

Submission

Expansion of Gondegaon Extension Opencast Coal Mines Project from 2.5 MTPA to 3.5 MTPA by M/s Western Coalfields Limited in a mine lease area of 791.40 ha in village Gondegaon, tehsil Parseoni, District Nagpur (Maharashtra) – EC reg.

Proposal No. : IA/MH/CMIN/117831/2019; F.No. J-11015/106/2009-IA-II(M)

Project Name: **Expansion of Gondegaon Extension OC Coal Mining Project**

Proposal submission date: 17.09.2019

Information /Clarification on ADS raised on 06.12.2019

PARIVESH
परिवेश

Ministry of Environment, Forest and Climate Change
Government of India
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Form for uploading additional document

Remarks* :

Attach additional document:* : No file chosen (Pls Upload pdf only)

Sno.	Proposal No.	Remarks	Uploaded additional document	Date of correspondence	Status
1	IA/MH/CMIN/117831/2019	pls find the enclosed letter. For your kind perusal please	Additional letter	06/12/2019	Pending

The enclosed letter vide no. J – 11015/106/2009-IA.II (M) dated 06.12.2019 is placed below for kind perusal.



No.J-11015/106/2009-IA.II(M)
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhavan,
Vayu Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110 003

Dated: 6th December, 2019

To,

The General Manager (Environment),
M/s Western Coalfields Ltd,
Coal Estate, 9th Floor, Civil Lines,
Nagpur - 1 (Maharashtra)

Email: gmenvironment.wcl@nic.in; wclenv@yahoo.in

Sub: Expansion of Gondegaon Extension Opencast Coal Mine Project from 2.5 MTPA to 3.5 MTPA by M/s Western Coalfields Limited in a mine lease area of 791.40 ha in Village Gondegaon, Tehsil Parseoni, District Nagpur (Maharashtra) - reg.

Sir,

This has reference to your online proposal No. IA/MH/CMIN/117831/2019 dated 17th September, 2019 on the above-mentioned subject.

2. The Ministry of Environment, Forest and Climate Change, vide letter dated 28th March, 2019, has granted environmental clearance to the expansion of Gondegaon Extension Opencast Coal Mining Project from 2.5 to 3.5 MTPA in area of 917 ha (mine lease area 845.74 ha) for a period of one year, subject to compliance of certain terms & conditions and environmental safeguards.

3. M/s Western Coalfields Limited has sought amendment in environmental clearance Gondegaon Extension Opencast Coal Mining Project for reducing the area from 845.74 ha to 791.40 ha i.e. reduction of area by 54.34 ha, as the area has become part of the proposed Amalgamation of the Kamptee Deep and Inder OCP coal mines.

4. The proposal was considered by the Expert Appraisal Committee (EAC) in its meeting held on 22nd October, 2019. The sectoral EAC in its meeting held on 22nd October, 2019 has recommended the project for amendment of environmental clearance subject to the compliance of certain terms & conditions.

5. The matter was examined further in the Ministry and accordingly, it was observed that the current proposal requires extension of EC beyond 28th March, 2020 wherein, EAC had observed that the project proponent shall submit certified compliance report from Regional Office for further consideration. Accordingly, it is

informed that both the proposal for extension and amendment in environmental clearance shall be considered together at a later stage after submission of compliance report.

6. In the light of the above, the undersigned is directed to inform that the proposal of extension of environmental clearance shall be applied with requisite compliance of EAC observation and its action plan for further processing along with current proposal of amendment in environmental clearance.

This issues with approval of the competent authority.


(Dr. R. B. Lal)
Scientist E

Kind attention is drawn towards point no 5 and 6 of above letter vide dated 06.12.2019

Quote

" 5. The matter was examined further in the Ministry and accordingly, it was observed that the current proposal requires extension of EC beyond 28th March 2020 wherein EAC has observed that the project proponent shall submit certified compliance report from Regional Office for further consideration. Accordingly, it is informed that both the proposal for extension and amendment in environmental clearance shall be considered together at a later stage after submission of compliance report

6. In light of the above, the undersigned is directed to inform that the proposal of extension of environmental clearance shall be applied with requisite compliance of EAC observations and its action plan for further processing along with current proposal of amendment in environmental clearance"

Unquote

In compliance of MoEF & CC directives, Certified Copy of Compliance for Expansion of Gondagaon Extension opencast coal mine project has been secured from RO, MoEF & CC, Nagpur vide its letter no.EC -766 /RON/ 2018/ NG/ 6001 dated 20-12-2019.

The action taken report on Partial Non compliance has been submitted to RO, MoEF & CC, Nagpur. A copy of the same is also enclosed herewith.

As directed, the proposal of extension of environmental clearance has also been applied separately.

The extension of EC validity along with amendment may kindly be accorded for the subject project.



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FORESTS &
CLIMATE CHANGE

Regional Office (WCZ)
Ground Floor, East Wing
New Secretariat Building
Civil Lines, Nagpur 440001.
apccfcentral-ngp-mef@gov.in

File No.EC-766/RON/2018/NG/6001

Date: 20-12-2019

To

The Member Secretary,
IA Division (Coal),
Ministry of Environment forest and climate change,
Indira Paryavaran Bhawan,
Aliganj, Jorbagh Road,
New Delhi-110003.

Sub: Expansion of Gondegaon Extension Opencast Coal Mine Project from 2.5 MTPA to 3.5 MTPA by M/s.Western Coalfields Limited in an area of 917 ha in Village Gondegaon, Tehsil Parseoni, District Nagpur-EC- reg.

Ref: MoEF&CC letter no. J-11015/106/2009-IA.II(M) dated 14.03.2018

Sir,

The undersigned is directed to invite your kind attention on the above subject and letter under reference wherein MoEF&CC granted environment clearance to M/s. Western Coalfields Ltd. for expansion of Gondegaon Opencast Coal Mine Project from 2.5 MTPA to 3.5 MTPA vide letter no. J-11015/106/2009-IA.II(M) dated 14.03.2018. Project Proponent has requested regional office for certification of compliance status of this project. Site visit of this project was carried out by undersigned on 25.09.2019. The following observations were made during site visit.

2. Total Project area is 917 ha (ML area 845.74 ha). Out of 845.74 ha land, 792.08 ha is tenancy land, 53.41ha is government land.
3. No Forest land was involved
4. PP has obtained approval from CGWA for abstraction of groundwater which has valid up to 08.09.2021. Granting CTO was approved by MPCB.

5. Fugitive emission was monitored at one location. The number of monitoring location for fugitive emissions needs to be increased.
6. PP has submitted that no Court cases and show cause notices are pending against this project.

PARTIAL COMPLIANES

Condition no. ii & general condition i under (e): Monitoring of health check up of employees was found to be low against current employees strength. Regular health check up of departmental and contractual employees needs to be improved.

Condition no. vii: Additional Green belt need to provided along the Kanhan river side adjoining to mine lease area, OB area and transportation road near to the agricultural area.

Condition no. viii: PP has submitted report on the impact of riverine ecosystem of Kanhan river carried out by CMPDI. It was observed that five coal mines (WCL) and two thermal power plants (MAHAGENCO) were also existed along the Kanhan river basin. Therefore, the existing study may be extended by NEERI to understand long-term effects by these projects along the Kankan river basin.

General Conditions

(c) Emissions, effluents, and waste disposal

Condition no. viii: Desilting of catch/garland drains need to be improved.

(j) Monitoring report

Condition no.i: As per the report, SPM, PM₁₀ and PM_{2.5} levels were found to be higher than prescribed limits at Ghatronha location. PP has to take necessary step to mitigate the issue.

Condition no. v: As per the report, ground water level was found to be dry in few villages and few parameters of ground water quality was exceeding than the prescribed limits in few locations. PP need to submit action taken plan to mitigate the issues.

This issue with the approval of DDGF Central, MoEF&CC, Nagpur



(Dr. E. Arockia Lenin)

डॉ. ई. अरोकिया लेनि
DR. E. AROCKIA LENIN

वैज्ञानिक "सी"
SCIENTIST 'C'

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forest & Climate Change

केंद्रीय कार्यालय (पश्चिम मध्य क्षेत्र)

Central Office (West Central)

नागपुर / Nagpur-440 001

Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi-110003.

