company's website link- http://www.westerncoal.in/index1.php/StaticPage/155</p> <p>(Annex-5_EC compliance uploaded on Company Website)</p>
ii	<p>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 implemented by project proponent. The surface drainage plan and/or any other 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.</p>	<p>Complied.</p> <p>As per the approved mining plan of the project, there are no surface water bodies like river/pond/lake in the project area and also there is no diversion of natural water courses. Further, as per statute, the mining is being carried out at a safe distance of 50-meter from (the cutting edge) nallah/ river (Pench and Kanhan river) flowing within the lease boundary.</p> <p>In addition to this mine embankment has been constructed having dimensions (3430 m length, 73.13 mt. width & 10.24 mtrs height) has been constructed and also proposed for 100*30*6 m along the Kanhan river and established after 25,000 nos. of plantation in F.Y. 2017-18 by Madhya Pradesh Rajya Van Vikas Nigam Ltd along with maintenance for coming 04 years Name of species planted during are Ganga Imli, Amla, Neem, Karang, Pipal,kachnar, Acasia, Sisoo, peltform, Raintree, Safedsiras, Gulmohar, Casia, Saptarni,etc. Photos for Plantation on</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		the mine embankment is attached. (Annex-6_Plantation on mine embankment)
iii	Final mine void depth should be as per the approved Mine Closure Plan, and in case it exceeds more than 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick alive topsoil. Post mining land be rendered usable for agriculture/forestry purposes and shall be handed over to the respective state government as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27 th August,2009 and subsequent amendments.	<p>PP is consented with the condition.</p> <p>The mine started its operation in FY 2015-16 and at present is in its 8th year of operation. The progress of mining activities is being carried out as per an approved mining plan. The Mine Closure Plan is an integral part of the approved Mining Plan. The post mining land use will be as per approved reports. As per the approved mining plan, mine closure plan and Addendum EIA/EMP, total final mine void would be 70.15 ha with depth of 155 m against the total quarry area is 88.15 ha. Total Backfilling quarry area is 18.00 ha. Further, mine void of 70.15 Ha with depth of 155 m proposed to be converted into water body for the benefit of local populace and will be complied with due course of time as mine is newly opened and has balance life of 22 years. Till date, there is no backfilling. The final mine void will be covered into water body. The Project has two nos. of dumps in an area of 160 Ha. (135 ha.-external OB dump & 25 ha.-top soil dump) with 5mt height and (58.73 Mm³- external OB dumps & 5.56 Mm³ soil dumps) Mm³ of OB. The OB from the current mining operation will not be backfilled. No internal OB dump is envisaged in the project.</p> <p>The land after completion of all closure activities and re-imbursement of corpus deposited appropriate action for handling over the land will be taken. A</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>mine closure plan was approved by the WCL Board along with opening of account no. 323203800000470 at Union bank, Gandhi Bagh Nagpur. The total fund available in account as on date is Rs. 16,38,72,502.00 for F.Y. 22-23.</p> <p>Post Mining land will be made usable for agricultural /forestry purposes and shall be handed over to the respective State Government as per the Final Mine Closure Plan. Till date, there is no backfilling.</p> <p>(Annex-7_Mine Closure Plan)</p>
iv	<p>The entire excavated area, backfilling external OB Dump (including topsoil) and afforestation plan shall be in conformity with the "during mining/post mining" land use pattern which is an integral part of the approved mine closure plan and the EMP/EIA submitted to this Ministry. Progressive compliance status vis-à-vis the post mining land use pattern shall be submitted to the Ministry of Environment, Forest and Climate Change/Regional Office on six monthly basis.</p>	<p>Complied.</p> <p>The excavation, external OB dumping, plantation etc. is being carried out as per the approved Mining Plan in conformity with the submitted mining land use plans & EIA-EMP submitted to MOEF&CC.</p> <p>Six monthly EC compliance is regularly submitted to Ministry of Environment, Forest & Climate Change, Regional Office, Nagpur which comprises data sheet with data excavated area, backfilling, external OB dump including topsoil and afforestation data.</p> <p>(Annex-8_Email submission of six-monthly EC compliance)</p>
v	<p>The top soil, if any, shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation</p>	<p>Complied.</p> <p>As the mine is newly opened in 2015 and Topsoil is stacked separately at an earmarked site and later the same will</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

<p>purposes. Active OB shall be stabilized with native grass species to prevent erosion and surface runoff. 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 on six monthly basis.</p>	<p>be used for land reclamation and plantation purpose during progressive backfilling of the mine because at present mine backfilling is Nil.</p> <p>Topsoil removed in the F.Y 2022-23 is 0.522 Mm3 and total topsoil maintained at earmarked site as on 31.03.2023 is 1.20 Mm3 and utilization of topsoil as on date is Nil. A copy of the yearly return of the mine enclosure for F.Y 2022-23 is enclosed herewith for your ready reference.</p> <p>(Annex-9_Yearly report of mine closure)</p> <p>The following are the OB dumps including topsoil dump in the project area.</p> <p>Total dumps are 08 nos. Height of the Black Cotton/Topsoil dump is 30 mtrs. and same for OB dump is 28 mtrs and height for loose OB is 36 mtrs.</p> <p>The topsoil will be used for land reclamation (after backfilling) and plantation purpose with due course of time as per EIA/EMP. Active OB dumps such as mine embankment has been stabilized with 25,000 nos. of plantation by native species with 04 years maintenance by MPRVVN, Chindwara to prevent water infiltration, erosion and surface runoff. A copy of the MOU with MPRVVN, Chhindwara is attached herewith.</p> <p>(Annex-10_MOU with MPRVVN)</p> <p>The other overburden dumps and</p>
---	--

