EXPANSION OF UMRER OC PROJECT
UMRER AREA, WCL

EC FOR ENHANCEMENT OF CAPACITY FROM 3.50 MTPA TO 4.90 MTPA (40%) WITHIN EXISTING LAND AREA OF 944.65 HA UNDER PROVISIONS OF 7(ii) OF EIA NOTIFICATION 2006

(Submitted against the Observation of MoEF&CC communicated vide e-mail dated 19th September, 2018)

September, 2018
WESTERN COALFIELDS LIMITED
NAGPUR
Sub:- EC for Expansion of Umrer OC Project for enhancement of capacity from 3.50 MTPA to 4.90 MTPA within existing EC sanctioned area of 944.65 ha under provisions of 7(ii) of EIA Notification, 2006.

Ref: i) E mail dated 19th September, 2018

ii) 36th EAC meeting held on 31-08-2018 and subsequent approved minutes of the meeting.

1. Introduction:

i. Based on the Mining Plan approved by WCL Board vide letter dated 31-05-2018, application for EC for Expansion of Umrer OC for enhancement of capacity from 3.50 MTPA to 4.90 MTPA in existing area of 944.65 ha under clause 7(ii) of EIA Notification, 2006 was submitted through online portal of MoEF & CC vide dated 20-07-2018.

ii. The EAC considered the proposal in its 36th EAC meeting held on 31-08-2018.

2. EAC Meeting:

After detailed deliberation in the meeting, the Expert Committee observed the following as recorded in the published Minutes of Meeting:

Quote

36.5.3
(i) Public notice to be issued in leading newspapers (one national and two local) for information of the stakeholders about commencement of the project and present coal mining operations of capacity 3.50 MTPA in mine lease area of 944.65 ha, inviting comments and their redressal.

(ii) Valid Mining Plan and the Mine Closure Plan duly approved by the competent authority,

(iii) Compliance status of the conditions stipulated in the environmental clearance dated 20th May, 2005 from the Regional Office at Nagpur,

(iv) Consent to operate from the State Pollution Control Board for the present mining operations,

(v) Redressal of issues raised during the last public hearing conducted by the SPCB on 23rd September, 2004, along with the R&R details duly certified by the State Government,

(vi) Details of court cases and the compliance status

Unquote

3. Submission:

Subsequently, in response to the e-mail dated 19th September, 2018, following is submitted for kind consideration


Point wise compliance of EAC directions is given below:
Point (i). Public notice to be issued in leading newspapers (one national and two local) for information of the stakeholders about commencement of the project and present coal mining operations of capacity 3.50 MTPA in mine lease area of 944.65 ha, inviting comments and their redressal.

Compliance: Public notice has been published in leading newspapers namely, Business Standard (English), The Hitavada (English) and Navbharath (Hindi) on 07-08-2018 for inviting comments from stakeholders within 30 days from the date of publication. Compliance along with public notice is enclose below (Fig 1 & 2)

Fig1: Compliance of Public Notice

Regd. Office: Coal Estate, Civil Lines, Nagpur 440 001
CIN of WCL: U10100MH1975GOC001825
Website: westerncoal.nic.in

Ref No. WCL/SAM/USA/ENVT/2018/ 653

To,
General Manager (Env)\HOD
HQ WCL
Nagpur

Sub: Compliance of the minutes of 34th meeting of the EAC held on 24/07/2018

Dear Sir,

With reference to the aforementioned subject, this is to inform that, in compliance of the agenda item No: 34.4 for revalidation of EC in respect of Ummer OCM, Ummer Area, against point no: 34.4.4 (i) "Public notice to be issued in leading newspapers (one national and two local) for information of the stakeholders about commencement of the project and present coal mining operations of capacity 3.50 MTPA in mine lease area of 944.65 ha, inviting comments and their redressal", comments from stakeholders were invited by publishing the notice in one national newspaper viz. Business standard and two local newspapers viz. The Hitavada (English) and Navbharat (Hindi) (copy enclosed), dated 07/08/2018. A time period of 30 days from the date of publication of the notice i.e. 07/08/2018 to 06/09/2018 was given to stakeholders to submit their suggestions to nieva88672@coa.india.in or rshelke@westerncoal.gov.in on email or to submit their comments to the following postal address:

- Sub Area Manager, Ummer sub area, Ummer Area, WCL, P.O. Ummer, Dist. Nagpur, Pin: 441204 (M.S)
- Area Nodal Officer (Env), O/o Area General Manager, Ummer area, WCL, Tehsil: Ummer, Dist: Nagpur, Pin: 441204 (M.S.)

Against this, no email (inbox copy enclosed) /letter/ comments/suggestions were received from the stakeholders within the given time period (07/08/2018 to 06/09/2018).

However, this is to submit that all efforts shall be made to comply with the issues raised by the villagers in future also based on extant norms/ rules & regulations of company. Under CSR activities various measures will be taken for meeting the needs of local communities.

