

CHAPTER - XII

PROGRESSIVE AND FINAL MINE CLOSURE PLAN

12.0 MINE CLOSURE PLANNING

12.1 OBJECTIVES OF CLOSURE PLANNING

Mine closure planning has to be carried out at the starting of the mine and needs periodic reviewing and revision during its life cycle to cope with the geo-technical constraints, safety and economic risks, social and environmental challenges. Various other objectives are as follows:

- ❖ To allow a productive and sustainable after-use of the site which is acceptable to the mine owner and the regulatory authority;
- ❖ To protect public health and safety;
- ❖ To alleviate or eliminate environmental damage and thereby encourage environmental sustainability;
- ❖ To minimize adverse socio-economic impacts.

12.2 DIFFERENT ASPECTS OF MINE CLOSURE PLANNING

The mine closure planning broadly involves the following aspects:

(a) Technical aspects:

The following technical aspects would be reviewed in the final mine closure planning.

❖ **Safety hazards including management of fire and subsidence:**

In the mine closure plan, action will be taken to cover all the safety aspects including management of fire & subsidence and mine inundation. Due to underground depillaring operation, surface cracks may reach to surface or subsidence may occur in the area because depth of workings is low. Adequate thickness of soil/alluvium will be spread over the subsided area, if any. Fire areas which will not proposed to be excavated shall be dealt with non-combustible material and other suitable fire fighting measures.

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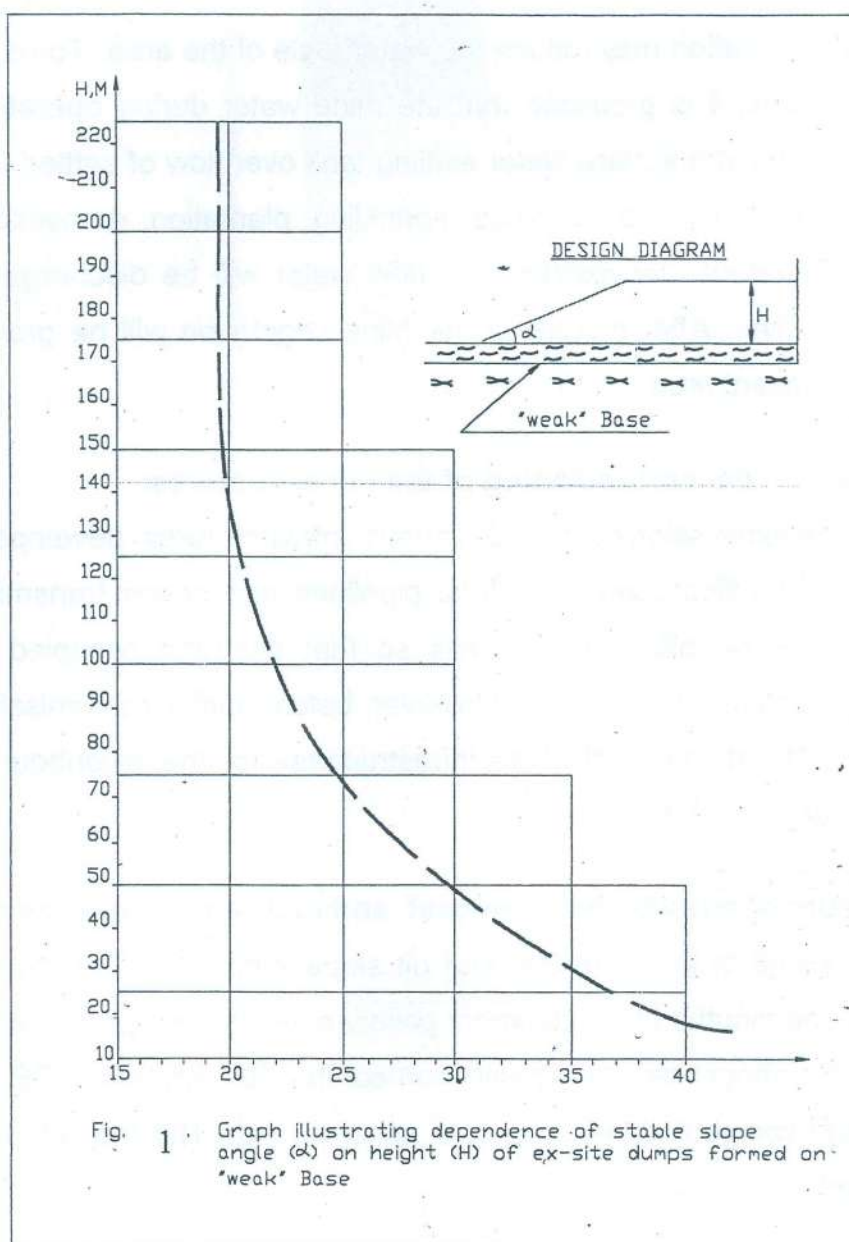
❖ **Management of Pit Slopes:**