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		excavated area will also be vegetated with native flora species with due course of time in line with the approved Mine Closure Plan only. Status of Land reclamation report is submitted along with six monthly compliance reports.
C	Emissions, effluents, and waste disposal	
i	Transportation of coal, to the extent permitted by road shall be carried out by covered truck/conveyer. Effective control measures such as regular water sprinkling/mist/rain gun shall be carried out in critical areas prone to air pollution (with high levels of PM10 and PM2.5) such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the 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>Complied.</p> <p>At present, due to installation of the closed pipe conveyor belt system in the said mine, major part of coal is being transported through the conveyor belt system @250 MT per hour with operational capacity of 14 hours to the 2 nos. of TPSs named Khaparkheda & Koradi TPSs of the MAHAGENCO, which is contributing in the reduction of the fugitive dust generation during mineral transportation, saving of the fossil fuel used during the coal transportation directly effecting the environment and national economy. Indirectly, it is also reducing the stress on fossil fuel (diesel), reduction in disease caused due to the fugitive emission, road accidents/ traffic and carbon emission.</p> <p>(Annex-13_Geotagged photos of pipe conveyor belt system)</p> <p>Control measures are in place to mitigate air pollution due to mining activities.</p> <p>The details of existing air pollution control measures are placed below:</p> <p>a) Three nos. of the mobile water tanker having a capacity of 12KL, 12 KL and 06 KL are deployed for the</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>water spraying regarding effective dust suppression on coal transportation roads, haul road & near coal stock yard.</p> <p>b) All Coal Carrying trucks are being properly covered by Tarpaulin to minimize the fugitive dust emission (arise due to coal spillage) and trucks are being monitored through via CCTVs cameras & GPS system for the compliance.</p> <p>c) 18 nos. of Fixed Water Sprinklers have been installed and are in operation near to coal stock yard to the weigh bridge to suppress the fugitive dust.</p> <p>d) Two nos. of mist canon trolley mounted system type for dust suppression has deployed on mobile crusher.</p> <p>e) To minimize the dust generation during coal transportation the roads have been black topped.</p> <p>f) Manual Road Sweeping is done routinely along the roadside for maintaining Cleaning & brooming at the project.</p> <p>g) As said, mine is totally HoE Mine (Hire of Equipment) & all the operating vehicles are certified by PUC to control pollution. Heavy vehicles are regularly maintained & washed at the RTO, Nagpur authorized Service Centre. That limits the use of ETP at the Project</p>
--	--	---



A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>Site.</p> <p>h) To reduce electricity consumption LED lights have been installed in all offices & Chankapur Colony.</p> <p>i) To reduce air pollution in colony area, (12 km away from project), all workers have facilitated with LPG cylinders by management. No coal is issued to workers for domestic purpose.</p> <p>j) Four number of AAQ monitoring stations have been established for regular monitoring (TPM, PM 10, PM 2.5, SO₂, NO_x) of the ambient air quality and water also. The monitoring is done by Central Mine Planning and Design Institute, Regional Institute no-IV, Nagpur-A NABL Accredited Lab on a fortnight basis. And reports are regularly being submitted to MOEF&CC, New Delhi & Regional Office also.</p> <p>k) As the said mine has started in July 2015 & so on primarily 600 nos. of bamboos have already been planted and also 25000 nos. in F.Y. 2017-18 near to mine embankment and project authority is committed for further rest of the plantation as per EMP in the succeeding.</p> <p>(Annex-11_Pollution Control Measures)</p> <p>Proposed pollution control measures:</p> <p>1. Installation and commissioning of the tyre wash system at the entry and exit point of the mine is</p>
--	--	--

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>expected to be completed latest by March 2024.</p> <p>2. Deployment of the mechanical brooming machine is in tendering process and expected to be deployed latest by November 2023.</p> <p>3. Installation and commissioning of the CAAQMS at project latest by March 2024.</p>
ii	<p>Green belt consisting of 3- tier plantation of width not less than 7.5 m width shall be developed all along the mine lease area in a phased manner. The green belt comprising a mix of native species shall be developed all along the, major approach/coal transportation roads.</p>	<p>Noted for Compliance.</p> <p>As the said mine has started in July 2015 and 25,600 nos. of plantation of the native species in F.Y. 2017-18 near to mine embankment & OB dump and project authority has been done and is committed for further rest of the plantation as per EMP in the succeeding years. Plan showing latest plantation status on mine embankment and OB is attached.</p> <p>(Annex-6_Plantation on mine embankment)</p>
iii	<p>Transportation of the coal shall be carried out as per the provisions and route proposed in the approved Mining plan. Transportation of 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 impact of sound, dust and accidents could be appropriately mitigated.</p>	<p>Complied.</p> <p>To eliminate the air pollution due to coal transportation by road, pipe conveyor has been commissioned for transportation of coal from mine to two nos. of thermal power plants of MAHAGENCO.</p> <p>At present, due to installation of the closed pipe conveyor belt system in the said mine, major part of coal is being transported through the conveyor belt system @250 MT per hour with operational capacity of 14 hours to the 2 nos. of TPSs named Khaparkheda &</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>Koradi TPSs of the MAHAGENCO, which is contributing in the reduction of the fugitive dust generation during mineral transportation, saving of the fossil fuel used during the coal transportation directly effecting the environment and national economy. Indirectly, it is also reducing the stress on fossil fuel (diesel), reduction in disease caused due to the fugitive emission, road accidents/ traffic and carbon emission.</p> <p>(Annex-13, Geo-tagged photos of pipe conveyor belt system)</p> <p>Balance coal is transported through a blacked topped coal transportation road as per the route plan proposed in the approved Mining plan. All the coal carrying trucks are properly covered by tarpaulin to reduce fugitive dust emission.</p> <p>(Annex-12, Tarpaulin covered trucks photo).</p> <p>Further, coal is transported as per the provisions and route envisaged in the approved Mining Plan or Environment Management Plan.</p> <p>The following air pollution control measures are in place to mitigate air pollution due to mining activities; coal transportation and allied activities are placed below:</p> <ul style="list-style-type: none"> • 18 nos. of Fixed Water Sprinklers have been installed and are in operation near to coal stock yard to the weigh bridge to suppress the fugitive dust. • Two nos. of mist canon trolley mounted system type for dust suppression has deployed on mobile crusher.
--	--	---