This is for your kind information and further necessary course of action.

Thanking you.

Encl: As above

Yours faithfully,

Sub Area Manager
Ummer Sub Area
Ummer Area

C/c:
- Area General Manager, Ummer Area
- GM (Operation) WCL, Ummer Area
- Area Nodal Officer, Ummer Area
Figure 2: Public Notice

a. Business Standard

b. The Hitavada
Point (ii). Valid Mining Plan and the Mine Closure Plan duly approved by the competent authority
Compliance: The mining plan for the production capacity of 4.90 MTPA within the existing ML area of 944.65 ha has been approved by WCL board in its 300th meeting held on 24-05-2018 as communicated vide letter no WCL/BD/SECTT/BM-300/2018/93 dated 31-05-2018. The aforesaid mining plan has in-built mine closure plan also. Copy of Board Approval letter is placed as Fig.3
Fig. 3: Mining Plan Approval

Reproduced below is the relevant excerpt from the minutes of 300th meeting of the Board of Directors of WCL held on 24th May, 2018.

"ITEM NO. 300/ C-15
SUB Approval for mining plan for obtaining environmental clearance from MOEF&CC to enhance capacity from 3.5 to 4.9 MTPA of Umriar Open Cast Mine, Umriar Area.

i) While deliberating on the subject, Shri T.N. Jha, Director (Tech) P&P WCL apprised the Board that the capacity of Umriar OC Mine was enhanced from 2.34 MTPA to 3.50 MTPA and environmental clearance of 3.50 MTPA was obtained accordingly. Due to increase in demand from power and industrial sector and also considering the existing potential of the mine, the annual target is enhanced to 4.30 MTPA. It is proposed to obtain enhanced Environment Clearance of 4.90 MTPA.

ii) In view of above, the Board, after deliberation approved the proposal for mining plan for obtaining Environmental Clearance from MOEF&CC to enhance capacity from 3.50 to 4.90 MTPA of Umriar Open Cast Mine, Umriar Area.

iii) GM (P&P) to take necessary action in the matter."

GENERAL MANAGER (P&P)

CC: DIRECTOR (TECHNICAL) CP
DIRECTOR (PERSONNEL)
DIRECTOR (FINANCE)
DIRECTOR (TECHNICAL) P&P
Point (iii): Compliance status of the conditions stipulated in the environmental clearance dated 20th May, 2005 from the Regional Office at Nagpur

Compliance: Compliance certification against existing EC condition has been secured from Regional Office, MoEF & CC, Nagpur vide letter dated 22-06-2018.

To,

Scientist 'E'
IA Division (Coal Mining)
Ministry of Environment, Forest & Climate Change
Indira Paryavaran Bhawan,
Aliganj, Jorbagh Road,
New Delhi-110003

Sub: Environmental clearance granted for Ummer Opencast Expansion Project of Western Coalfields Limited at village Kanhwa, Tehsil Ummer, Nagpur District of Maharashtra

Ref:

Sir, I am directed to invite your kind attention on the above subject and letter under reference. Monitoring report of compliance to conditions stipulated in Environmental clearance granted for Ummer Opencast Expansion Project of Western Coalfields Limited at village Kanhwa, Tehsil Ummer, Nagpur District of Maharashtra is enclosed herewith. Site inspection has been carried out on 07.06.2018.

Ministry granted environmental clearance for the project vide letter dated 20.03.2005 for a production for the expansion of production capacity from 2.34 million tonnes per annum to 3.50 million tonnes per annum in mine lease area of 944.65 ha. As per the information provided, 34, 99,917 tonnes of coal has been produced in the FY 2017-18. Dust suppression system has been provided at coal handling area, haul roads, coal storage yards. 150 KLD effluent treatment plant has been provided for the treatment of workshop effluent.

Automatic truck washing system has been provided for all the trucks leaving the lease area. Monitoring of environmental quality parameters is being carried out through CMPDIL. An area of 106.005 ha. (Excavated area) has already been backfilled with OB. As per the information provided plantation has been developed over an area of 231 ha.

Following conditions were partially compiled:

Specific Condition no. xii:
PA submitted that no downfall has been observed in ground water levels through regular monitoring.
PA needs to create water retaining structures in nearby villages to boost the ground water levels in the nearby area.
Specific Condition no. xiii:
Sewage treatment plan for the colony is yet to be operational.

General Condition no. v:
Fugitive emission levels found to be higher than the prescribed standards.

General Condition no. vi:
Noise levels are being monitored only at two locations. Monitoring locations need to be increased covering working areas such as drilling, active mine bench, etc.

General Condition no. xvi:
Advisement has been made, however the clause of seven days was not followed.

This issues with the approval of APCCF(Central), Regional Office, Nagpur.