Copy to

1. Additional Director, Monitoring cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi-110003.

2. Director, ROHQ, Ministry of Environment Forest and Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi-110003
3. The General Manager (Environment), M/s. Western Coalfields Ltd., Coal Estate, 9th Floor, Civil Lines, Nagpur-440001, Maharashtra.
4. Guard File.



(Dr. E. Arockia Lenin)

Scientist-C
डॉ. इ. अरोकिया लेनिन
DR. E. AROCKIA LENIN
वैज्ञानिक "सी"
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पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forest & Climate Change
क्षेत्रीय कार्यालय (पश्चिम मध्य क्षेत्र)
Regional Office (WCZ),
नगपुर/Nagpur-440 001

MONITORING REPORT

PART -I

DATA SHEET

1	Project types River-valley/ Mining/ Industry/ Thermal/ Nuclear/ other (specify)	Opencast Coal Mining Project
2	Name of the Project	Expansion of Gondegaon Extension Opencast coal mine project
3	Clearance letter(s)/ OM no. & date	J-11015/106/2009-IA-II(M) dtd.14.03.2018 & subsequently revised on 28.03.2019
4	Location	
	a) District(s)	Nagpur
	b) State (s)	Maharashtra
	c) Latitude	22 ⁰ 16' N – 22 ⁰ 16' N.
	d) Longitude	79 ⁰ 11' E – 79 ⁰ 12' E.
5	Address for correspondence :	
	a) Address of concerned Project Chief Engineer (with pin code & telephone/fax).	Project Officer, Gondegaon OC, Gondegaon Sub-Area, WCL, PO. Gondegaon, Nagpur, Maharashtra.
	b) Address of Executive Project Engineer/ Manager (with pin code/fax nos.)	Area General Manager, WCL, Nagpur Area, P.O. Jaripatka, Nagpur - 440 014, Maharashtra, Ph. (0712) 2643655, FAX (0712) 2643352.
6	Salient features	
(A)	Of the project :	
	Production Capacity	EC Capacity: Normative 2.50 MTPA to Peak 3.50 MTPA.
	Lease hold Area	845.74ha
	Balance Mineable coal reserve	22.19 Mt
	Total OB including access trench	
	Average S/R (m ³ /t)	4.43
	Life of the Project	6 Years as on 01.04.2019
	Quarry area on floor	182.78 Ha
	Quarry Area on Surface	277.13 Ha
	Average strike length on floor	3000 m
	Average thickness of seam	27.72 m
	GCV of coal (0.10m dilution at each contact period)	G-10 (Seam –V & IV) G-8 (Seam-III & II)
	Target production (Mty)	3.50
	Total OB (Mn3)	98.20
	Manpower requirement (nos.)	921
	Overall MOS (t)	14.395
(B)	Of the Environment management plan	
	Public Hearing	Carried out on 26.04.2005 for 2.5 MTPA (For 3.5 MTPA public consultation is exempted)
	Environment clearance	Normative 2.50 MTPA to Peak 3.50 MTPA vide ref no.J-11015/106/2009-IA.II(M)

		Dated 14.03.2018
	Consent to Establish	Issued vide ref no. BO/CAC CELL/UAN NO.0000041397/R/CAC-1804000354 Dated 07.04.2018 for 1 MTPA i.e 2.5 MTPA TO 3.5 MTPA
7	Breakup of the project area	
	Submergence Area : Forest & non-forest area	No Forest area involved
	Non Forest Area	845.74 Ha
	Quarry Area	277.13 Ha
	Embankment Area	13.05 Ha
	External OB Dump Area	323.98 Ha
	Infrastructure	50.00 Ha
	Project township	13.00 Ha
	Area needed for rationalization and blasting zone	146.92 Ha
	Total Land	845.74 Ha
8	<p>Break-up of the project affected population with enumeration of those losing houses/ dwelling units only/agricultural land only, both dwelling units and agricultural land, landless labourers/artisans:</p> <p>a) SC / ST Adivasis :</p> <p>(Please indicate whether these figures are based on any scientific/systematic survey carried out or only provisional; if a survey is carried out give details with year of survey)</p>	<p>Presently land has been purchased and compensation and/ or employment given to land losers as per the norms.</p> <p>Some villagers have already shifted to new Gondegaon Rehab site (19.24 HA), near Kandri village and construction of their new houses is under progress. Also hospital and other amenities are under construction.</p> <p>In addition to compensation for land ousters, total 422 entitled persons have been given employment as per norms. (provisional figures)</p>
9.	Financial details :	
	a) Project Cost as originally planned and subsequent revised estimates and the year of price reference.	Capital Cost of Extension Project Rs. 325.1802 Crores (as per RPR March 2018)
	b) Allocation made for environmental management plans	A. Pollution Control : (Amount in Rs.'000)

	with item wise and year wise break-up.	i) Sedimentation pond for treatment of mine waste water	3500
		ii) ETP for treatment of workshop waste water.	2000
		iii) Base line environmental data generation & scientific studies related to environment	1500
		iv) Dust suppression arrangement at haul road, stockyard, permanent road etc.	2500
		Plantation during first three years.	2000
		DETP for Qtrs.	5000
		v) Land reclamation measures including land use mapping through Remote Sensing.	1200
		Air Monitoring (CAAQMS)	6000
		Total	23700
c)	Benefit cost ratio/Internal rate of Return and the year of assessment.	Financial rate of return IRR = 82.45 % (100%) & 42.09 (85%) Production.	
d)	Whether (c) includes the cost of Environmental management as shown above	Yes.	
e)	Actual expenditure incurred on the project so far (Capital)	267.44 Crores expenditure incurred on project so far (Upto June 2019)	
f)	Actual expenditure incurred on the environmental management so far (Capital)	Capital Expenditure on Environment Management - 191.73 Lakhs as on 30.09.2019.	
10	Forest land requirement: a. the status of approval for diversion of forestland for non-forestry use. b. The status of clearing felling. c. The status of compensatory afforestation programme in the	Not applicable as non-forest land is not involved	

	light of actual field experience.	
11	The Status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads) if any quantitative information	Not Applicable.
12	Status of construction: a. Date of commencement (Actual and /or planned). b. Date of completion (actual and /or planned)	As per approved project report
13	Reasons for delay if project is yet to start	Not Applicable
14	Dates of site visits :	
	a) The dates on which the project was monitored by the Regional Office on previous occasions, if any.	1) A copy of the certificate issued vide letter F.No: EC -766/2018-NGP/4810 dated 21.01.2019 2) A copy of the certificate issued vide letter F.No:3-11/2014(Env.)/3035 Dated 13.12.2017
	b) Date of site visit for this monitoring report	1) Date of site visit 03.01.2019 2) Date of site visit 29.11.2017
15	Details of correspondence with project authorities for obtaining action plans/ inf. on status of compliance to safeguards (other than the routine support for site visits) (The first mon. report letters for logistic may contain the details of all the letters issued so far, but the later reports may cover only the letters issued subsequently)	-

* The above information was submitted by PP.

PART-II

POINT WISE COMPLIANCE STATUS

Sub: Expansion of Gondegaon Extension Opencast Coal Mine Project from 2.5 MTPA to 3.5 MTPA by M/s. Western Coalfields Limited in an area of 917 ha in Village Gondegaon, Tehsil Parseoni, District Nagpur-EC- reg.

