

Sr. No.	Queries	Compliance
6	To mitigate the impact of project activity on the wildlife, preparation of Wildlife Management Plan of Rs. 20 lakh has been recommended by the State Government, same need to be approved by the PCCF (Wildlife) and specific comments in term of holistic impact of the mining activity on the surrounding flora and fauna need to be submitted.	As per site inspection report sent by DCF Central Chanda, there is no significant flora & fauna found in the area proposed for diversion and the required forest land is not a part of any protected area, tiger corridor or Biosphere reserve.  Therefore, Wildlife Management Plan shall be prepared as per the instructions from State Government.

(श्वेता बोड्डु)  
उपवनसरक्षक,  
मध्य चांदा वनविभाग, चंद्रपुर

BOARD MATTER  
CONFIDENTIALWESTERN COALFIELDS LIMITED  
BOARD SECRETARIAT  
COAL ESTATE, CIVIL LINES, NAGPUR

WCL/BD/SECTT/BM-224/2010/ 2688

DATE: 29.05.2010

We reproduce below the relevant excerpts from the minutes of 224th meeting of the Board of Directors of WCL held on 29th April, 2010 :-

ITEM NO.224/ C-11

SUB Project Report of Sakhari-Irawati (Pauni-III) OC -  
Updated February, 2010 (Departmental Option).  
( Deferred Item No.223/ C-27 )

- i) After deliberations at length, the Board accorded first stage approval, i.e. approval of the Mining Plan to facilitate application of forestry and environment clearance for Project Report of Sakhari-Irawati (Pauni-III) OCP for a capacity of 1.25 Mty. at a capital investment of Rs.360.7987 crores (Rupees three hundred sixty crores, seventy nine lakhs eighty seven thousand only) (updated February, 2010) with Departmental Option, as brought out in the agenda note. The Board directed for entering into Coal Supply Agreement with prospective consumer on Cost Plus Basis to yield 12% IRR at 85% target capacity and clearance from CIL.
- ii) The Board also accorded approval for enhancement of capacity of Sakhari-Irawati (Pauni-III) OCP to 1.55 Mty. without any capital investment, for the purpose of obtaining EMP clearance.
- iii) GM (P&P) to take necessary action in the matter."

  
COMPANY SECRETARY

✓ GENERAL MANAGER (P&amp;P)

cc: DIRECTOR (PERSONNEL)  
DIRECTOR (TECHNICAL) OP  
DIRECTOR (TECHNICAL) P&P  
DIRECTOR (FINANCE)

को.कं. 1378  
29/9/16  
हस्ताक्षर  
नि. मु. ५५५

वेस्टर्न कोलफील्ड्स लिमिटेड  
Western Coalfields Limited

Annexure-II  
Annexure-II (11)  
बोर्ड सचिवालय  
BOARD SECRETARIAT

पंजी. कार्यालय : कोल इस्टेट, सिविल लाईन्स, नागपुर - 440 001  
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BOARD MATTER  
CONFIDENTIAL

WCL/BD/SECTT/BM-281/2016/618

DATE : 29/09/2016

Reproduced below is the relevant excerpt from the minutes of 281st meeting of the Board of Directors of WCL held on 19th September, 2016:

"ITEM NO.281/ C-7

SUB Approval for change of Name of Amalgamated Pauni-II & Pauni-III OC Mine to Pauni-II Expansion OC Mine

- i) In consideration of the proposal brought out in the agenda note, the Board after deliberation approved the proposal for renaming the Project Report of Amalgamated Pauni-II & Pauni-III OC Mine as the "Project Report (Including Mining Plan) of Pauni-II Expansion OC Mine"
- ii) GM (P&P) to take necessary action in the matter."

COMPANY SECRETARY

✓ GENERAL MANAGER (P&P)

cc : DIRECTOR (TECHNICAL) OP  
DIRECTOR (PERSONNEL)  
DIRECTOR (FINANCE)  
DIRECTOR (TECHNICAL) P&P

- RD, CMDI, RI-IV.  
- AGM, BLP A.  
- All HOD's, WCL-HQ.  
- Pauni-II Expn. OC, BLP A. File  
- E/C  
Jm 29/9/16



- Air quality for PM<sub>10</sub> (98<sup>th</sup> percentile values) already on much higher side at many of the locations, would not allow more mining operations without adequate mitigating measures.
- Diversion plan for Katna Nallah requires approval of the concerned regulatory authority (Water Resources/Irrigation Department).
- Mine Plan for the project duly approved by the competent authority.
- R&R Plan for the project affected families.
- Diversion of 24.6 ha of forest land for non-forestry purposes.