Suresh Kumar Adapa
Scientist ‘D’

Encl: as above

Copy to:
1. Director RO HQ, Ministry of Environment, Forest & Climate Change, Government of India, 1st Floor Agni Wing, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi-110 003
2. Director (Monitoring Cell), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Aiganj, Jorbagh Road, New Delhi-110003
3. Sub Area Manager, Umner Sub Area, Post: Umner Project, Nagpur District, Maharashtra-441204
4. Guard file

Suresh Kumar Adapa
Scientist ‘D’
Compliance status of conditions stipulated in environmental clearance granted for Umri Opencast Expansion Project of Western Coalfields Limited at village Kanhwa, Tehsil Umri, Nanpur District of Maharashtra granted by MoEF vide letter no. J-11019/69/2005-II (I) dated 20/06/05

Specific Conditions:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Condition</th>
<th>Compliance Status</th>
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<tbody>
<tr>
<td>i.</td>
<td>Topsoil should be stacked properly with proper slope at earmarked site(s) and should not be kept active and shall be used for reclamation and development of green belt.</td>
<td>Complied. PA submitted that top soil excavated till date has been spread over OB dump sites. Plantation has been carried out over OB dumps from 2001-02 to 2012-13 over an area of 106.64 ha. with 3,06,600 trees of different species.</td>
</tr>
<tr>
<td>ii.</td>
<td>OB should be stacked at earmarked external OB dumps site(s) only and shall be of a maximum height of 60 M only and consist of 2 benches of 30 M each. The ultimate slope of the dump shall not be greater than 28 degree. The re-handling of OB for back filling will begin at the end of deoaling. Monitoring and management of rehabilitated dump sites should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment &amp; Forest and its Regional Office located at Bhopal on yearly basis</td>
<td>As per the information provided, overburden was dumped at 5 nos of designated dump sites and all the dumps have been stabilised with plantation. PA submitted that the height of the OB (total) is maintained as 60 meters. An area of 106.005 ha. (Excavated area) has already been backfilled with OB.</td>
</tr>
<tr>
<td>iii.</td>
<td>Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from spoil OB and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be Complying with. Drains have been provided along the periphery of the dumps. As per information provided, the dimensions of the drain is as follows. - Top width 2 m, bottom width 1 m &amp; height 1 m Also garland drain (top width 2.5 m, bottom width 1.5 m &amp; height 1.5 m) has been provided. Two sumps have been provided within the mine lease area of total capacity 229.09 million gallons.</td>
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<td>iv.</td>
<td>Dimension of retaining wall at the toe of the dumps and OB benches within the mine to check runoff and siltation should be based on the rainfall data.</td>
<td>In addition to the above, one sedimentation pond (30 m x 8 m x 2.5 m) has been provided. Water from the sumps located in mining lease is pumped to sedimentation tank. Water is being used for dust suppression, green belt maintenance.</td>
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<td>v.</td>
<td>The embankment constructed for the part of mine lease boundary, which is located along Amb river should be of sufficient height over the HFL and width to protect the mine from inundation from the peak flow from river.</td>
<td>Drains have been provided at the toe of the waste dumps. As per the information provided, desilting of drains is being carried out after monsoon. The water from waste dumps is routed to the sumps provided in the mine lease area.</td>
</tr>
<tr>
<td>vi.</td>
<td>Pumps of adequate numbers and capacity should be provided which drain the mine water even during the maximum rainfall.</td>
<td>As per the information provided, Amb River has been diverted with due permission of Superintending Engineer, Central Designs Organization, Nashik vide letter dated 09.12.2016. Embankment of length .... Km with 30 meter width has been provided as protection for Amb River.</td>
</tr>
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<td>vii.</td>
<td>Drill should be wet operated or with dust extractors.</td>
<td>Complied. PA submitted that six numbers of pumps having pumping capacity of 5000 GPM at Eastern Sector and 5000 GPM at Western Sector have been provided.</td>
</tr>
<tr>
<td>viii.</td>
<td>Controlled blasting should be practiced with the use of delay detonators and only during daytime. The mitigation measures control of ground vibrations and to arrest the fly rocks and boulders should be implemented.</td>
<td>Complying with. PA submitted that controlled blasting as permitted by DGMS is being practiced. Blasting is being carried out only during day time.</td>
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<tr>
<td>ix.</td>
<td>Plantation shall cover external OB dumps, along ML boundary on embankment, workshop, roads, CHP, township outside</td>
<td>Complying with. As per the information provided, plantation has been carried out over 231 ha. covering external</td>
</tr>
</tbody>
</table>
the lease area by planting native plants species in consultation with the local DFO/Agriculture department. The density of the trees should be around 2500 plants per hectare.

| x. | A progressive mine closure Plan shall be implemented. Back filling of the mined out area covering a total of 385 ha. leaving a void of 15 ha. shall commence in the quarried decoaled area (void) and reclaimed. |
| xi. | Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment, Forest & Climatic Change and to the Central Pollution Control Board, Regional Office quarterly within one month of monitoring. |
| xii. | The company shall put up artificial ground water recharge measures for augmentation of ground water resources. The project authority should meet water requirement of nearby villages in case |

OB dumps, mine lease boundary, embankment, workshop, roads, township etc.