Ref: MoEF&CC letter no. J-11015/106/2009-IA.II(M) dated 14.03.2018

S.No.	EC Conditions	Compliance Status
i.	Mitigate measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient number of water sprinklers. Mist type mobile sprayers/ sprinklers shall be deployed for the project.	Being complied PP has taken necessary steps to control dust and other fugitive emissions. Fixed sprinklers were provided at weigh bridge and coal transportation road. Portable sprinklers were provided around coal stock yards. Three water tankers with the capacity of 28KL and two water tankers with the capacity of 12KL and 8KL were provided for haul and coal transportation roads. Coal transportation road were black topped. Avenue plantation was provided all along coal transportation road. As submitted by PP, about 3,93,905 trees were planted in 128.20ha area. Transportation of coal was being carried through tarpaulin-covered trucks. Coal handling plant was provided with enclosures, side claddings and adequate sprinklers.
ii.	Regular monitoring of the occupational and other health hazards of all employees including outsourced workers and the corrective action shall be ensured. Report in this regard is submitted to Regional Office of the Ministry.	Partly complied It was informed that total number of employees of this project was 888 (Departmental employees-770, Contractual employees-118). PP has submitted that Initial Medical examination (IME) has carried out during joining period of the workers. Regular

		<p>health check up has been done once in a five years for below 45 year age workers and once in a year for above 55 years age workers. The year wise IME and PME of departmental and contractual workers are given below.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Initial Medical examination</th> <th>Periodical Medical Examination</th> </tr> </thead> <tbody> <tr> <td>Up to 02.08.2018</td> <td>56</td> <td>133</td> </tr> </tbody> </table> <p>Monitoring of health check up of employees was found to be low against current employees strength. Regular health check up of departmental and contractual employees needs to be improved.</p>	Year	Initial Medical examination	Periodical Medical Examination	Up to 02.08.2018	56	133
Year	Initial Medical examination	Periodical Medical Examination						
Up to 02.08.2018	56	133						
iii.	Control blasting techniques should be adopted to control ground vibration and fly rocks.	<p>Being Complied</p> <p>As submitted by PP, Control blasting was practiced as per DGMS guidelines.</p>						
iv.	Persons of nearby villages shall be given training for their livelihood and skill development.	<p>Being Complied</p> <p>As submitted by PP, Skill development programmes were carried out for persons of nearby villages. Training Programmes such as Data entry operator, machine operator, nursing assistant, para medical assistant, plastic processing machine operator etc., were offered. About 383 persons were trained under this project so far.</p>						
v.	To ensure the health and welfare of nearby villages, regular medical camps shall be organized and report shall be submitted to the Regional Office of the Ministry.	<p>Being Complied</p> <p>Periodical Medical camps were being organised in nearby villagers. Programmes such as Blood donation camp, HIV detection camp, Diabetic detection, Eye camp etc., were offered to the local villagers. As submitted by</p>						

		PP, about 2286 persons were benefited from medical camps.
vi.	Wind barrier wall / screen and vertical greenery system, green belt, dust suppression arrangement at railway siding to be installed.	Being Complied As of now, Coal from the mine was being transported to Railway siding located at Dumri which was located 10.03 Km from the mine. Transportation of coal was being through tarpaulin-covered trucks. As submitted by PP, about 5000 trees were planted at railway siding so far. Truck mounted (mobile) mist spray system and mobile water tanker were provided at railway siding area. Further, PP has submitted that installation of Pipe Conveyor system for transport of Coal from five OC mines of WCL including Gondegaon has also been started by MAHAGENCO. Transportation of coal by railway siding will be completely stopped, once pipe conveyer system is completed.
vii.	Three tier multi-species green belt of not less than 7.5 m width should be developed all along the project to mitigate / check the dust pollution. Only native species to be used for plantation / greenbelt development.	Partly Complied PP has submitted that total 3,93,905 saplings were planted in an area of 128.20 ha. Three tier avenue plantations along the coal transportation road of 8.6 km were provided. Additional Green belt need to provided further along the Kanhan river side adjoining to mine lease area, OB area and transportation road near to the agricultural area.
viii.	In the view of the mining potential of the area and the prevailing environmental concerns, carrying capacity of riverine eco-system shall be studied through some	Partly complied PP has submitted report on the impact of riverine ecosystem of Kanhan river carried out by CMPDI (Annexure-1). It was observed that five coal mines (WCL) and two thermal

	expert agencies to assess impacts on the environmental components.	power plants (MAHAGENCO) were also existed along the Kanhan river basin. The existing study may be continued by NEERI to understand longterm effect of these projects on the Kankan river basin.
ix.	A mitigation plan based on the study to be submitted to the MoEF& CC Regional Office / SPCB and displayed on company's website.	Being Complied Mitigation plan based on the study conducted by CMPDI was submitted to Regional Office.
(a) Mining		
i.	Mining shall be carried out under strict adherence to the provisions of mines act 1952 and subordinate legislations made there-under as applicable.	Being complied Mining was being carried out as per DGMS guidelines.
ii.	No change in the mining method i.e. OC to UG, calendar programme and scope of work shall be made without obtaining prior approval of Ministry of Environment, Forest and Climate Change (MOEF&CC).	Agreed to abide by this condition
iii.	Mining shall be carried out as per the provisions outlined in approved Mining Plan(including Mine Closure Plan) abiding by Mining laws related to the coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Being complied Mining was being carried out as per DGMS guidelines.

iv.	No mining shall be carried out in the forest land without obtaining forestry clearance as per Forest (Conservation) Act, 1980 and also adhering to The Schedule Tribes and other Traditional Forest Dwellers (Recognitions of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.	PP has submitted that forest land was not involved in this project
(b) Land reclamation and water conservation		
i.	Digital survey of the entire lease hold area/core zone using Satellite Remote Sensing Survey shall be carried out regularly in three years for monitoring land use pattern and report in 1:50000 scale shall be submitted to Ministry of Environment, Forest and Climate Change/Regional Office (RO).	Being complied PP has submitted Land use pattern of the mine lease area to Regional office regularly. The latest report was submitted for the year 2017. The same was uploaded on its company website.
ii.	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 diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned	Being Complied The mining activities were being carried at distance of 400 meters (approx.) from the river. Mining was being carried out as per DGMS guidelines. PP has submitted that as per approved mining plan, surface water bodies were not diverted for this project

	State/GOI Authority. The construction of embankment to prevent any danger against in rush of surface water into the mine should be as per approved Mining Plan and permission of DGMS.	
iii.	Final mine void depth should be preferably as per the approved Mine Closure Plan, and in case it exceeds 40 m adequate engineering intervention shall be provided for sustenance of aquatic life therein. The remaining area should be back filled and covered with thick and alive top soil. Post Mining land be rendered usable for agricultural /forestry purposes and shall be handed over to the respective State Government as specifies in the guidelines for Preparations of Mine Closure Plan issued by the Ministry of Coal dated 27-08-2009 and subsequent amendments.	Agreed to comply PP has submitted that total quarry area was 277.13 ha. Out of 277.13 ha, 40 ha will be backfilled and reclaimed, 30 ha will be backfilled up to ground level. Remaining void of 198.13 ha with depth of 176 m is proposed to be converted into water body. As of now, 9.95 ha area were backfilled up to ground level and backfilling of remaining area is under progress.
iv.	The entire excavated area, backfilling, external OB dumping(including top soil) and afforestation plan shall be in conformity with the “during mining”/“post mining” land use pattern, which is an integral part of	Agreed to comply PP has been submitting the information of backfilling external OB dump and afforestation plan along with six monthly compliance reports. PP has submitted that about 9.95 ha area were backfilled till now. About 3,93,905 species were planted in

	<p>the approved Mining plan and the EIA/EMP 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 & Climate Change/ Regional Office on six monthly basis.</p>	<p>128.2ha area so far. PP has submitting six monthly compliance reports regularly.</p>
v.	<p>The top soil shall temporarily be stored at earmarked site(s) only and it shall not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation purpose. Active OB dumps 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 afforestrated in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change on six monthly basis.</p>	<p>Being complied PP has submitted that six OB dumps including one top soil dump were existed in the mining lease area. Top soil is stacked separately. About 3,93,905 species were planted in 128.2ha area so far. Reclamation status was submitted along with six monthly compliance reports to Regional Office regularly. 9.95 ha area were backfilled till now. Backfilling of the remaining area are in progress.</p>
<p>(c) Emissions, effluents, and waste disposal</p>		

i.	<p>Transportation of coal, to the extent permitted by road shall be carried out by covered truck/conveyer. Effective control measures such as regular water/mist sprinkling/rain gun shall be carried out in critical areas prone to air pollution (with higher value of PM10/PM2.5) such as haul road, loading/unloading 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>	<p>Being complied</p> <p>Coal were being transported by trucks. The coal transportation trucks were covered with tarpaulin covers. Sprinklers and mobile water tanker provided at haul road, loading/unloading area, transfer points. Truck mounted (mobile) mist spray system and mobile water tanker were provided at the railway siding. Fugitive emissions were being monitored at one location. Ambient air quality was being monitored. PP has submitted that installation of Pipe Conveyor system for transport of Coal mines to thermal power plant is under progress.</p>
ii.	<p>Green belt consisting of 3 tier plantation of width not less than 7.5 m 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>Being Complied</p> <p>PP has submitted that total 3, 93,905 saplings were planted in an area of 128.20 ha. Three tier avenue plantations along the coal transportation road of 8.6 km were provided. Green plantation along the transportation road was found to be good. However, Green belt needs to be strengthened along the Kanhan river side, near OB area and transportation road near to the agricultural area.</p>
iii.	<p>The 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 the any village shall be</p>	<p>Being Complied</p> <p>Transportation of coal from coal yard to railway siding were carried by trucks. Coal transportation road was black topped. Avenue plantation was provided about 8.6km.</p>