A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	<ul style="list-style-type: none"> • Three nos. (3) of the mobile water tanker having a capacity of 12 kl, 12 kl and 06 kl are deployed for the water spraying regarding effective dust suppression on coal transportation roads, haul road & near coal stock yard. • All Coal Carrying trucks are being properly covered by Tarpaulin to minimize the fugitive dust emission (arise due to coal spillage) and trucks are being monitored through via CCTVs cameras & GPS system for the compliance. • To minimize the dust generation during coal transportation the roads have been black topped. • Road Sweeping machine is going to be deployed for routine brooming of the coal transportation road latest by November 2023. • The mine is operated under HoE (Hire of Equipment. All the operating vehicles have valid PUC certificates. HEMMs are serviced, washed and other maintenance works are carried out at authorized service centers outside the project area. That limits the use of ETP at the Project Site. • To reduce electricity consumption LED lights have been installed in all offices & Chankapur Colony. • To reduce air pollution in colony area, (12 km away from project), all workers have facilitated with LPG cylinders by management. No Coal is issued to workers for domestic purpose. • Four number of AAQ monitoring stations have been established for regular monitoring (TPM, PM10,
--	--

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>PM2.5, SO2, NOX) of the ambient air quality and water also. The monitoring is done by Central Mine Planning and Design Institute, Regional Institute no-IV, Nagpur-A NABL Accredited Lab on a fortnight basis. And reports are regularly being submitted to MOEF&CC, New Delhi & Regional Office also.</p> <p>Till date 25,600 nos. of saplings planted within the ML area covering an area of 10 ha (approx.). Plantation program is carried out through State expert agencies with 4 years maintenance after year of plantation.</p> <p>Proposed pollution control measures:</p> <ol style="list-style-type: none"> 1. Installation and commissioning of the tyre wash system at the entry and exit point of the mine is expected to be completed latest by March 2024. 2. Deployment of the mechanical brooming machine is in tendering process and expected to be deployed latest by November 2023. 3. Installation and commissioning of the CAAQMS at project latest by March 2024.
iv	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' certificate from the authorized pollution testing centres.	<p>Complied.</p> <p>As per the present practice, the PUC (Pollution Under Control) Certificate from the authorized pollution testing center is mandatory for all vehicles in the mine premises area and the same will be continued in future also.</p> <p>(Annex-14_Undertaking)</p>
v	Coal stockpile/crusher/feeder and	Complied.

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid airborne dust. Drills shall be wet operated or fitted with dust extractors.	At present, water spraying system through rain guns is installed at belt conveyor system and exchange points and two nos. of mist canon trolley mounted system type for dust suppression have been deployed near mobile crushers and Drills are wet operated and are fitted with dust collectors during drilling. (Annex-15_Geotagged photos of mist canon having 100m throw)
vi	Coal Handling Plant shall be operated with effective control measures viz. bag filters/water or mist sprinkling system etc. to check fugitive emissions from crushing operations, conveyor system, transfer points, etc.	Complied. CHP hasn't been constructed yet. Adequate dust suppression arrangement will be put into operation once it comes up. At present, water spraying system through rain guns is installed at belt conveyor system and exchange points and 02 nos. of mist canon system having 100 m throw have been deployed for the dust suppression in the mobile crusher system. Regarding Fugitive dust monitoring, it is submitted that as CMR 123 of 1957, 8 hour weighted work zone standard for fugitive dust emission is 3000 ug/m ³ . Fugitive dust monitoring is carried out at. 1. Bhanegaon OCM-Coal Stock-NSOF-1 2. Bhanegaon OCM-Weighbridge-NSOF-2 Fugitive dust concentration report is

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		attached. (Annex-16_Fugitive Dust Report)
vii	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>Complied.</p> <p>It is informed that no ground water, other than pumped water from mine is being used for meeting the industrial demand viz. dust suppression, plantation etc. No ground water is used for extraction of coal or evacuation of OB/Soil is being used for mining operation.</p> <p>Water conservation measures implemented in project are roof top rainwater harvesting system has been installed at the Office of the Sub Area Manager, Mine Manager, Sub stations and hostel building etc. for conservation and augmentation of ground water resources.</p> <p>(Annex-17_Rainwater Harvesting Photos)</p> <p>Additionally, out of total land of 347.46 ha, only 88.15 Ha is in use for excavation 137.20 ha for OB dumping, 07 ha for embankment and infrastructure which comes to about 70% of the total land. The remaining land of 115 Ha is still untouched and serving as a water recharge structures.</p> <p>The level of the ground water and the wells in buffer zone is being monitored continually round the year at quarterly intervals. Reports attached.</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>(Annex-18_Groundwater Monitoring Report)</p> <p>Additionally, balance water is being supplied to MAHAGENCO i.e., WCL has signed an MoU with Maharashtra Govt. to provide 10.79 MM³/year water from the said OC mine to Thermal Power Plants of MAHAGENCO and water previously utilized by the MAHAGENCO from the Pench Dam will be utilized by the Nagpur city. MoU signed with MAHAGENCO to supply water from the Bhanegaon OCM WCL, Nagpur Area and photos of the Raw water filter plant for water treatment and water boosting station established by MAHAGENCO for water supply from Bhanegaon OCM is attached.</p> <p>(Annex-19_Raw Water Filter Plant Photo)</p>
viii	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. Further, dump material shall be properly consolidated /compacted and accumulation of water over dumps shall be avoided by provided by adequate channels for flow of silt into the drains. The drains/ponds so constructed shall be regularly desilted particularly before onset off monsoon and maintained properly. The sump capacity should provide adequate retention time period to allow proper settling of the silt material. The water</p>	<p>Complied.</p> <p>To arrest the silt, catch drains of size 1850 m (L) x 21 m (W) x 03 m (D) has been constructed around the OB dump and quarry to arrest flow of silt and sediments into natural water course. The drains & sedimentation ponds are desilted periodically & maintained properly especially onset of monsoon.</p> <p>Further, one no. of Garland drain having size 1100 m (L) x 20 m (W) x 3 m (D) has also been provided around the dump has been designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mines site.</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