The proposal was, therefore, deferred for want of needful on the above lines.

#### **Agenda No.42.10**

**Expansion of Pauni-II Opencast Coal Mine from 0.6 MTPA to 3.25 MTPA with increase in ML area from 316.30 ha to 1095.52 ha of M/s Western Coalfield Limited located in District Chandrapur (Maharashtra)- Environment Clearance reg.**

**42.10.1** The proposal is for grant of Environment Clearance to expansion of Pauni-II OC from 0.6 MTPA to 3.25 MTPA with increase in ML area from 316.30 ha to 1152.66 ha of M/s Western Coalfield Limited located in District Chandrapur (Maharashtra).

**42.10.2** Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

- The project area is covered under Survey of India Topo Sheet No56 M/1 and 56 M/5 and is bounded by the geographical coordinates ranging from N 19° 48' 19" to N 19° 48' 19" N and longitudes E 79° 13' 48" and E 79° 16' 13".
- Coal linkage of the project is proposed for MahaGenco, KPCL, GSCCL & various consumers
- Joint venture cartel has not been formed.
- Project does not fall in the Critically Polluted Area (CPA), where the MoEF&CC's vide its OM dated 13<sup>th</sup> January, 2010 has imposed moratorium on grant of environment clearance.
- Employment generated is 945 Nos. Employment provided is 182 nos., Monetary compensation given- 20 Nos. balance 743 Nos. persons will be provided employment from the project
- The project is reported to be beneficial in terms of: It will bridge the gap (to the extent of the peak production capacity of the project) between demand & supply of non-coking coal for the power houses and other bulk consumers of western as well as southern part of the country.
- Earlier, the environment clearance to the project was obtained under EIA Notification, 1994 vide Ministry's letter NoJ-11015/71/2005-IA.II (M) dated 02.02.2006 for 0.60 MTPA in mine lease area of 316.30 ha.
- Total mining lease area is 1095.52 ha. Mining Plan (Including Progressive Mine Closure Plan) has been approved by the WCL Board on Vide letter no WCL/BD/SECTT/BM-307/2018/830 dated 26.12.2018.
- The land usage pattern of the project is as follows:

#### **Pre-mining land use details (Area in Ha)**

S. No.	Land Use	Within ML Area	Outside ML Area	Total
1	Agricultural Land	718.69	0	718.69
2	Forest Land	0	0	0
3	Wasteland	60.53	0	60.53
4	Grazing Land	0	0	0
5	Surface Water Bodies	0	0	0
6	Settlements	0	0	0
7	Others (Industrial)	316.30	0	316.30

8	Old Excavation Area (East Quarry)	0	0	0
9	Old Excavation Area (West Quarry)	0	0	0
10	Old OB Dumps	0	0	0
11	Roads & Mine Infrastructure	0	0	0
12	R & R Colony	0	0	0
13	Staff Colony	0	0	0
14	Green Belt	0	0	0
15	Balance Area	0	0	0
Total Project Area =		1095.52	0	1095.52

### Post Mining

- (x) The total land requirement for Pauni-II Expansion OC Mine is 1152.66 ha. Out of 1152.66 ha land, 21.61 ha land which is already acquired for Pauni OC has to be transferred to Pauni-II Expansion OC by boundary readjustment.
- (xi) Total agricultural land of 1050.99 ha and govt land of 89.60 ha is involved in the project. About 12.7 ha of forest land is also required. The application for Stage – I FC has already been made but FC is yet to be secured.
- (xii) Now considering the present position of the mine and the surged demand of power grade coal from WCL mines for the power plants of Maharashtra and as per the requirements of MoEF& CC (for project involving forest land but not having Stage – I FC in hand), a Mining Plan by excluding the Forest land and adjacent non-forest land (for maintaining mine geometry) has been prepared as **Phase – I** for the expansion capacity (0.60 to 3.25 MTPA) and balance land area (316.30 ha to 1095.52 ha).
- (xiii) However, as soon as, the Stage – I FC is received, the application for EC will again be made for additional land only, since the Public Hearing and ToR have been secured for the total land of the project i.e. 1152.66 ha.
- (xiv) The proposed arrangement of proceeding ahead with **Phase – I** (with the expansion capacity excluding the forest and adjacent non – forest) is an interim arrangement for a period of maximum 24 months (considering physical possession of forest land) and it will help the project to achieve considerable increase in production following all the requirements