PA submitted that mine closure plan is already approved by WCL Board. Back filling is being carried out as per the mine closure plan. Till date excavated area of 106.005 ha. has been backfilled.

As per the final mine closure plan, an area of 266.48 ha. will be backfilled. Water body will be created over 95.52 ha.

Complying with.

Regular monitoring of ground water level and quality is being carried out at 44 locations (including 5 piezometers) through Central Mine Planning & Design Institute (CMPDI) Limited, Regional Institute, Nagpur. Monitoring reports are being submitted to Regional Office, Nagpur regularly.

The depth of water level below ground level in surrounding villages is as follows:

<table>
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<tr>
<th>Depth of Water Level (in m. BGL)</th>
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<tbody>
<tr>
<td>Month</td>
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<tr>
<td>May'17</td>
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<tr>
<td>Aug'17</td>
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<td>Nov'17</td>
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<tr>
<td>Jan'18</td>
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Partly complied.

PA submitted that no downfall has been observed in ground water levels through regular monitoring.

PA needs to create water retaining structures in nearby villages to boost the ground water levels in the
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<td><strong>village well go dry due to dewatering of the mine.</strong></td>
<td>nearby area.</td>
<td></td>
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</table>
| **xiii.** | Sewage treatment plant should be installed in the existing colony. ETP should also be provided for workshop and CHP wastewater. | Partly complied.  
ETP of 150 KLD has been provided for the workshop.  
Treated water is being reused for washing.  
Civil structures for the STP (0.3 MLD capacity) based on Phytotrid technology have been completed. As per the information provided, it will be commissioned after monsoon. |
| **xiv.** | The requisite clearance from the State Land Use Board shall be obtained for diversion of agriculture land for more agriculture purpose. | As per the information provided the project land was acquired under LA Act in the year 1962-63 under National Cooperative Development Corporation Act 1962. |
| **xv.** | Digital processing of entire lease area using remote sensing technique shall be done regularly once in three years for monitoring land use pattern and report submitted to MOEF and its Regional office. | Complying with.  
Digital processing of entire lease area is being carried out using remote sensing technique every three years. Recent study has been carried out in the year 2017. As per the land use report prepared by CMPDI, 57.46% of the lease area is covered under vegetation. Mining and settlements covered 40% and 2.75% respectively. Copy of the report has been uploaded to company website. Also study reports are being submitted along with six monthly compliance report. |
| **xvi.** | A final mine closure plan along with the details of Corpus Fund should be submitted to Ministry of Environment & Forest, five years in advance of final mine closure for approval. | Escrow Account has been opened in the Oriental Bank of Commerce, WCL Building, Jaripatka, Nagpur 440014 vide A/c no. 08973161007404. Progressive Balance including interest in the Escrow a/c as on 31/03/18 is Rs.99, 31, 24,853.00. |
## General Conditions