	avoided. In case, it is proposed to construct a 'bypass' road, it should be constructed so the impact of sound, dust and accidents are appropriately mitigated	
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.	Being complied The coal transportation trucks were covered with tarpaulin covers. PP has submitted that trucks used for transporting of the coal were checked for PUC certificate.
v.	Coal stock pile/ crusher /feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors should be fully covered to avoid air borne dust. Side cladding all along the conveyer gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.	Being complied Fixed sprinklers were provided at weigh-bridge, loading/unloading area, transfer points . Coal Handling Plant was provided with enclosures, side claddings and sprinklers. Drills were wet operated only. Portable sprinklers were provided at coal stock yard.
vi.	Coal handing plant shall be operated with effective control measures viz. bag filters /water or mist sprinkling system etc. to check fugitive dust emission from crushing operations, conveyer system, transfer points etc.	Being Complied Coal Handling Plant was provided with enclosures, side claddings and sprinklers. Mist sprinkler system was provided for crushers, conveyors belt, transfer points, bunkers of CHP.

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>Being Complied</p> <p>PP has submitted that Ground water was not used for mining operations. Mine discharge water after treatment was used for mining and domestic purposes. PP has obtained necessary permission from CGWA vide letter no. CGWA/NOC/MIN/ORIG/2019/ 6013 dated 23.09.2019 which has valid upto 08.09.2021. Rain water harvesting structure for building and construction ponds are under progress.</p>
viii.	Catch/garland 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 water bodies. Further, dump material shall be properly consolidated /compacted and accumulation of water over dumps shall be avoided by adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly desilted particularly before on set of monsoon and maintained properly. Sump capacity should also provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilized for dust suppression measures and green belt development. Dimension of the	<p>Partly Complied</p> <p>Catch/garland drains were provided. Desilting of catch/garland drains need to be improved. Sump was provided in the mine area. Mine sump water after sedimentation was used for mining and domestic purposes. Drainage system needs to be improved. Embankment and plantation along the river side need to be strengthened further. Plantation needs to be increased near to the agricultural area.</p>

	retaining wall constructed if any at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of the native species to be made between toe of the dump and adjacent field/habitation/water bodies.	
ix.	Industrial waste water generated from CHP, workshop and other waste water shall be properly collected and treated so as to conform to the standards prescribed under Environment Protection Act 1986 and the rules made there under and as amended from time to time. Oil and grease trap shall be installed and maintained fully functional with effulents discharged adhering to the norms. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste.	Being Complied ETP with Oil & grease trap of 100 KLD capacity was provided. Installation of STP of 250 KLD capacity is yet to be provided.
x.	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.	Being Complied. PP has constructed a pond near Yesamba village. Rooftop rainwater harvesting structure at Gondegaon hostel building is under progress. PP has submitted that excess water was supplied to nearest villages based on their needs. In addition to that about 10.76 Million m ³ for Thermal Power Plants and 28.16 Million m ³ for irrigation purposes were supplied annually from WCL mines.

(d) Illumination, noise & vibration		
i.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. Report on the same shall be submitted to this ministry and its RO on six monthly basis.	Being complied Adequate illumination was provided at mine locations as per DGMS guidelines. Information was submitted along the six monthly compliance reports.
ii.	Adequate measures shall be taken for control of noise levels below 85 dBA(A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. shall be provided with personal protective equipment (PPE) like ear plugs/muffs in conformity with prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.	Being Complied Noise levels were monitored at four locations (Annexure-2). As per the report, noise levels were within limits. Necessary PPEs were provided to Mine workers.
iii.	Adequate measures shall be taken for control of noise levels below 85 dBA(A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. shall be provided with personal protective equipment (PPE)like ear plugs/muffs in conformity with prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in	Being Complied Noise levels were monitored at four locations. As per the report, noise levels were within limits (Annexure-2). Necessary PPEs were provided to Mine workers. Periodical trainings were given to mining workers.

	usage of such accessories to be monitored.							
iv.	Controlled blasting techniques should be practiced in order to mitigate ground vibrations and fly rocks as per the guidelines prescribed by DGMS.	Being Complied PP has submitted that controlled blasting were practiced as per DGMS guidelines						
v.	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 regards shall be submitted to the ministry of /RO on six monthly basis.	Being Complied Noise levels were monitored at four locations. As per the report, noise levels were within limits. Monitoring report was submitted along the six monthly compliance reports (Annexure-2)						
(e) Occupational Health and Safety								
i.	The Project 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 provisions of the Mines Rules, 1955 and DGMS Circulars. Besides 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 hearing impairment, if any.	Partly complied It was informed that total number of employees of this project was 888 (Departmental employees-770, Contractual employees-118). PP has submitted that Initial Medical examination (IME) has carried out during joining period of the workers. Regular health check up has been done once in a five years for below 45 year age workers and once in a year for above 55 years age workers. The year wise IME and PME of departmental and contractual workers are given below. <table border="1" data-bbox="821 1798 1396 1906"> <thead> <tr> <th>Year</th> <th>Initial Medical</th> <th>Periodical Medical</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Year	Initial Medical	Periodical Medical			
Year	Initial Medical	Periodical Medical						

		examination	Examination
		Up to 56 02.08.2018	133
		Monitoring of health check up of employees was found to be low against current employees strength. Regular health check up of departmental and contractual employees needs to be increased.	
ii.	Personnel (including outsourcing employee) working in dusty areas should wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects	Being Complied Necessary PPEs were provided to Mine workers. Periodical trainings were given to the workers.	
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.	Being Complied PP has submitted that skill training were provided to mine workers as per safety norms specified by DGMS	
(f) Ecosystem and biodiversity conservation			
i.	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted in the study area. Action plan in this regard if any shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	Agreed to comply PP need to submit flora and fauna of the surrounding area.	

(g) Public hearing, R&R and CSR		
i.	<p>Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks and measures as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees should be compensated as per the norms laid out in the R&R Policy of the Company/ State Government/Central Government as applicable.</p>	<p>Being complied</p> <p>PP has taken necessary action against issues raised during public hearing. PP has been submitting the information to regional office regarding implementation of issues raised during public hearing along with six monthly compliance reports regularly (Annexure-3).</p>
ii.	<p>The project proponent shall ensure the expenditure towards the socio economic development in and around the mine, in every financial year in pursuance of the Corporate Social Responsibilities as per provisions under section 135 of the Companies Act, 2013.</p>	<p>Being complied</p> <p>PP has submitted that the fund for CSR will be allocated based on 2% of the average net profit of the company for the three immediate preceding financial years or Rs. 2.00 per tonne of coal production of the previous year whichever is higher. It was submitted that Rs. 256.72 lakh were allocated for CSR activities till 2016. The amount were spent for infrastructure, social empowerment, water supply etc.,</p>
iii.	<p>The project proponent shall follow the mitigation measures provided in this Ministries Office Memorandum No.Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects</p>	<p>PP has submitted that no nalla was diverted for this project so far</p>

	wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	
iv.	The Project Proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent shall implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land.	Agreed to abide by this condition
(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 process/procedures to bring into focus any infringements /deviation/violation of the environmental or forest norms/conditions also, the company shall have a defined system of reporting non-compliances/violations of environmental norms to the Board of Directors and/or shareholders /stakeholders.	Complied A separate environment cell was provided to this project. At project level, the environment cell was headed by Sub Area Manager and assisted by Project Nodal Officer (Environment). At area level, the environment cell was headed by Area General Manager and assisted by GM(Op.) and GM (Env.). The hierarchical system of the company to deal with the environment issues was displayed at company website.