<p>so collected in the sump shall be utilized for dust suppression measures and green belt development. Dimension of the retaining wall constructed, if any should be base on the rainfall data. The plantation of the native species to be made between toe of the dump & adjacent field/habitation/water bodies.</p>	<p>The accumulated water after proper settling of silt material is reused Internally.</p> <p>For collection and treatment of strata water seepage, cross drains are construction for directing the strata seepage towards mine sump at quarry floor area. In Singhori OC, a sump has been provided with adequate capacity of 63 million gallons with retention period of 12hrs to allow proper settling of silt material before pumping it onto surface sedimentation tanks of 60 m (L) * 30 m (B) * 1.2 m (D), for further treatment.</p> <p>The treated mine pumped out water is being utilized within the mine premises for maintenance of greenbelt & dust suppression etc. and the surplus water is discharged into nallah/Kanhan river.</p> <p>Till date, 25,600 nos. of saplings planted covering an area of 10 Ha. The following native species are planted:</p> <p>Ganga Imli, Amla, Neem, Karang, Pipal, kachnar, Acasia, Sisoo, peltform, Raintree, Safedsiras, Gulmohar, Casia, Saptarni, etc.</p> <p>The plantation programmed has been carried out by State expert agency MPRVVN with maintenance of 4 years after the year of plantation.</p> <p>To arrest the flow of silt and sediments, following measure are taken:</p> <p>i) Garland drains of length 3340 m are constructed around the OB dumps and proposed for 680 m also. These drains</p>
--	--

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>are desilted before onset of monsoon.</p> <p>II) The silt and sediment from OB benches are guided through cross drainage into the mine sump having sufficient capacity to allow settlement of suspended particles and then the supernatant is pumped to surface sedimentation tank and Raw water Filter plant of size 60X30X1.2 mtr and 30X12X2.5 mtr.</p> <p>The treated water from sedimentation tanks is used for industrial purposes by supplying to thermal power plants of the MAHAGENCO.</p> <p>Showing Raw Water Screening Plant at Bhanegaon for water treatment.</p> <p>(Annex-20_Raw Water Treatment Plant Photo)</p> <p>Showing water Pumping station for MAHAGENCO.</p> <p>(Annex-21_Geotagged photos of water pumping station)</p> <p>Plantation of around 25,600 nos. of native species has been done at mine embankment, OB dumps & between river & project.</p>
ix	<p>Industrial wastewater generated from CHP, workshop and other wastewater shall be properly collected and treated so as to conform to the standards prescribed under Environment Protection Act, 1986 and the rules made there under and as amended from time to time. Oil and grease trap</p>	<p>Complied.</p> <p>The quality of mine pumped out water is being monitored fortnightly by CMPDIL, RI-IV, Nagpur and the reports are submitted to RO, MOEF&CC and SPCB regularly. In Singhori OC, a sump has</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	<p>should be installed and maintained fully functional with effluents discharge adhering to the norms. Sewage treatment plant of adequate capacity shall be installed in the existing colony and offices.</p>	<p>been provided with adequate capacity of 63 million gallons with retention period of 12 hrs to allow proper settling of silt material before pumping it onto surface sedimentation tanks of 60 m (L) * 30 m (B) * 1.2 m (D), for further treatment. The treated mine pumped out water is being utilized within the mine premises for maintenance of greenbelt & dust suppression etc. and the surplus water is discharged into nallah/Kanhan river.</p> <p>A copy of the last one-year monitoring report of mine discharge is attached.</p> <p>(Annex-18_Groundwater Monitoring Report)</p> <p>As, the mine is being operated under HoE, there is no township for employees in the mine premises, no sewage is generated and eliminate the need of the sewage treatment plant.</p> <p>Regular monitoring of treated mine discharge water is being carried out on fortnightly by CMPDIL, RI-IV, Nagpur and reports are being submitted to IRO, MOEF&CC and SPCB on regular basis.</p>
x	<p>Adequate ground water recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby villages in case the village wells go dry due to dewatering of mine.</p>	<p>Complied.</p> <p>Rainwater harvesting system has been installed at the building of the O/O The Sub Area Manager, Bhanegaon Singhori Sub Area, 3.3 kV substation of Bhanegaon OCM, Rest shelter of Bhanegaon OCM and Transit Hostel at Chankapur Colony. Further, it may be mentioned here that the leftover mine voids after life of mine will also serve as</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>water body & helping in water conservation & in improving groundwater levels. PP is committed to provide the water to nearby villagers if village go dry but ground water report is not showing such kind of trends. In general, at present, the excess treated mine pumped out water discharged to local streams/ nullah is being used by the neighboring community.</p> <p>In this regard, WCL has signed and MoU with Maharashtra Govt. to provide 10.79 MM³/year water from the said OC mine to Thermal Power Plants of MAHAGENCO and water previously utilized by the MAHAGENCO from the Pench Dam will be utilized by Nagpur city.</p> <p>Showing Coverage of the HITVADA during signing of the MOU between WCL and MAHAGENCO.</p> <p>(Annex-22_Coverage of Hitvada)</p> <p>Showing installation of Rainwater harvesting system.</p> <p>(Annex-17_Rainwater harvesting photos)</p>
D	Illumination, Noise & Vibration Control:	
i	Adequate illumination shall be ensured in all mine locations and monitored weekly. Report on the same shall be submitted to this ministry and it's RO on six monthly basis.	<p>Complied.</p> <p>Illumination has been maintained as per new CMR guidelines. Latest illumination report.</p> <p>(Annex-23_Illumination Report)</p>
ii	Adequate measures shall be taken for	Complied.