S. No.	Land use	Land use (ha)				Total
		Plantation	Water Body	Public Use	Undisturbed	
1	External OB Dump	214.57	0	0	0	214.57
2	Top Soil Dump	35.40	0	0	0	35.40
3	Excavation / Quarry	107.0	188.35	0	0	295.35
4	Roads	0.5	0	1.5	0	2.0
5	Built-up Area (Colony/office)	3.0	0	7.0	0	10.0
6	Green Belt	0.0	0.0	0.0	0	0.0
7	Undisturbed Area	0.0	0.0	186.41	0.0	186.41
8	Internal OB dumps	58.93	0.0	0.0	0.0	58.93
9	Virgin area	350.0	0.0	0.0	0.0	350.0
Total Area =		769.4	188.35	194.91	0.0	1152.66



(xv) Total geological reserve reported in the mine lease area is 42.847MT with 30.63 MT mineable reserves. Out of total mineable reserve of 30.63MT, 30.63 MT are available for extraction. Percent of extraction is 72.0 %.

(xvi) Two seams with thickness ranging from 2.55 m – 10.95 m are workable. Grade of coal is G-9, stripping ratio 1 in 6.19, while gradient is 1 in 6 to 1 in 7.

(xvii) Method of mining operations envisages by Opencast with Shovel dumper combination method

(xviii) Life of mine is 13 years.

(xix) The project has three external OB dumps in an area of 214.57 ha with 90 m height and 184.32 Mm<sup>3</sup> of OB. The OB from the current mining operations shall be backfilled from 6th year onwards, one internal OB in an area of 107.0 ha with 80.73 Mm<sup>3</sup> of OB is envisaged in the project.

(xx) Total quarry area is 295.35 ha out of which backfilling will be done in 107 ha while final mine void will be created in an area of 188.35 ha with a depth of 200 m. Backfilled quarry area of 107 ha shall be reclaimed with plantation. Final mine void will be converted into water body

(xxi) Transportation of coal has been proposed by dumpers in mine pit head, from surface to siding by tippers/dumpers and at sidings by payloaders.

(xxii) Reclamation Plan in an area of 769.4 ha, comprising of 214.57 ha of external dump, 35.40 ha of top soil dump, 107.0 ha of internal dump, 412.43 ha for green belt development.

(xxiii) No forest land has been reported to be involved in the Phase-I project.

(xxiv) No National Parks, Wildlife Sanctuaries and Eco-Sensitive Zones have been reported with 10 km boundary of the project.

(xxv) The ground water level has been reported to be varying between 6.05 m to 8.40 m during pre-monsoon and between 1.85 m to 7.90 m during post-monsoon. Total water requirement for the project is 880 KLD.

(xxvi) Application for obtaining the approval of the Central Ground Water Authority for withdrawal of groundwater from CGWA has been applied vide 21-4/728/MH/MIN/2017 on 19.01.2017.

(xxvii) Public hearing has been conducted on 01.12.2018 for Pauni-II Expansion OC as per ToR granted vide letter no. J-11015/80/2016.IA-II (M) dated 30.03.2017 (3.25 MTPA production capacity in an area of 1152.66 ha). Place of Public Hearing: Manoranjan Kendra, Sasti colony, Near CGM office, WCL Ballarpur area, Tal. Rajura, Dist. Chandrapur, Maharashtra.

(xxviii) Major issues raised in the public hearing includes:

- New approach road to the agriculture fields of nearby villagers
- Water scarcity in nearby villages
- Compensation to the farmers encroached land of state government revenue department
- Nallah Diversion and its impact over agriculture land.
- Development of Nimni village as Model village.
- Compensation to the PAF against land acquired for the project by December, 2018
- Compensatory jobs to be provided earliest to eligible land losers.
- CSR work to be carried out in nearby villages.
- Issues due to blasting
- Damage to the crop due to dust generated during to transportation of coal.
- Due to overburden, the water enters in the nearby fields and damage crops.
- Skill development programme for local youths from project affected nearby villages.
- Medical camps to be organized on monthly basis.
- Dust pollution in nearby villages.
- Installation of continuous ambient air quality monitoring stations.