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	The hierarchical system of the company to deal with the environment issues was displayed at company website.
iii.	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 not be diverted for other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with six monthly compliance report.	Being Complied Information about fund allocation for environment protection measures were submitted along with six monthly compliance reports to Regional Office of Ministry.
iv.	Self-environment audit shall be conducted annually. Even three years third party environment audit shall be carried out.	Agreed to abide by this condition
(i) Statutory Obligations		
i.	The environmental clearance shall be subject to orders 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 the project.	Agreed to abide by this condition

ii.	This environmental clearance shall be subject to obtaining wide life clearance, if applicable, from the standing committee of National Board for wild life.	No forest area was involved.
iii.	The project Proponent shall obtain Consent to Establish/Operate under the Air Act,1981 and the Water Act, 1974 from the concerned State Pollution Control Board.	Being Complied Consent to Establish (COE) was granted by MPCB. for expansion of Coal Mining activity- 2.5 MTPA to 3.5 MTPA vide UAN no. MPCB-CONSENT-0000041397 dated 07/04/2018. Granting of Consent to Operate (CTO) was approved by MPCB.
iv.	The Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority.	Being Complied PP has obtained necessary permission from CGWA vide letter no. CGWA/NOC/MIN /ORIG/2019/6013 dated 23.09.2019 which has valid upto 08.09.2021
(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 monitoring of the pollutants, namely PM10, PM2.5, SO2 and NOx. Location of the station shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular	Partly Complied Ambient air quality was monitored at four locations. i.e. i. Colony, ii. Ghatronha village, iii. Gondegaon village school, iv. Near substation. Parameters of SPM, PM ₁₀ , PM _{2.5} , NO _x , SO _x were monitored (Annexure-2). As per the report, SPM, PM ₁₀ and PM _{2.5} levels were found to be higher than permissible limits at Ghatronha location. PP has to take necessary step to mitigate the issue. Heavy metals were monitored at four locations. As per the report, the emission level was within prescribed standards.

	monitoring stations as per the requirement and/ or in consultation with the SPCB. Monitoring of the heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.	
ii.	The ambient air quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standard notified vide under GSR 742 (E) dated 25.09.2000 and amended from time to time by Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr, etc. and other monitoring data shall be regularly reported to the Ministry/ Regional Office and to the CPCB/SPCB.	<p>Partly Complied</p> <p>Ambient air quality was monitored at four locations. i.e. i. Colony, ii. Ghatrohna village, iii. Gondegaon village school, iv. Near substation. Parameters of SPM, PM₁₀, PM_{2.5}, NO_x, SO_x were monitored(Annexure-2). As per the report, SPM, PM₁₀ and PM_{2.5} levels were found to be higher than permissible limits at Ghatronha location. PP has to take necessary step to mitigate the issue. Heavy metals were monitored at four locations. As per the report, the emission level was within prescribed standards. All the information along with six monthly compliance reports was submitted to regional office.</p>
iii.	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 Central Pollution Control Board.	Agreed to abide by this condition
iv.	The monitoring data shall be uploaded on the company website and displayed at the project site at a suitable location. The circular no.J-	<p>Being Complied</p> <p>Environmental monitoring reports were uploaded on company website and displayed at the project site regularly.</p>

	20012/1/2006/1A.11(M) dated 25.09.2000 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	
v.	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 of ground water level shall be carried four times in a year pre- monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year and the data thus collected shall be sent regularly to Ministry of Environment, Forest and Climate Change /Regional Office.	Partly complied PP has submitted that monitoring of ground water level was carried out four times in a year. Monitoring of ground water quality was carried out at once in a year. (Annexure-4). As per the report, ground water level was found to be dry in few villages and few parameters of ground water quality was exceeding than the prescribed limits. PP need to submit action taken plan to mitigate the issues.
vi.	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in 6 months and record of monitoring data shall be maintained and submitted to Ministry of Environment, Forest and Climate Change /Regional Office.	Being complied PP has submitted that one upstream (sangham) and one downstream location (mine discharge point, near Juni location) were monitored for water quality. As per the report, the quality of water was within prescribed standards (Annexure-5).
vii.	Project proponent shall submit six monthly reports on the status of the implementation of the stipulated environment conditions to the	Being complied Six monthly compliance reports were submitted to regional office regularly.

	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.	
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.	Agreed.
(k) Miscellaneous		
i.	Efforts should be made to reduce energy consumption by conservation, efficiency, improvements and use of renewable energy.	Agreed.
ii.	The project authorities shall inform to the Regional Office regarding commencement of the mining operations.	Complied Information was submitted along with six monthly compliance reports.
iii.	A copy of Environment clearance letter shall be marked to concern Panchayat. A copy of the same shall be sent to the concerned State Pollution Control Board, Regional Office, District Industry Sector and	Complied PP has submitted that a copy of EC was marked to local panchayat.

	Collector's Office/ Tehsildar Office for information in public domain within 30 days.	
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 public domain.	Complied Environmental Clearance letter and six monthly reports were uploaded on the company website.
v.	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.	Complied Advertisements were local newspapers within the stipulated period. i) Lokmat Times (English) dated 02-04-2019, ii) Lokmat (Marathi) dated 02-04-2019

vi.	The Environmental Statement for each financial year ending 31 March in Form-V is mandated to be submitted by the Project Proponent 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. Concerns raised during public hearing.	Being Complied PP has submitted that Environment statement was submitted to MPCB regularly. The same was uploaded in the company website. All the information were submitted along with six monthly compliance report to regional office regularly.
vii.	The above conditions will be enforced inter alia under the provision of the Water Act, 1974 and Air Act, 1981, Environment Protection Act, 1986 and the Public Liability Insurance 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.	Agreed to abide by this condition



(Dr. E. Arockia Lenin)

Scientist C
डॉ. इ. अरोकिया लेनिन
DR. E. AROCKIA LENIN
वैज्ञानिक "सी"
SCIENTIST 'C'

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पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forest & Climate Change
देशीय कार्यालय (पश्चिम मध्य क्षेत्र)
राज्य कार्यालय (महाराष्ट्र)
राज्य कार्यालय (महाराष्ट्र)

SUMMARY NOTE

MoEF&CC granted environment clearance to M/s. Western Coalfields Ltd. for expansion of Gondagaon Opencast Coal Mine Project from 2.5 MTPA to 3.5 MTPA vide letter no. J-11015/106/2009-IA.II(M) dated 14.03.2018. Project Proponent has requested regional office for certification of compliance status of this project. Site visit of this project was carried out by undersigned on 25.09.2019. The following observations were made during site visit.

2. Total Project area is 917 ha (ML area 845.74 ha). Out of 845.74 ha land, 792.08 ha is tenancy land, 53.41ha is government land.
3. No Forest land was involved
4. PP has obtained approval from CGWA for abstraction of groundwater which has valid up to 08.09.2021. Granting CTO was approved by MPCB.
5. Fugitive emission was monitored at one location. The number of monitoring location for fugitive emissions needs to be increased.
6. PP has submitted that no Court cases and show cause notices are pending against this project.

PARTIAL COMPLIANES

Condition no. ii & general condition i under (e): Monitoring of health check up of employees was found to be low against current employees strength. Regular health check up of departmental and contractual employees needs to be improved.

Condition no. vii: Additional Green belt need to provided along the Kanhan river side adjoining to mine lease area, OB area and transportation road near to the agricultural area.

Condition no. viii: PP has submitted report on the impact of riverine ecosystem of Kanhan river carried out by CMPDI. It was observed that five coal mines (WCL) and two thermal power plants (MAHAGENCO) were also existed along the Kanhan river basin. Therefore, the existing study may be extended by NEERI to understand long-term effects by these projects along the Kankan river basin.

General Conditions

(c) Emissions, effluents, and waste disposal

Condition no. viii: Desilting of catch/garland drains need to be improved.

(i) Monitoring report

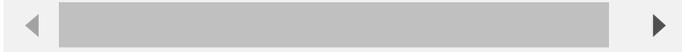
Condition no.i: As per the report, SPM, PM₁₀ and PM_{2.5} levels were found to be higher than prescribed limits at Ghatronha location. PP has to take necessary step to mitigate the issue.