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	<p>control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. shall be provided with ear plugs/muffs. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.</p>	<p>Adequate measures are taken for control of Noise pollution. Workers engaged in blasting and drilling operations, operation of HEMM, etc. are being provided with PPE like Ear plugs/muffs etc. with personal protective equipment. Regular awareness programme for training and retraining of workers are also conducted in vocational training center.</p> <p>Details of VTC training are as follows:</p> <table border="1"> <thead> <tr> <th rowspan="2">Year</th><th colspan="2">VTC</th></tr> <tr> <th>Contractual</th><th>Departmental</th></tr> </thead> <tbody> <tr> <td>2018-19</td><td>37</td><td>16</td></tr> <tr> <td>2019-20</td><td>39</td><td>02</td></tr> <tr> <td>2020-21</td><td>11</td><td>302</td></tr> <tr> <td>2021-22</td><td>293</td><td>40</td></tr> <tr> <td>2022-23</td><td>57</td><td>29</td></tr> <tr> <td>Period April'23 to Sep'23</td><td>150</td><td>8</td></tr> </tbody> </table> <p>(Annex-24_VTC Training Details)</p>	Year	VTC		Contractual	Departmental	2018-19	37	16	2019-20	39	02	2020-21	11	302	2021-22	293	40	2022-23	57	29	Period April'23 to Sep'23	150	8
Year	VTC																								
	Contractual	Departmental																							
2018-19	37	16																							
2019-20	39	02																							
2020-21	11	302																							
2021-22	293	40																							
2022-23	57	29																							
Period April'23 to Sep'23	150	8																							
iii	<p>Controlled blasting techniques should be practiced in order to mitigate ground vibrations and fly rocks as per the guidelines prescribed by DGMS.</p>	<p>Complied.</p> <p>Controlled blasting techniques with use of delay detonators are practiced during daytime to control ground vibration and to arrest the fly rocks. The controlled Blasting Technique as permitted by DGMS is being adopted. Undertaking is attached.</p>																							

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) Issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		(Annex-25_Undertaking)
iv	The noise level survey shall be carried out and per the prescribed guidelines to assess noise exposure of the workman at vulnerable points in the mine premises and report in this regard shall be submitted to the ministry of /RO on six monthly basis.	<p>Complied.</p> <p>Controlled blasting techniques with use of delay detonators are practiced during daytime to control ground vibration and to arrest the fly rocks. The controlled Blasting Technique as permitted by DGMS is being adopted. Further, regarding the noise level monitoring covering working areas such as drilling at active mine bench and ground vibration reports and the records are accordingly maintained at project level for routine inspection by DGMS officials as per Mines Act, 1952.</p> <p>(Annex-25_Undertaking)</p> <p>Noise level monitoring is carried out regularly on a fortnightly basis at different locations covering core & buffer zones and the reports are submitted to IRO, MOEF&CC on regular basis.</p> <p>The monitoring stations are as below:</p> <ol style="list-style-type: none"> 1. NBON-1-Contractor camp. <p>(Annex-18_Groundwater Monitoring Report)</p>
E	Occupational Health & Safety:	
i	Proponent shall undertake an Occupational Health Survey for initial and Regular Periodical medical examination of the workers engaged in the Project and maintain records accordingly as per the Mines Rules, 1955 and DGMS Circulars. Besides	<p>Complied.</p> <p>Personal working in dusty areas is provided with dust masks. Periodical health check-up of mine workers are carried out once in 5 years with the</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	<p>being regular periodic checkup, 20% of the workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupation disease and impairment, if any.</p>	<p>purpose of detecting occupational diseases & hearing impairment. Every worker in the mine is examined in 5 years- up to the age of 45; the workers who are above 45 years are subjected to periodic medical examination at three years interval.</p> <p>Area Hospitals such as J N Hospital and Walni Hospital is having 50*2 total 100 nos. of bedding capacity.</p> <p>At present, since opening no such occupational diseases and or hearing impairment has been recorded. Year wise details are attached.</p> <p>(Annex-26_IME/PME Report)</p>																								
ii	<p>Personnel (including outsourcing employee) working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.</p>	<p>Complied.</p> <p>Personnel working (Including outsourcing employee) in dusty areas provided with protective respiratory devices and advised to wear the same during the work. Details for distribution of PPE kit in FY 23-24 is as follows:</p> <table border="1"> <thead> <tr> <th>Sr no</th><th>PPE Equipment</th><th>Nos. Distributed</th></tr> </thead> <tbody> <tr> <td>1</td><td>First Aid Kit</td><td>13</td></tr> <tr> <td>2</td><td>Helmet</td><td>34</td></tr> <tr> <td>3</td><td>Earmuffs</td><td>11</td></tr> <tr> <td>4</td><td>Masks</td><td>39</td></tr> <tr> <td>5</td><td>Florescent jackets</td><td>34</td></tr> <tr> <td>6</td><td>Life Jackets</td><td>8</td></tr> <tr> <td>7</td><td>Water Bottle</td><td>124</td></tr> </tbody> </table>	Sr no	PPE Equipment	Nos. Distributed	1	First Aid Kit	13	2	Helmet	34	3	Earmuffs	11	4	Masks	39	5	Florescent jackets	34	6	Life Jackets	8	7	Water Bottle	124
Sr no	PPE Equipment	Nos. Distributed																								
1	First Aid Kit	13																								
2	Helmet	34																								
3	Earmuffs	11																								
4	Masks	39																								
5	Florescent jackets	34																								
6	Life Jackets	8																								
7	Water Bottle	124																								

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<table border="1"> <tr> <td>8</td><td>Mining Shoes</td><td>96</td></tr> <tr> <td>9</td><td>Gum Boot</td><td>75</td></tr> <tr> <td>10</td><td>Goggles</td><td>19</td></tr> </table> <p>Safety awareness programme & training are conducted regularly for personnel of the project.</p> <p>(Annex-27_PPE Kit Details).</p>	8	Mining Shoes	96	9	Gum Boot	75	10	Goggles	19
8	Mining Shoes	96									
9	Gum Boot	75									
10	Goggles	19									
iii	Skill training as per safety norms specified by DGMS shall be provided to all workman including the outsourcing employee to ensure high safety standards in mine.	<p>Complied.</p> <p>Skill training as per safety norms specified by DGMS is provided to all workmen including the outsourcing employee on regular basis to ensure high safety standards in mine.</p>									
F	Ecosystem and Biodiversity conservation										
i	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	<p>Complied.</p> <p>The Issues raised during the public hearing are being properly addressed. Land outsees has being compensated and employment has been given to all the eligible persons as per R&R policy. All the guidelines will be adhered to from time to time framed by Government body in future. Details up to September 2023.</p> <p>Employment – 79 nos. Monetary Compensation given to-60 nos. Land compensation paid – 64.21 crores. Land outsees has been compensated as per the norms laid down in the R&R policy of the company.</p>									