The above issues were duly addressed and report has been submitted to State PCB.

(xxix) The proposal for renewal of consent considered in the 6<sup>th</sup> Consent committee meeting of MPCB for 2018-19 held on 17/18.12.2018 at MPCB, Mumbai vide application no. MPCB



CONSENT 0000039454. Consent to Operate (CTO) for Pauni II OC of 0.60 MTPA production capacity granted renewal up to 31.01.2022. Formal letter awaited.

(xxx) Sakhari & Lendi Nallah is flowing along boundary of lease. The nallah will be diverted in consultation with the Water Resource Department of the State Government.

(xxxii) Baseline monitoring of environmental parameters has been carried out during Nov'2015 to Jan'2016.

(xxxiii) Regular monitoring of ambient air quality is being carried out on fortnightly basis. The documented report is submitted to MPCB and also to MoEF&CC along with half yearly EC compliance report. In general, the results of ambient air quality monitoring data were found within prescribed limits.

(xxxiv) No court cases, violation cases are pending against the project of the PP.

(xxxv) The project does not involve violation of the EIA Notification, 1994 and amendment issued thereunder. The coal production from the mine was started from the year 2016-17 onwards. No excess production of coal from the sanctioned capacity has been realized since the commencement of mining operations. The coal production, realized from the project, from 1993-94 onwards, is as under:

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity
2016-17	0.60	0.510	Nil
2017-18	0.60	0.306	Nil
2018-19 (upto 31-12-18)	0.60	0.543	Nil

(xxxvi) The project involves 954 nos. project affected families.

(xxxvii) Total cost of the project is Rs. 483.6948 crores. Cost of production is Rs.1018.96/- per tonne., CSR cost is Rs.2 per tonne, R&R cost is Rs 318.58 crores. Environment Management Cost is Rs. 97.09 lakhs.

(xxxviii) The proposal for renewal of consent considered in the 6<sup>th</sup> Consent committee meeting of MPCB for 2018-19 held on 17/18.12.2018 at MPCB, Mumbai vide application no. MPCB Consent 0000039454. Consent to Operate (CTO) for Pauni II OC of 0.60 MTPA production capacity granted renewal up to 31.01.2022. Formal letter awaited.

#### 42.10.3 During deliberations, the EAC noted the following:

The proposal is for revalidation of the environmental clearance dated 2<sup>nd</sup> February, 2006 as mandated under the Ministry's Notification dated 6<sup>th</sup> April, 2018, and grant of environmental clearance to expansion of Pauni-II Opencast Coal Mining project from 0.60 MTPA to 3.25 MTPA in mine lease area of 1095.52 ha of M/s Western Coalfields Ltd located in village Sakhri, Tehsil Rajura, District Chandrapur (Maharashtra) under the provisions of the EIA Notification, 2006.

There is no forest land involved in the project.

Terms of reference for the project in an area of 1152.66 ha (includes forest area 12.07 ha) was granted by the Ministry on 30<sup>th</sup> March, 2017. Public hearing was conducted by the SPCB on 1<sup>st</sup> December, 2018. Meanwhile, the project area was revised to exclude the said forest area and adjacent non-forest area 45.07 ha. Baseline data was collected during November, 2015 to January, 2019.

Mining Plan, including the Progressive Mine Closure Plan, for the increased coal production capacity of 3.25 MTPA within the revised mine lease area of 1095.52 ha was approved by the Board of M/s Western Coalfields Ltd in its meeting held on 24<sup>th</sup> December, 2018.



Earlier, the Environmental Clearance to Pauni-II OC coal mine for its capacity of 0.60 MTPA in an area of 316.30 ha, was accorded by the Ministry vide letter dated 2<sup>nd</sup> February, 2006 based on public hearing conducted on 6<sup>th</sup> November, 2004. The Regional Office (WCZ) of the Ministry at Nagpur has carried out site inspection in 24<sup>th</sup> September, 2018 and submitted its report on compliance of EC conditions vide letter dated 2<sup>nd</sup> January, 2019.