<table>
<thead>
<tr>
<th>S.No</th>
<th>Condition</th>
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<tbody>
<tr>
<td>i.</td>
<td>No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forests &amp; Climatic Change.</td>
<td>PA agreed to comply with.</td>
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<td>ii.</td>
<td>No change in calendar plan including Excavation, quantum of mineral coal and waste should be made.</td>
<td>PA agreed to comply with.</td>
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<td>iii.</td>
<td>Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO\textsubscript{2}, NO\textsubscript{x} monitoring. Location of the station should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with State Pollution Control Board.</td>
<td>Complying with. Ambient air quality monitoring is being carried out at 4 locations covering core &amp; buffer zones. As per the monitoring data the pollutant levels found to be within prescribed standards. Ambient air quality monitoring reports are being submitted along with six monthly compliance report. Also same has been uploaded to company website.</td>
</tr>
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</table>
| iv.  | Data on ambient air quality (RPM, SPM, SO\textsubscript{2}, NO\textsubscript{x}) should be regularly submitted to the Ministry including its Regional Office at Bhopal and the SPCB/CPCB once in six months.                                                                                                                                                                                                                       | Partly complied. Fugitive emissions in the mining area are being controlled by water sprinklers, rain guns. Following systems have been installed for controlling the fugitive emissions:  
  - 42 nos. fixed sprinklers installed along coal transportation road, railway siding and CHP  
  - 3 No of mobile sprinklers of 28 KL capacity Also fugitive emissions are being monitored at two locations within the lease area. Fugitive emissions at both locations found to be higher |
| v.   | Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading; dump trucks (loading & unloading) points should be provided and properly maintained.                                                                                                                                                                             | Partly complied. Fugitive emissions in the mining area are being controlled by water sprinklers, rain guns. Following systems have been installed for controlling the fugitive emissions:  
  - 42 nos. fixed sprinklers installed along coal transportation road, railway siding and CHP  
  - 3 No of mobile sprinklers of 28 KL capacity Also fugitive emissions are being monitored at two locations within the lease area. Fugitive emissions at both locations found to be higher |
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<td>vi.</td>
<td>Adequate measures should be taken-up for control of noise levels below 85 dB (A) in the work environment. Workers engaged in blasting &amp; drilling operations, operations of HEMM etc., should be provided with ear plugs/muffs.</td>
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<td>than prescribed standards.</td>
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<td></td>
<td>Partly complied.</td>
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<tr>
<td></td>
<td>Noise levels are being monitored only at two locations. Monitoring locations need to be increased covering working areas such as drilling, active mine bench, etc.</td>
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<td></td>
<td>As per the monitoring data, the noise levels found to be within prescribed standards.</td>
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<td>vii.</td>
<td>Industrial waste water (workshop and waste water from the mine) shall be properly collected and treated so as to conform to the standards including for heavy metals before discharge prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.</td>
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<td>Complying with.</td>
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<td></td>
<td>Effluent treatment plant of 150 KLD has been provided for the workshop. Treated water from ETP is being reused for vehicle washing. Two sumps have been provided within the mine lease area of total capacity 229.09 million gallons. In addition to the above, one sedimentation pond (30 m X 8 m X 2.5 m) has been provided. Water from the sumps located in mining lease is pumped to sedimentation tank. Water is being used for dust suppression, green belt maintenance. Water from the clear water pond is being reused for dust suppression and also supplied to nearby farmers for irrigation. Treated water is being monitored regularly through CMPDI (a NABL accredited laboratory).</td>
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<td>viii.</td>
<td>Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting of the mineral shall be covered with tarpaulins and optimally loaded.</td>
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<td>Complying with.</td>
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<td></td>
<td>As per the details provided, emissions from light vehicles are being monitored for PUC. During the inspection it was observed that vehicles are being covered with tarpaulin before leaving the weigh bridge.</td>
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<td>ix.</td>
<td>Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the SPCB.</td>
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<td>Complying with.</td>
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<td>Environmental quality monitoring is being carried out through CMPDIL, which is a NABL accredited laboratory. Also pH meter has been provided at project level for continuous monitoring of the pH</td>
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<tr>
<td>x.</td>
<td>Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if need.</td>
</tr>
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<td>xi.</td>
<td>A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.</td>
</tr>
<tr>
<td>xii.</td>
<td>The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditures should be reported to this Ministry and its Regional Office located at Bhopal.</td>
</tr>
<tr>
<td>xiii.</td>
<td>The Regional office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information / monitoring reports.</td>
</tr>
<tr>
<td>xiv.</td>
<td>A copy of the environmental clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom</td>
</tr>
<tr>
<td></td>
<td>any suggestion/representation has been received while processing the proposal.</td>
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<td>---------------------------------------------------------------------------------</td>
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<tr>
<td>xv.</td>
<td>State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tehsildar's Office for 30 days.</td>
</tr>
<tr>
<td>xvi.</td>
<td>The project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at the website of the Ministry of Environment, Forest &amp; Climatic Change at <a href="http://envfor.nic.in">http://envfor.nic.in</a>.</td>
</tr>
<tr>
<td>3.</td>
<td>The Ministry or any other competent authority may stipulate any further additional condition for environmental protection</td>
</tr>
<tr>
<td>4.</td>
<td>Failure to comply with any of the directions mentioned above may result in withdrawal of this clearance</td>
</tr>
<tr>
<td>5.</td>
<td>The above conditions will be enforced, inter-alia, under the provisions of the Water (Prevention &amp; Control of Pollution) Act,1974, the Air (Prevention &amp; Control of Pollution) Act,1981, the Environment (Protection) Act 1986 and Public Liability Insurance Act,1991 along with their amendments and rules.</td>
</tr>
</tbody>
</table>
SUMMARY NOTE

1. Implementation of Conditions:
   Site inspection of the project has been carried out on 07.06.2018. Ministry granted environmental
clearance for the project vide letter dated 20.03.2005 for a production for the expansion of
production capacity from 2.34 million tonnes per annum to 3.50 million tonnes per annum in mine
lease area of 944.65 ha. As per the information provided, 34, 99,917 tonnes of coal has been
produced in the FY 2017-18. Dust suppression system has been provided at coal handling area,
haul roads, coal storage yards. 150 KLD effluent treatment plant has been provided for the
treatment of workshop effluent.

   Automatic truck washing system has been provided for all the trucks leaving the lease area.
   Monitoring of environmental quality parameters is being carried out through CMPDIL. An area of
   106.005 ha. (Excavated area) has already been backfilled with OB. As per the information
   provided plantation has been developed over an area of 231 ha.