A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		Tenancy land compensation- 317.7966 Ha (as per new rate) - is Rs. 5958 Cr. Land compensation given for 29.66 Ha Govt. land - Rs. 4.62 Cr.
G	Public Hearing, R&R & CSR Activities:	
i	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees should be compensated as per the norms laid out R&R Policy of the Company or the National R&R Policy or R&R Policy of the State Government, as applicable.	<p>Complied.</p> <p>Latest status on the compliance of action plan on the issues raised during Public Hearing is enclosed.</p> <p>(Annex-28_Latest Status of Public Hearing)</p> <p>Further, PP is committed towards the timely completion of all the tasks as per the action plan submitted to MOEF&CC with the budgetary provision as per company/Govt. norms.</p> <p>Concerned land oustees had been compensated as per the norms laid out R&R Policy of the Company.</p>
ii	The project proponent shall ensure that the expenditure towards socio economic development in and around the mine in every financial year, in pursuance of its Corporate Social Responsibility Policy under Section 135 of the Companies Act, 2013.	<p>Complied.</p> <p>As per the CIL's CSR policy under Companies Act, 2013, the fund for the CSR is being allocated based on 2% of the average net profit of the Company for the three immediately preceding financial years or Rs 2.00 per Ton of Coal Production of the previous year whichever is higher and the same CSR fund allocated utilized towards socio economic development of villages neighboring the project within 25 km range.</p> <p>Details of undertaken for CSR as attached.</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>(Annex-29_CSR Activities)</p> <p>Additionally, last 10-year CSR activities of the Company web site at link http://www.westerncoal.in/index1.php/StaticPage/147</p> <p>(Annex-30_Last 10 year CSR activities on Company website)</p>
iii	The project proponent shall follow the mitigation measures provided in Office Memorandum No 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".	<p>Not applicable on current mine lease area and PP consented to the condition in future, if required.</p> <p>No habitation and villages are part of mine lease areas or surrounded by mine lease area. A copy of the mine working plan showing mine lease area is attached.</p> <p>(Annex-31_Mine Working Plan)</p>
iv	The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land.	Not applicable on as no grazing land is involved in the project area.
H	Corporate Environment Responsibility:	
i	The Company should have a well laid down Environment Policy approved by the Board of Directors. The Environment Policy should prescribe for standard operating	<p>Complied.</p> <p>The Coal India Limited Corporate Environment Policy 2019 duly followed WCL is attached.</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	process/procedures to bring into focus any infringements /deviation/violation of the environmental or forest norms/conditions. To have proper checks and balances, the Company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large.	(Annex-32_CIL Policy)
ii	The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.	<p>Complied.</p> <p>The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions is displayed on the website of the Company.</p> <p>Link: http://www.westerncoal.in/index1.php/StaticPage/123</p> <p>(Annex-33_Organizational chart of the Company)</p>
iii	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	<p>Complied.</p> <p>There exists a three-tier environment management set up in WCL as detailed below:</p> <p><u>At HQ, WCL-</u> The cell is headed by GM (Env) reporting to Director Technical. The team comprises of multi-disciplinary trained executives.</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p><u>At Area level</u> - Area General Manager heads the Environment Department assisted by GM (Oprn) & Area Nodal Officer (Environment) of Environment discipline.</p> <p><u>At Unit Level</u>-Environment Management Cell is headed by Sub-Area Manager and assisted by Mine Manager, Project Nodal Officer (Env) at unit level.</p> <p>Organizational chart of the Company at link - http://www.westerncoal.in/index1.php/StaticPage/123</p> <p>(Annex-33_Organizational chart of the Company)</p>
iv	<p>Action plan for implementing EMP conditions shall be prepared and duly approved by competent authority. The year wise funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry and its Regional Office along with six monthly compliance reports.</p>	<p>Being complied.</p> <p>The funds earmarked for environment protection measures are kept in separate account and it is not used for any other purpose. Expenditure statement is shown in every six-monthly compliance report sent to MOEF&CC.</p> <p>(Annex-8_Email submission of six-monthly EC compliance)</p> <p>Capital Expenditure till 30.09.2023 is Rs. 156.4 lakhs Revenue Expenditure till 30.09.2023 is Rs. 170.99 lakhs.</p> <p>A copy of the last five financial year environmental expenditure.</p> <p>(Annex-34, Capital/Revenue Expenditure details)</p>



A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

v	Self-environment audit shall be conducted annually. Even three years third party environment audit shall be carried out.	<p>PP has consented to the condition.</p> <p>A self-internal environmental audit system has been setup in the company recently. At Area level, a multi-disciplinary committee has been constituted by order of competent authority to review the compliance status every month through a formatted checklist. Inter-area inspection to review compliance status is being done on a quarterly basis. The report of the inspection is put up to the subsidiary level apex committee which has been constituted under the chairmanship of Director (Technical), WCL. Mechanism for internal monitoring of EC compliance.</p> <p>(Annex-35_Internal monitoring of EC compliance)</p> <p>Verification of the EC condition compliance done by third party i.e. National Environmental Engineering Research Institute (NEERI) on dated 11.02.2021 and communicated vide letter 26.02.2021 is attached.</p> <p>(Annex-36_Third party audit report)</p>
I	Statutory Obligations:	
i	Environmental clearance shall be subject to order of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other Court of Law from time to time, and as applicable to this project.	Noted and agree.