The proposal for re-validation of environmental clearance in accordance with the Ministry's Notification dated 6<sup>th</sup> April, 2018 was considered by the EAC in its meeting held on 31<sup>st</sup> August, 2018. As per observations of the EAC, public Notice for information of the stakeholders about present coal mining operations of capacity 0.60 MTPA in mine lease area of 316.30 ha, was issued on 4<sup>th</sup>/5<sup>th</sup> October, 2018 inviting comments within one month. As informed, no comments/suggestions were received within the prescribed time frame. Also, all other requirements insisted by the EAC for revalidations of the EC were observed to be complied with.

The project does not involve violation of the EIA Notification, 2006 and amendment issued there under. No excess production of coal from the sanctioned capacity has been realized since the commencement of mining operations.

Renewal of Consent to operate for the existing capacity of 0.60 MTPA has been obtained from the SPCB and is valid up to March, 2022.

**42.10.4** The EAC, after detailed deliberations, recommended for revalidation of the existing environmental clearance dated 2<sup>nd</sup> February, 2006, and grant of environmental clearance to the expansion of Pauni-II Opencast Coal Mining Project from 0.60 to 3.25 MTPA in mine lease area of 1095.52 ha of M/s Western Coalfields Limited located at village Sakhri, Tehsil Rajura, District Chandrapur (Maharashtra) for a period of one year, subject to compliance of terms and conditions as applicable, and the additional conditions as under:-

- The project proponent shall collect and analyze one season data for environmental parameters and submit for consideration of the EAC before 31<sup>st</sup> December, 2019.
- The project proponent shall obtain Consent to establish from the State Pollution Control Boards for the proposed peak capacity of 3.25 MTPA prior to commencement of the increased production.
- Transportation of coal from face to Coal heap shall be carried out by truck. Further, the coal transportation from Coal heap to Coal Handling Plant shall be carried out through covered trucks.
- To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.
- Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding, etc.
- The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 3.25 MTPA.
- Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.
- Persons of nearby villages shall be given training on livelihood and skill development to make them employable.
- To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.
- Thick green belt of adequate width at the final boundary in the down wind direction of the



*project site shall be developed to mitigate/check the dust pollution.*

- *Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.*
- *A third party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI /NEERI/IIT or any other expert agency identified by the Ministry.*

#### **Agenda No.42.11**

**Krishnashila OCP from 6.25 MTPA to 7 MTPA of M/s Northern Coalfields Limited in an area of 851.78 ha located in Tehsil Dudhi, District Sonebhadra (Uttar Pradesh) - Continuation/Extension of EC**

**[IA/UP/CMIN/91208/2018, F.No. J-11015/243/2011-IA.II(M)]**

**42.11.1** During deliberations, the EAC noted the following:-

The proposal is for continuation of environment clearance dated 12<sup>th</sup> March, 2018 granted by the Ministry to the expansion of Krishnashila Opencast Coal Mine from 6.25 MTPA to 7 MTPA by M/s Northern Coalfields Limited in an area of 851.78 ha located in Tehsil Dudhi, District Sonebhadra (Uttar Pradesh).

The project was granted environmental clearance by the Ministry vide letter dated 12<sup>th</sup> March, 2018 for a period of one year, subject to compliance of certain terms and conditions, inter-alia including the following:-

(i) Adequate ambient air quality monitoring stations shall be established in consultation with the State Pollution Control Board, and regular monitoring shall be carried out for particulate emissions (both PM<sub>10</sub> & PM<sub>2.5</sub>), SO<sub>2</sub> & NO<sub>x</sub>. The monitoring results for the period during summer season (April-June, 2017) shall be submitted to the State PCB and the Regional Office of this Ministry.

(ii) The EAC shall review compliance of the actions taken on observations of the Regional Office before December, 2018, and make its recommendations for continuance of the project thereafter. Also, based on the monitoring results, the Committee shall examine adequacy and efficacy of the pollution control measures and its impact on ambient air quality.

The Ministry's Regional Office at Lucknow has conducted inspection of the project site on 24<sup>th</sup> November, 2018 to monitor the status of compliance of conditions stipulated in the environmental clearance dated 12<sup>th</sup> March, 2018, and submitted report vide their letter dated 26<sup>th</sup> December, 2018.

**42.11.2** *The EAC, after detailed deliberations and duly considering observations of the Ministry's Regional Office in their letter dated 26<sup>th</sup> December, 2018, recommended for continuance of the environmental clearance dated 12<sup>th</sup> March, 2018 for a period of one year, subject to the project area not covered under the moratorium imposed by the Ministry, and terms and conditions stipulated in the said EC remaining the same.*