Condition no. v: As per the report, ground water level was found to be dry in few villages and few parameters of ground water quality was exceeding than the

Subject: **ATR for the WCL - Expansion of Gondagaon Extension of OC Coal Mine Project**

To: arockia.lenin@gov.in

Cc: agmnagpur@westerncoal.gov.in,
gmenvironment <gmenvironment@westerncoal.gov.in



Date: 12/23/19 01:04 PM

From: environment department <wclngpenv@gmail.com>

ATR CCR- Gondagaon OC (1).pdf (1.5MB)

Dear Sir,

EC Compliance report has been received from RO, MoEF & CC, Nagpur vide its letter no. EC -766 /RON / 2018/NG/ 6001 dated 20.12.2019. There is no "Non – Compliance" recorded in the said report. There are few partial compliance and as advised all efforts will be taken for improvement of the same.

Please find enclosed point wise Action taken report for the partial compliance of the said mine.

ATR
Against
Partial Compliance

WCL - Expansion of Gondegaon Extension of OC Coal Mine Project

EC Compliance report has been received from RO, MoEF & CC, Nagpur vide its letter no. EC -766 /RON / 2018/ NG/ 6001 dated 20.12.2019. There is no "Non – Compliance" recorded in the said report. There are few partial compliances and as advised all efforts will be taken for improvement of the same.

The pointwise action taken report on the partial compliance reported is placed below:

Sl.No	Condition	Observation of MoEF & CC	Action Taken Report																																																							
ii	Regular monitoring of the occupational and other health hazards of all employees including outsourced workers and the corrective action shall be ensured. Reports in this regard is submitted to Regional Office of the Ministry	<p>Partial Compliance</p> <p>Monitoring of Health Check up of employees was found to be low against current employees strength. Regular health check up of departmental and contractual employees needs to be improved.</p>	<p>As per the Statute, Monitoring of health condition of employees is a regular activity. In this regard, Initial Medical Examination (IME) is carried out during joining period of the every worker. Periodical Medical Examination (PME) is done once in five years for below 45 years age workers and once in three year for 55 years and above aged workers.</p> <p>The status (as on date) Monitoring of Health check up of the employees at Gondegaon OCP are as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th colspan="4" style="text-align: center;">Departmental</th> <th colspan="2" style="text-align: center;">HOE contractual</th> </tr> <tr> <th style="text-align: center;">Year</th> <th style="text-align: center;">Manpower / Total on roll</th> <th style="text-align: center;">PME Target</th> <th style="text-align: center;">PME Done</th> <th style="text-align: center;">IME Done</th> <th style="text-align: center;">Manpower / Total on roll</th> <th style="text-align: center;">IME Done</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2015</td> <td style="text-align: center;">610</td> <td style="text-align: center;">203</td> <td style="text-align: center;">221</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">2016</td> <td style="text-align: center;">619</td> <td style="text-align: center;">205</td> <td style="text-align: center;">207</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">2017</td> <td style="text-align: center;">694</td> <td style="text-align: center;">207</td> <td style="text-align: center;">237</td> <td style="text-align: center;">24</td> <td style="text-align: center;">85</td> <td style="text-align: center;">85</td> </tr> <tr> <td style="text-align: center;">2018</td> <td style="text-align: center;">716</td> <td style="text-align: center;">208</td> <td style="text-align: center;">231</td> <td style="text-align: center;">07</td> <td style="text-align: center;">112</td> <td style="text-align: center;">112</td> </tr> <tr> <td style="text-align: center;">2019 (as on 01.12.2019)</td> <td style="text-align: center;">750</td> <td style="text-align: center;">248</td> <td style="text-align: center;">259</td> <td style="text-align: center;">41</td> <td style="text-align: center;">119</td> <td style="text-align: center;">119</td> </tr> </tbody> </table> <p>From the above it may be seen that, the Statutory requirement in respect of the health checkup of the workers (Both departmental and contractual) are being done achieving the target. The same will continue to be carried out during the balance life of the mine.</p>								Departmental				HOE contractual		Year	Manpower / Total on roll	PME Target	PME Done	IME Done	Manpower / Total on roll	IME Done	2015	610	203	221	-	-	-	2016	619	205	207	-	-	-	2017	694	207	237	24	85	85	2018	716	208	231	07	112	112	2019 (as on 01.12.2019)	750	248	259	41	119	119
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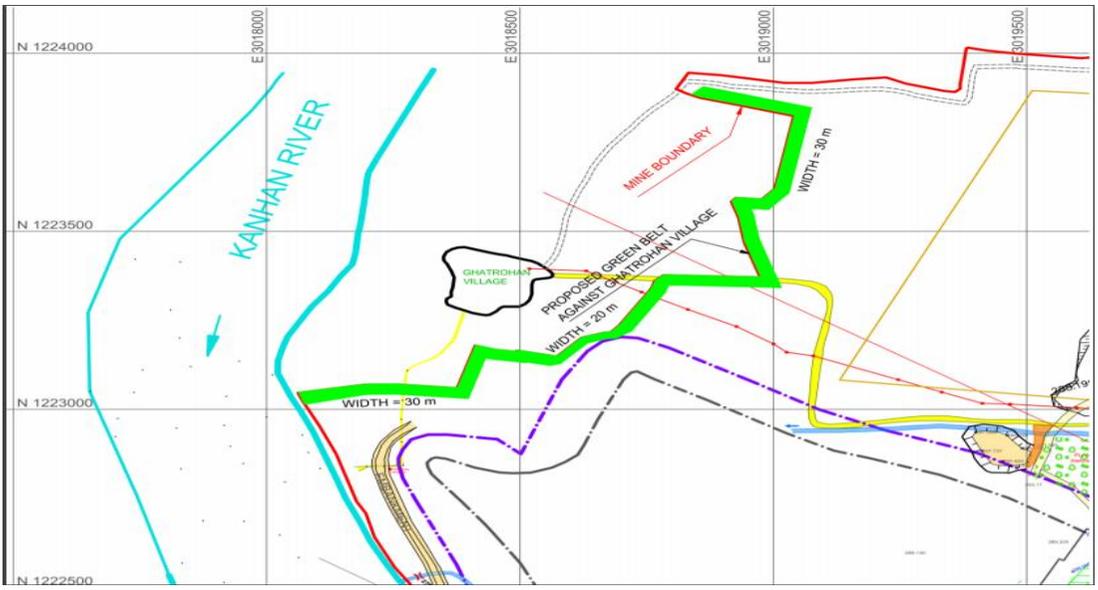
Sl.No	Condition	Observation of MoEF & CC	Action Taken Report
vii	Three tier multi species green belt of not less than 7.5 m width should be developed all along the project to mitigate / check the dust pollution. Only native species to be used for plantation / green belt development	<p>Partial Compliance</p> <p>Additional Green belt need to provided along the Kanhan river side adjoining to mine lease, OB area and transportation road near to the agricultural area.</p>	<p>Existing :</p> <p>In order to check /mitigate dust pollution, Bamboo Plantation / thick green belt has been carried out on either side of the coal transportation road with 9500 nos of plant saplings.</p>  

Sl.No	Condition	Observation of MoEF & CC	Action Taken Report
			<p data-bbox="929 130 1556 162">OB dumps reclaimed with thick plantation :</p>  

Sl.No	Condition	Observation of MoEF & CC	Action Taken Report
			<p data-bbox="927 130 2047 204">In order to check /mitigate dust pollution, Automatic Road Sweeping machine with water jet spraying arrangement has been deployed.</p>  

Sl.No	Condition	Observation of MoEF & CC	Action Taken Report
			<p>Ongoing : The installation of Pipe Conveyor system for transport of Coal from five OC mines of WCL including Gondegaon has also been started by MAHAGENCO. After commissioning of the same, the transport of coal by road will be completely eliminated.</p> <div data-bbox="929 316 1930 1401"> <p>PIPED CONVEYOR COAL SUPPLY</p> <p>Mines: Koradi, Bhanegaon, Inder, Singori, Gondegaon, Kamptee</p> <p>Thermal Power Stations: Koradi and Khaparkheda</p> <p>Map not to scale</p> <ul style="list-style-type: none"> ➤ Coal comes to Mahagenco thermal power stations through trucks, rail rakes ➤ Project will enable coal supply from five coal mines – Inder, Kamptee, Gondegaon, Bhanegaon and Singori – to Koradi and Khaparkheda thermal power stations through conveyor belt that will be covered from top ➤ Main line to be erected between Gondegaon coal mine and Koradi and Khaparkheda thermal power stations ➤ Belts from remaining four coal mines to be connected to the main line ➤ Total length of main and connecting lines to be 16.1km ➤ 1,200 metric tonne coal can be transported in one hour ➤ Coal transportation can be done for 14 hours in a day ➤ Target is to transport 7.35 million tonne coal in a year ➤ Project's cost is ₹443.91 crore and to be borne by Mahagenco </div>