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

ii	This Environmental Clearance is subject to obtaining requisite wildlife if applicable from the Standing Committee of National Board for Wildlife.	Not applicable on project as no endangered/endemic flora/fauna has spotted, so far.
iii	The Project Proponent shall obtain Consent to Establish and Consent to Establish/ Operate under the Air Act, 1981 and the Water Act, 1974 from the concerned State Pollution Control Board.	<p>Noted and complying with.</p> <p>Project is having a valid Consent to Establish (CTE) & Consent to Operate (CTO) for 1.15 MTPA production capacity is valid up to 31.03.2023 from Maharashtra Pollution Control Board, Mumbai.</p> <p>The same has been applied for renewal and is in process at MPCB.</p> <p>A copy of the application for renewal of application along with Consent to Operate and Consent to Establish is attached.</p> <p>(Annex-37_Application for renewal of application along with CTO and CTE)</p>
iv	The Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA).	<p>Complied.</p> <p>NOC from the Central Ground water Authority (CGWA) has been secured on 03.03.2022 and validity up to 02.03.2024 and copy attached.</p> <p>(Annex-38_NOC from CGWA)</p>
J	Monitoring of Project	
i	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , SO ₂	<p>Complied.</p> <p>Air quality monitoring of PM₁₀, PM_{2.5}, SO₂ and NO_x is being carried out on</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

and NO_x monitoring. 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. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.

fortnightly basis and the reports are being submitted to RO, MOEF&CC and SPCB regularly.

Based on the meteorological data & topographical features, air quality monitoring stations are decided in consultation with SPCB covering core zone & buffer zones.

Regarding details of Stations, locations & monitored values for ambient air quality monitoring. A copy of the monitoring reports is attached for the period April 2023 to Sep 2023.

(Annex-39_Environment Monitoring Report)

Photo: Showing Environment Monitoring report.

Name of the mine	Station
Ambient Air Quality Monitoring Station at Bhanegaon OC	Near Manager Office
	Bina Sangam Temple
	Dorli Village
	Bina Village
Water Quality & monitoring station at Bhanegaon OC	Mine Water Discharge
Noise monitoring station at Bhanegaon OC	Contractor Camp

Regarding Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. are being carried out every six months. The latest report of heavy metal monitoring

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		is enclosed. (Annex-40_Heavy Metal Report)											
ii	<p>The ambient air quality monitoring in the core zone shall be carried out to ensure the coal industry standard notified under GSR 742 (E) Dated 25.09.2000 as amended from time to time by CPCB. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr, etc. shall be regularly reported to the ministry regional office and to the CPCB/SPCB.</p>	<p>Complied.</p> <p>Air quality monitoring of PM₁₀, PM_{2.5}, SO₂ and NO_x is being carried out on fortnightly basis and the reports are being submitted to RO, MOEF&CC and SPCB regularly.</p> <p>Based on the meteorological data & topographical features, air quality monitoring stations are decided in consultation with SPCB covering core zone & buffer zones.</p> <p>Please refer to Annex-16, regarding details of Stations, locations & monitored values for ambient air quality monitoring. A copy of the monitoring reports for the last two quarters (April 2023 to Sep 2023 are enclosed)</p> <p>(Annex-39_Environment Monitoring Report)</p> <table><tr><th>Name of the mine</th><th>Station</th></tr><tr><td rowspan="4">Ambient Air Quality Monitoring Station at Bhanegaon OC</td><td>Near Manager Office</td></tr><tr><td>Bina Sangam Temple</td></tr><tr><td>Dorli Village</td></tr><tr><td>Bina Village</td></tr><tr><td>Water Quality & monitoring station at Bhanegaon OC</td><td>Mine Water Discharge</td></tr><tr><td>Noise monitoring station at Bhanegaon OC</td><td>Contractor Camp</td></tr></table>	Name of the mine	Station	Ambient Air Quality Monitoring Station at Bhanegaon OC	Near Manager Office	Bina Sangam Temple	Dorli Village	Bina Village	Water Quality & monitoring station at Bhanegaon OC	Mine Water Discharge	Noise monitoring station at Bhanegaon OC	Contractor Camp
Name of the mine	Station												
Ambient Air Quality Monitoring Station at Bhanegaon OC	Near Manager Office												
	Bina Sangam Temple												
	Dorli Village												
	Bina Village												
Water Quality & monitoring station at Bhanegaon OC	Mine Water Discharge												
Noise monitoring station at Bhanegaon OC	Contractor Camp												

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		<p>Regarding Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. are being carried out every six months.</p> <p>(Annex-40_Heavy Metal Report)</p>
iii	<p>The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the coal industry standards of GSR 742 (E) Dated 25.09.2000 and as amended from time to time by CPCB.</p>	<p>Not applicable at present.</p> <p>The said mine is total HoE mine (Hiring of Equipment's) and all machinery is being washed / serviced at the RTO designated stations in Nagpur and there is no need for the workshop at the mine premises. Although, as per direction from MPCB, PP has issued a work order for installation and commissioning of ETP (Effluent Treatment Plant) of 10000 L/day capacity. Work has been started and expected to be completed by March 2024.</p> <p>Copy of the work order is attached as (Annex-51_Work Order ETP)</p> <p>Quality of mine pumped out water being monitored fortnightly by CMPDIL, RI-IV, Nagpur and reports show that the parameters are within permissible limits. Mine discharge water quality is monitored on fortnightly basis and the reports are submitted to RO, MOEF&CC and SPCB regularly.</p> <p>The quality of the effluent discharge (workshop effluent i.e. ETP) will be monitored after commissioning of ETP.</p> <p>(Annex-8_Email submission of six-monthly EC compliance)</p>
iv	The monitoring data shall be uploaded	Complied.