   Following conditions were partially complied:
   Specific Condition no. xii:
   PA submitted that no downfall has been observed in ground water levels through regular
   monitoring.
   PA needs to create water retaining structures in nearby villages to boost the ground water levels in
   the nearby area.
   Specific Condition no. xiii:
   Sewage treatment plan for the colony is yet to be operational.
   General Condition no. v:
   Fugitive emission levels found to be higher than the prescribed standards.
   General Condition no. vi:
   Noise levels are being monitored only at two locations. Monitoring locations need to be increased
   covering working areas such as drilling, active mine bench, etc.
   General Condition no. xvi:
   Advertisement has been made, however the clause of seven days was not followed.

2. Review w.r.t to MOEFs letter dated 30.5.2012:
   The above mentioned report is prepared after site visit on 07.06.2018 for the amendment of
   environmental clearance granted for Umrer Opencast Expansion Project of Western Coalfields Limited at
   village Kanhwa, Tehsil Umrer, Nagpur District of Maharashtra.

3. Court Cases and show cause/closure notices:
   PA submitted undertakings that
a. There are no court cases pending against the project
b. No show cause notices issued by MPCB are pending against the project.

MPCB granted consent to operate for the project vide letter no. BO/EIC No.NG-10505-13/CAC-CELL/CAC-10002 dated 30.10.2014 with validity upto 31.03.2016. PA submitted applications for renewal of consent to operate. Applications are pending at MPCB. MPCB approved the consent to operate for the project upto 31.03.2021 during the CAC meeting of 2017-18 held on 12.12.2017.

4. **Uploading of compliance on web site:** With regard to uploading of EC and compliance of conditions along with analytical reports on the web site of the company, PA uploaded the compliance and analytical reports of mines under operation.
**Point (iv).** Consent to operate from the State Pollution Control Board for the present mining operations

**Compliance:** CTO Renewal application for 3.5 MTPA capacity was submitted to MPCB on 04-04-2017. CTO was approved in 7th CAC meeting held on 12/12/17 with validity upto 31/03/2021. Awaiting formal CTO letter from MPCB. MPCB MoM is placed below

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**MAHARASHTRA POLLUTION CONTROL BOARD**

Minutes of 7th Consent Appraisal Committee Meeting of 2017-2018 held on 12.12.2017 at 3:00 p.m. at MHADA Office, Somnath Bhavan, Kalyan, Mumbai, Maharashtra 400001

The Consent Appraisal Committee meeting of the Board was held on 12.12.2017. Following members of the Consent Appraisal Committee were present:

1. Shri Mitali Mihirkar, Vice President & CEO, MEHA, and Chairperson, MPCB, Mumbai.
2. Shri P. K. Mitra, Member Secretary, MPC Board, Mumbai.
3. Shri Padmanabha Nandakumar, Technical Advisor (Environment), MIDC, Mumbai.
5. Shri P. K. Mitra, Assistant Secretary (Technical), MPC Board, Mumbai.

Additional Secretaries, Home (Transport) Dept., Mumbai could not attend the meeting. Leave of absence was granted to them.

Following Office of MPCB were present for the meeting:

1. Shri A. R. Supte, PSO, MPCB, Mumbai, Special Invitee
2. Shri N. N. Gurav, Regional Officer (HQ), MPCB, Mumbai, Special Invitee

The meeting thereafter deliberated on the draft agenda items of [Book 1st no. 00000000012] is placed before the committee and following decisions were taken.

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**Sr No** | **Application Unique Number** | **Industry Name & Address** | **Decision on grant of consent** | **Consent granted upto** | **Remarks/Discussion**
--- | --- | --- | --- | --- | ---
13 | MPCB-CONSENT-000002411 | Bhaneungeri Open Cast Coal Mine Project Of M/s. Western Coal Fields Ltd. (WCL), -550/3, Khasara No 12/1 & 12/2 Village Bina Post-Klaparkheda, Kamptee, Nagpur. | NOT APPROVED Renewal of Consent to Operate | --- | It was decided to keep the case in abeyance and put up in next CAC meeting after obtaining reply from SRO, Nagpur-I regarding BG compliance with latest JVS results, and clarification about increase in CI from 22 Cr to 84.66 Cr.
14 | MPCB-CONSENT-0000024240 | Gompy Enterprises, Sr.No.43, 46,47,48,49 Mundhavare, Tq. Maval, Pune | NOT APPROVED Renewal of Consent to Operate | --- | It was decided to keep the case in abeyance and revert back to next CAC along with following information from PP:
1. Clarification regarding increase in CI from 99.55 Cr to 155.11 Cr. without obtaining consent from the Board.
2. Details regarding Sewage Treatment Plant, Effluent Treatment Plant for laundry activity & Organic Waste Converter (OWC).
3. Details regarding submission of Bank Guarantee as per condition stipulated in earlier consent.
4. Provision made regarding 60 % recycled of treated effluent.
It was also decided to call the verification report from SRO regarding adequacy of STP, ETP, OWC and latest JVS results from SRO.
15 | MPCB-CONSENT-0000024432 | Western Coal Fields Ltd., Surpur, Rev. Survey P.C. 21 & 22 Umer Project, WCL, Umred, Dist. Nagpur | APPROVED Renewal of Consent to Operate | 31.03.2021 | It was decided to grant renewal of consent to operate for Opencast Coal Mine-3.5 Million Tons/Annurn by imposing following conditions:
1. BG of Rs. 10 lakkhs obtained towards installation and operation of STP is forfeited as mining authority failed to provide the same and obtain top-up BG of Rs. 20 lakkhs towards provision of STP within six month.
2. Industry to extend the existing BG of Rs. 5 lakkhs obtained against OCCM of pollution control systems.
Consent to be issued after obtaining requisite consent fees from the industry.
**Point (v).** Redressal of issues raised during the last public hearing conducted by the SPCB on 23rd September, 2004, along with the R&R details duly certified by the State Government, **Compliance:** Public hearing was conducted on 23/09/2004 at Community Bachat Sabhagriha, Collectorate, Nagpur under the chairmanship of District Collector Nagpur based on which EC was secured for 3.5 MTPA with 944.65 ha of Land.