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			<div data-bbox="929 127 1108 406" style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>Latitude: 21.260098 Longitude: 79.103955 Elevation: 281.35m Accuracy: 3.2m Time: 08-08-2019 13:25 Note: Emt deplt nagpur Area wcl</p> </div>  <p>Proposed :</p> <p>As advised, in order to reduce the contribution from mining and allied activities at Gondegaon OC towards dust pollution, it is proposed to develop additional Green Belt along the mine boundary facing Kanhan river. This green belt will be developed of mixed and native species through state level expert forest agency in the coming monsoon of 2020-21. The width of the Green Belt will be 30m all along a length of about 2000 m. This width of 30 m will get reduced to 20 m only for 100 m patch near the mine working. Thus total length would be covered with total no. of about 14000 ~ 15000 nos. of trees.</p>

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			<p>Budget :- The plantation will be taken up under revenue budget of the mine with cost of about 4.5 ~ 5.0 Lakh with 4 years maintenance after year of plantation.</p> <p>Time Line :- By October 2020.</p> 
viii.	<p>In the view of the mining potential of the area and the prevailing environmental concerns, carrying capacity of riverine eco system shall be studied through some expert agencies to assess impacts on the environmental components</p>	<p>Partial Compliance</p> <p>PP has submitted report on the impact of riverine ecosystem of Kanhan river carried out by CMPDI. It was observed that five coal mines (WCL) and two thermal power plants (MahaGenco) were also existed along Kanhan river</p>	<p>In the view of the mining potential of the area and the prevailing environmental concerns, carrying capacity of riverine eco system of Kanhan river was carried out by CMPDI to assess impacts on the environmental components. It was observed that five coal mines (WCL) and two thermal power plants (MahaGenco) were also existed along Kanhan river basin.</p> <p>As directed by RO, MoEF & CC, Nagpur, the study will be extended by NEERI to understand long term effects by these projects along the Kanhan river basin.</p> <p>The approximate time line 18 months covering four season data generation and submission of report.</p> <p>The same will be carried out under revenue head.</p>

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c viii	Catch / garland drain 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 water bodies. Further, dump material shall be properly consolidated / compacted and accumulation of water over dumps shall be avoided by adequate channels for flow of silt into the drains. The drains / ponds so constructed shall be regularly desilted particularly before on set of Monsoon	Partial Compliance Desilting of catch / garland drains need to be improved.	<p>Catch / garland drains are essential part of the mining activity. The same are constructed around the OB dump as well as around the quarry so as to arrest the flow of silt and sediments during monsoon which prevents the adverse impact on the surface water courses. To maintain the effectiveness of the garland drains and catch drains, desilting is done every year before onset of monsoon. The details of desilting done in last four years is given below.</p> <table border="1" data-bbox="931 687 2040 938"> <thead> <tr> <th>Year</th> <th>Length of the garland drain (in km)</th> <th>New drain cleaning / making (in km)</th> <th>Total quantity (in cu.m) approx..</th> </tr> </thead> <tbody> <tr> <td>2016</td> <td>13.00</td> <td>9.48 + 3.52 = 13.00</td> <td>48290.00</td> </tr> <tr> <td>2017</td> <td>12.72</td> <td>8.63 + 4.09 = 12.72</td> <td>56228.00</td> </tr> <tr> <td>2018</td> <td>12.72</td> <td>8.63 + 4.09 = 12.72</td> <td>37133.88</td> </tr> <tr> <td>2019</td> <td>17.02</td> <td>11.02 + 6.00 = 17.02</td> <td>54375.00</td> </tr> </tbody> </table> <p>The visit was conducted in the last week of September, 2019 when the collected silt material (all collected during the monsoon runoff of 2019) was observed. It may be mentioned here that, the desilting work will be continued next year during the summer months of 2020 before onset of monsoon and it is also statutory requirement because in addition to the aforesaid purpose it also protects the mine from the danger of surface inundation. It is confirmed that that the very purpose of the catch / garland drains will continue to remain effective during the entire life of operation of the mine.</p>	Year	Length of the garland drain (in km)	New drain cleaning / making (in km)	Total quantity (in cu.m) approx..	2016	13.00	9.48 + 3.52 = 13.00	48290.00	2017	12.72	8.63 + 4.09 = 12.72	56228.00	2018	12.72	8.63 + 4.09 = 12.72	37133.88	2019	17.02	11.02 + 6.00 = 17.02	54375.00
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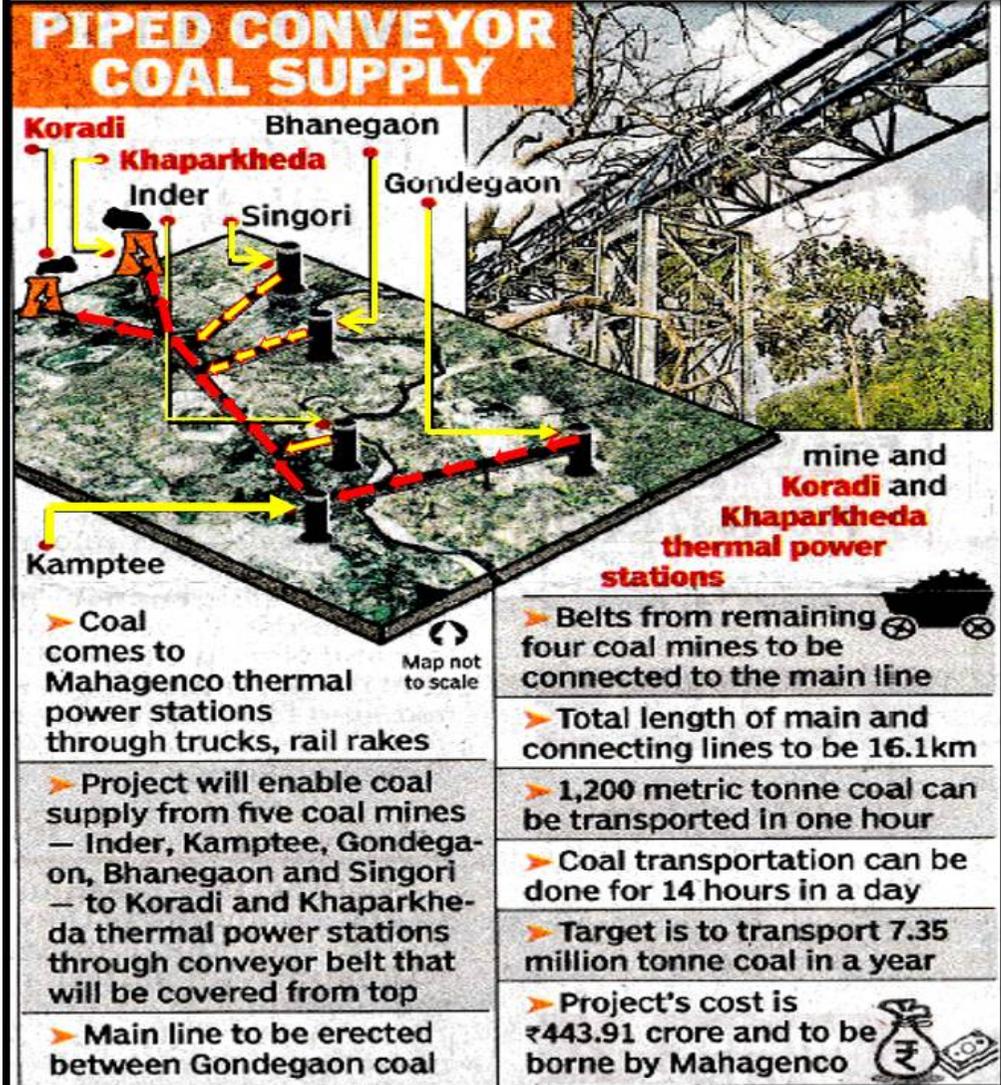
Sl.No	Condition	Observation of MoEF & CC	Action Taken Report
	<p>and maintained properly. The sump capacity should also provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilized for dust suppression measures and green belt development. Dimension of the retaining wall constructed if any at toe of the dumps within the mine to check runoff and siltation should be based on rainfall data. The plantation of the native species to be made between toe of the dump and adjacent field / habitation / water bodies.</p>		
e i.	<p>The project proponent shall undertake an occupational health survey for initial and regular periodical medical examination of workers engaged in the project and maintain records</p>	<p>Partial Compliance Monitoring of Health Check up of employees was found to be low against current employees strength. Regular health check up of departmental</p>	<p>As per the Statute, Monitoring of health condition of employees is a regular activity. In this regard, Initial Medical Examination (IME) is carried out during joining period of the every worker. Periodical Medical Examination (PME) is done once in five years for below 45 years age workers and once in three year for 55 years and above aged workers.</p>