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	<p>on the company website and displayed at the project site at a suitable location. The circular no. J-20012/1/2006/.IA.II(M) Dated 25.09.2000 and as amended from time to time by CPCB.</p>	<p>Environmental monitoring reports are being uploaded on the company's website regularly and displayed at project site near to the project manager office. Link to access the data is as below: http://www.westerncoal.in/index1.php/StaticPage/153 (Annex-40.A_Monitoring data uploaded on Company's website)</p>
v	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year pre-monsoon, monsoon, post-monsoon and winter and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office.</p>	<p>Complied.</p> <p>Monitoring of ground water level in core & buffer zone is being carried out four times in a year & water quality analysis is done once in a year by establishing network of existing wells. The reports of groundwater level & quality are submitted to RO, MOEF&CC, SPCB and CPCB on regular basis. Copy of the Work order for Ground water monitoring is attached.</p> <p>(Annex-41_Work order for Ground Water)</p> <p>The level of the ground water and the wells in buffer zone is being monitored continually round the year at quarterly intervals. Reports attached.</p> <p>(Annex-18_Groundwater Monitoring Report)</p> <p>In addition to that, a test report for the surface water from MOEF&CC certified laboratory is attached.</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		(Annex-42_Test report of ground water)
vi	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 MoEF&CC, Regional Office.	<p>Complied.</p> <p>Water quality for upstream and downstream of water bodies i.e. Kanhan river passing along the mine with a safe distance of 250 meter from the mine is carried out once in six months and record of monitoring data is maintained and submitted to MOEF&CC, Regional Office along with six monthly EC compliance status report. A copy of the latest report is attached.</p> <p>(Annex-42.A_Upstream Downstream Report)</p>
vii	Project proponent shall submit six monthly reports on the status of the implementation of the stipulated environment conditions to the Ministry of Environment, Forest and Climate Change and its Regional Office. For half yearly monitoring reports data should be monitored for the period April to September and October to March of the financial years.	<p>Complied.</p> <p>Compliance report on status of implementation of EC conditions is being submitted via email to IRO, MOEF&CC, Nagpur once in Six months for the period 01.10.2022 to 31.03.2023 & 01.04.2023 to 30.09.2023 on regular basis:</p> <p>(Annex-43_Email submission of six-monthly EC compliance)</p>
viii	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 & agree to comply.
K	Miscellaneous	

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

i	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	<p>Complied.</p> <p>All efforts are being made to reduce energy and fuel consumption by energy conservation & making improvement in efficiency and use of renewable energy such as:</p> <p>(i) A rooftop solar system of 80 KW has been installed at Nagpur Area HQ office building & residential buildings.</p> <p>(ii) Additionally, a solar power plant of 70 KW is installed at Bhanegaon Singhori Sub Area Manager Office near Bhanegaon OCM.</p> <p>(iii) For improvement in energy efficiency, all light bulbs are replaced by LED bulbs.</p> <p>(Annex-44_Solar Plant Photo)</p>
ii	The project authorities shall inform to the Regional Office regarding commencement of the mining operations.	<p>Complied.</p> <p>PP informed to the IRO, Nagpur with the submission of Six-monthly report regarding commencement of project.</p>
iii	A copy of Environment Clearance letter will be marked to concern Panchayat. A copy of the same shall also be sent to the concerned pollution control board, Regional office, District Industry Centre and Collector's office/ Tehsildar Office for 30 days.	<p>Complied.</p> <p>A copy of the receiving from Gram Panchayat is attached.</p> <p>(Annex-45_Gram panchayat EC receiving)</p>
iv	The EC shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in	<p>Complied.</p> <p>The Environmental Clearance letter has been uploaded on the company's website on link: http://www.westerncoal.in/index1.php/StaticPage/154</p>


A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

	public domain.	<p>The half yearly EC compliance report is also uploaded onto the company's website on link: http://www.westerncoal.in/index1.php/StaticPage/154</p> <p>(Annex-46_EC compliance uploaded on Company's website)</p>
v	<p>The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office</p>	<p>Complied.</p> <p>Advertisements are published in two Local News Papers:</p> <ol style="list-style-type: none"> 1. Times of India (English) dated 25.02.2018. 2. Tarun Bharat (Marathi-vernacular language) dated 25.02.2018. <p>(Annex-47_Newspaper Advertisement)</p>
vi	<p>The Environmental Statement for each financial year ending 31 March in Form-V is mandated to be submitted by the PP for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the Company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF & CC by e-mail.</p>	<p>Complying with.</p> <p>The environmental statement (Form-V) for each financial year is submitted to SPCB on or before 30th September. Last Environmental Audit Statement for F.Y 2022-23 was submitted online on MPCB Portal.</p> <p>(Annex-48_MPCB Environment audit online status)</p> <p>A copy of the same along with EC compliance report is submitted to Regional Office, MOEF&CC.</p>

A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC, New Delhi vide letter no-J-11015/43/2004 -IA.II (M) issued on 16.02.2018 by Ministry of Environment, Forest & Climate Change, IA-II (Coal Mining) Division, Government of India for Expansion of Bhanegaon Opencast Coal mine project (for production capacity from 0.70 MTPA to 1.15 MTPA) located in an area of 347.46 ha in Tehsil Kamptee, District Nagpur of Maharashtra State under administrative control of M/s Western Coalfields Ltd., Nagpur Area-reg.

		(Annex-43_Copy of email for submission of EC compliance)
vii	The Ministry may stipulate any further condition for environmental protection, if so, required in due course of time.	Noted and agree to comply with.
viii	The above conditions will be enforced inter alia under the provision of the water Act, 1974 and Air Act, 1981, Environment protection act, 1981 and the public liability act, 1991 along with their amendments and their rules and any other order passed by Hon'ble Supreme Court of India /High courts and any other court of law to the subject matter.	Noted and agree to comply with.


 (Avinash Prasad)
 General Manager (Mining)/ Sub Area Manager,
 Bhanegaon Singhori Sub Area,
 Western Coalfields Limited, Nagpur Area

 27/11/23
 Mine Manager,
 Expansion of Bhanegaon Opencast Mine,
 Bhanegaon Singhori Sub Area,
 Western Coalfields Limited, Nagpur Area