The present compliance status against the issues raised in public hearing is given below:

**Present status of Issues raised during Public Hearing in respect of Umrer OC Expansion**

<table>
<thead>
<tr>
<th>S.N</th>
<th>Issues Raised</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>WCL shall carry out massive tree plantation especially between villages &amp; mine. OB dumps and avenue plantation outside the area which will be helpful in maintaining ecological balance.</td>
<td>Till date 659700 nos. of saplings were planted covering an area of 263.88 ha covering external OB dumps, mine lease boundary, embankment, workshop, roads, township etc. by planting native species. Plantation has been done in consultation with the local DFO/Agriculture department.</td>
</tr>
</tbody>
</table>
| 2.  | WCL shall provide adequate fixed water sprinklers at CHPs. Coal transportation roads, weigh bridge, haul roads etc. to control fugitive dust emission. | Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain Guns are provided in railway siding and coal transportation road. All transfer points of conveyor belts at CHP are provided with sprinkling nozzles to prevent the dust formation during loading of coal in wagons. In addition to fixed water sprinklers & rain guns, Mobile Water Sprinklers are used in all three shifts for dust suppression at approach roads, haul roads, coal transportation roads and coal stock yard. The Fugitive dust is also monitored regularly and is kept under control. Details of Air pollution control measures installed:  
  • 42 nos. fixed sprinklers installed along coal transportation road, railway siding and CHP  
  • 3 No of mobile sprinklers of 28 KL capacity are in operation.  
  • However in addition to the already installed measures (as detailed out in above paragraphs) an Automatic Sensor based full body truck washing system has been made operational in Umrer OC.  
  • Photos of Automatic Sensor based full body truck washing system(Photos enclosed) is given below: |
<table>
<thead>
<tr>
<th>S.N</th>
<th>Issues Raised</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>WCL shall ensure that, all the trucks carrying coal shall be covered with tarpaulins properly to avoid spillage of coal on the roads and overloading of coal shall be strictly avoided.</td>
<td>All the vehicles transporting coal are properly covered with tarpaulin and are loaded within permissible limit.</td>
</tr>
</tbody>
</table>
| 4.  | WCL shall take care to avoid flood situation in the adjoining villages due to overburden.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OB was stacked at designated external OB dump sites and the dumps are constructed as per the specified norms stipulated by DGMS.  
The height of external dumps is 30 meters in single stage and the ultimate slopes of the dumps are not greater than 28 degree. For stabilization of these OB dumps 3,06,600 nos. of saplings were planted covering an area of approx. 122.64 ha. In addition, stone walls (made of boulders) have been constructed along the toe of the dumps for stabilization.  
All dumps are away from Amb river and are obstruction free. There is no flood like situation due to OB dumps.  
On date, all the OB dumps are reclaimed biologically and the vegetation has become self-sustained. Chances of siltation & sediment flows are very less.  
Presently the OB is being backfilled in the decoaled area of the mine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
<table>
<thead>
<tr>
<th>S.N</th>
<th>Issues Raised</th>
<th>Compliance</th>
</tr>
</thead>
</table>
| 5.  | WCL shall take massive ground water table recharging works and effective utilization of mine water discharge such as imagination at nearby villages. WCL shall also ensure that in case of scarcity of water due to depletion of ground water level due to mining activities they supply water to the affected villages. | Till date, based on routine monitoring of groundwater there is no reported negative impact on the surrounding area ground water levels.  
However if there is any water shortage in future it will be supplemented by necessary arrangement.  
After reclamation of the mined out area, remaining void area will serves as water recharging structure.  
In addition to this for maintaining ground water level, 2 nos of check dams on the diverted route of Amb river are constructed. |