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	<p>accordingly as per provisions of the mines rules, 1955 and DGMS circulars. Besides being regular periodic checkup, 20% of workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupational disease and hearing impairment if any.</p>	<p>and contractual employees needs to be improved.</p>	<p>The status (as on date) Monitoring of Health check up of the employees are as follows:</p> <table border="1" data-bbox="929 199 1971 590"> <thead> <tr> <th></th> <th colspan="4">Departmental</th> <th colspan="2">HOE contractual</th> </tr> <tr> <th>Year</th> <th>Manpower / Total on roll</th> <th>PME Target</th> <th>PME Done</th> <th>IME Done</th> <th>Manpower / Total on roll</th> <th>IME Done</th> </tr> </thead> <tbody> <tr> <td>2015</td> <td>610</td> <td>203</td> <td>221</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>2016</td> <td>619</td> <td>205</td> <td>207</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>2017</td> <td>694</td> <td>207</td> <td>237</td> <td>24</td> <td>85</td> <td>85</td> </tr> <tr> <td>2018</td> <td>716</td> <td>208</td> <td>231</td> <td>07</td> <td>112</td> <td>112</td> </tr> <tr> <td>2019 (as on 01.12.2019)</td> <td>750</td> <td>248</td> <td>259</td> <td>41</td> <td>119</td> <td>119</td> </tr> </tbody> </table> <p>From the above it may be seen that, the Statutory requirement in respect of the health checkup of the workers (Both departmental and contractual) are being done achieving the target. The same will continue to be carried out during the balance life of the mine.</p>								Departmental				HOE contractual		Year	Manpower / Total on roll	PME Target	PME Done	IME Done	Manpower / Total on roll	IME Done	2015	610	203	221	-	-	-	2016	619	205	207	-	-	-	2017	694	207	237	24	85	85	2018	716	208	231	07	112	112	2019 (as on 01.12.2019)	750	248	259	41	119	119
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<p>j. i.</p>	<p>Adequate ambient air quality monitoring stations shall be established in the core zone and in the buffer zone for monitoring of the pollutants, namely PM 10, PM 2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive target in</p>	<p>Partial Compliance</p> <p>As per the report, SPM, PM10, PM 2.5 levels were found to be higher than prescribed limits of Ghatronha Location. PP has to take necessary steps to mitigate the issue.</p>	<p>Existing :</p> <p>In order to mitigate/ check dust pollution, plantation / thick green belt has been carried out on either side of the coal transportation with 9500 nos of Bamboos.</p>																																																							

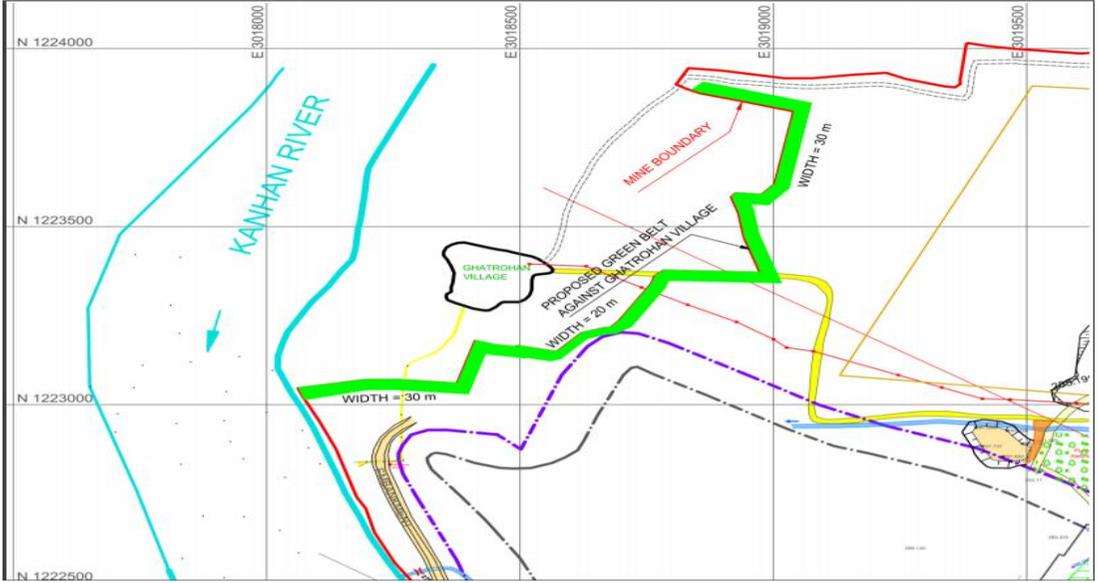
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	<p>consultation with State pollution control board. Online ambient air quality monitoring stations may also be installed in addition to be regular monitoring stations as per requirement and/ or in consultation with SPCB. Monitoring of the heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.</p>		 <p>The top photograph shows a long, straight asphalt road flanked by dense, tall green bamboo plants. A person on a motorcycle is riding away from the camera in the distance. In the background, there are some trees and utility poles under a clear sky. The bottom photograph is a closer view of the same road, showing the texture and height of the bamboo plants lining both sides.</p>

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			<p data-bbox="929 130 1556 162">OB dumps reclaimed with thick plantation :</p>  

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j. v.	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 mining operations. The monitoring of	<p>Partial Compliance</p> <p>As per report, ground water level was found to be dry in few villages and few parameters of ground water quality was exceeding than the prescribed limits in few locations. PP need to submit action taken plan to</p>	<p>The ground water level monitoring is being carried out four times a year and ground water quality analysis is being done one time a year in 25 number of dugwells located in the buffer zone of Gondegaon Extn. OC Expn. Mine. As per the ground water level data, out of these 25 dugwells only 2 number of dugwells that are B-4 (situated at Waghoda Village), B-13 (situated at Hingna Village) became dry during May'18 and B-23 (situated at Khaperkhera town) became dry during Jan'19. However, during the onset of monsoon period these wells were recharged and regained water levels.</p> <p>The said dugwells: B-4, B-13 and B-23 are situated at a considerable distance of about 3.5 km in NNW direction, 5km in NW and 3.5 km in W direction respectively from the mine boundary.</p>

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	<p>the ground water level shall be carried four times in a year Pre-monsoon, monsoon, post-monsoon, winter. The ground water quality shall be monitored once in a year and data thus collected shall be sent regularly to Ministry of Environment, Forest and climate change / regional office.</p>	<p>mitigate the issues.</p>	<p>However, as per estimation the mining influence on ground water would be upto 1 Km from quarry boundary. Moreover, there is presence of major rivers (Pench and Kanhan) which acts as a barrier and terminates the impact of mine on ground water and these dugwells are located beyond the major rivers (Pench and Kanhan).</p> <p>As such, the above said dugwells may have dried up due to reasons beyond mining activities and only due to excessive draft of ground water for domestic as well as for irrigation purpose. Further due to the occurrence of rainfall below average in last 2-3 years, the wells even in non-mining area have been affected with lowering of water table causing the drying of wells. However, WCL will continue to monitor water level and quality data in the buffer zone of mine area and if there will be water level depletion in the villages near to the mine influence area the project authority will take the suitable measures for making up artificial recharge structure for augmenting the same.</p>