**Check Dam near Lal Puliya Railway Bridge**  
**Dimensions (Length-55 m, height- 1.2m from river bed)**

![Check Dam near Lal Puliya Railway Bridge]

**Check dam at high level bridge of Umrer OCM**  
**Dimensions (length-97.5 m and height-1.2m from river bed)**

![Check Dam at High Level Bridge of Umrer OCM]
<table>
<thead>
<tr>
<th>S.N</th>
<th>Issues Raised</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.</td>
<td>WCL shall maintain overburden dumps to avoid nuisance to villages and carry out massive tree plantation on overburden.</td>
<td>OB was stacked at designated external OB dump sites and the dumps are constructed as per the specified norms stipulated by DGMS. The height of external dumps is 30 meters in single stage and the ultimate slopes of the dumps are not greater than 28 degree. For stabilization of these OB dumps 3,06,600 nos. of saplings were planted covering an area of approx. 122.64 ha. In addition, stone walls (made of boulders) have been constructed along the toe of the dumps for stabilization. On date, all the OB dumps are reclaimed biologically and the vegetation has become self-sustained. Presently the OB is being backfilled in the decoaled area of the mine.</td>
</tr>
<tr>
<td>7.</td>
<td>WCL shall carry out blasting in the day time only using advanced technology to avoid ill effects due to blasting to nearby residents WCL shall also maintain the record of blasting using vibrometer.</td>
<td>Controlled blasting techniques with use of delay detonators are being practiced during day time to control the ground vibration and to arrest the fly rocks. Controlled blasting technique as permitted by DGMS is adapted. Records of ground vibration using vibrometer are maintained.</td>
</tr>
</tbody>
</table>
| 8.  | WCL shall install continuous air monitoring stations in the vicinity of the mines and adjoining villages. | Five nos. of ambient air quality monitoring stations has been established in consultation with MPCB Officials. considering meteorological data, topographical features and environmentally and ecologically sensitive targets which are as follows:  
- Colony  
- Kanwa Village  
- Near Workshop  
- Umrer Manager Office  
- Sirpur Village  
Regular monitoring is being carried out on fortnightly basis. In addition to regular monitoring of environmental attributes, 1.no of CAAQMS has been commissioned within the mine lease area for continuous monitoring of air quality. |
| 9.  | WCL shall immediately initiate mass community development programmes in the vicinity of the affected villages in consultation with | Under CSR programme, developmental activities are undertaken in consultation with local villages or proposals from local villages within 25km radius of mine. Developmental activities like, skill development, Entrepreneurship development programmes, |
Issues Raised                                                                 | Compliance
--- | ---
district administration, MPCB and local body and submit the yearly proposal for approval of the district administration. | medical/health camps, providing required infrastructure etc are undertaken.

Expenditure incurred for works carried out in Umrer Area under CSR for last 5 years is given below:

<table>
<thead>
<tr>
<th>Year</th>
<th>Expenditure incurred on CSR activities (Rupees in Lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010-2011</td>
<td>49.59</td>
</tr>
<tr>
<td>2011-2012</td>
<td>85.80</td>
</tr>
<tr>
<td>2012-2013</td>
<td>152.98</td>
</tr>
<tr>
<td>2013-2014</td>
<td>216.88</td>
</tr>
<tr>
<td>2014-2015</td>
<td>39.98</td>
</tr>
<tr>
<td>2015-2016</td>
<td>8.46</td>
</tr>
<tr>
<td>2016-2017</td>
<td>6.09</td>
</tr>
<tr>
<td>2017-2018</td>
<td>14.21 (Provisional)</td>
</tr>
</tbody>
</table>

Brief of developmental activities being carried out in nearby villages:

Health checkup camps are conducted regularly for nearby villages.

In 2016-17, 85 persons were trained for Apparel designing, beauty parlor and electrician.

In 2017-18, 26 persons were trained for office automation and data entry operator.

In addition to skill training, extra circular activities like sports are also conducted in nearby villages on regular basis.

10. WCL should implement above recommendation as suggested by the public hearing panel. | Above recommendations are continuous in nature till the life of mine. Hence, compliance of recommendations is being continued till end of the mine life.
Point. (vi): Details of court cases and the compliance status

**Compliance:** No court cases are pending against the Umrer OC Expansion.

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**ANY COURT CASES PENDING**

This is to certify that there is no court case pending against Umrer Opencast Project under Umrer Area till date.

*Sub Area Manager*

*Umrer Sub Area, WCL, Umrer Area*
4. Submission:

In view of the above, it is most earnestly solicited the subject application may kindly be considered for grant of Environmental Clearance for 40% enhancement in production capacity for Expansion of Umrer OC (from 3.50 MTPA to 4.90 MTPA) within existing land area of 944.65 ha under provisions of 7(ii) of EIA Notification, 2006.

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