During operation of the mine, overall slope will be maintained at an angle not exceeding 22° - 28° . Vegetation cover will also be provided along the slopes to arrest any failure.

As regards stability of back-filled dumps, the final level of reclaimed backfill will be matched with the levels of surrounding areas leaving a final residual void which will serve as a lagoon which may be utilised as water reservoir for the locality.

During operation, the external and internal OB dump will be developed with 40m berm width and maximum height of 90m in case of external OB dump and the overall dump slope shall not exceed 22 to 28 degrees. The waste dumps will be provided with toe wall and garland drains. The dump will be technically reclaimed and vegetation will be grown after spreading the top soil. The above measures will prevent slope failure and improve the aesthetic value.

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The final level of reclaimed backfill will be matched with the levels of surrounding areas leaving a final residual void which will also serve as a lagoon which may be utilised as water reservoir for the locality. Most of the back filled area shall be vegetated by selecting proper plant species in consultation with State Forest Department.

❖ **Management of hydrology and hydro-geology:**

In the mine closure plan, the surface flow pattern of precipitation and mine water would be clearly developed and water channel suitably laid down so that it does not disturb the general hydrology of the area.

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Mining operation may reduce the water table of the area. To recharge the water table, it is proposed that the mine water during operation will be discharged into surface water settling tank over flow of settled water from the tank will be used for water sprinkling, plantation, domestic purpose, etc. Therefore, the excess over flow water will be discharged into the nearby river. After closure of the mine vegetation will be grown on the entire vacant area.

❖ **Details of decommissioning of the infrastructures:**

The decommissioning of the various infrastructures developed for the mine like office complex, roads, pipelines and power transmission line etc. shall be planned in details so that the land occupied by these infrastructures are released. However, before such decommissioning, the possibility of re-use of these infrastructures for the neighbouring mines shall be explored.

❖ **Closure of entry to the open-cast and underground mines :**

At the end of the mine life, end pit slope within the seam and every exposed mouths of development gallery along the length of the bench / box-cut should be closed with non-combustible material (OB rock & mutti), compacted properly and sprayed with Thermoseal (a mica based sealant).

All the incline mouths and air shafts presently being used and proposed to be made in future will be sealed adequately with non-combustible material for safety point of view.

(b) **Environmental aspects**

This would include the following:

❖ **Management of final voids:**

In the mine closure plan, voids due to mining are to be dealt and the final land use plan will include filling of the voids for land reclamation where possible and for hydro reclamation where feasible.

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❖ **Channelisation of available water:**

If the mine is having sufficient water and if on closure, the mine water flows into the surface water courses, channelising this water for surrounding community for their irrigational/domestic uses may be taken up. This can be planned by providing structures involving one time costing.

❖ **Management of Recharge Areas:**

The pre-mining and post mining scenario on the hydrogeological recharge system would be included in the closure plan.

❖ **Acceptable Surface and Ground Water Flows:**

In the final closure plan of the mine, wherever the mine water is likely to flow out to surface and meet the surface water sources; the quality of water from such mines would be assessed and flow pattern designed in the final plan.

(c) **Social aspects**

The social aspects of land use planning relating to mine closure would include the following:

❖ **Re-deployment of Workforce:**

The company employees will be gainfully engaged in the neighboring projects after cessation of mining activities.

❖ **Management of Community Facilities:**

In view of the short life of the project no new community facility will be created. However, the existing facilities of adjoining areas will be strengthened.

(d) **Financial aspects:**

Mine Closure activities would be a constant exercise for the mine which would begin with the commencement of mining operations and continue till post closure. The mine closure activities would naturally entail certain expenditures, which will have to be borne by the mine.

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operator. There are two types of Closure, namely, Progressive Mine Closure (Concurrent) and Final Mine Closure. This would cover the activities which are being executed along with normal mining operation and would continue to be executed in course of execution of the project.

The Final Mine closure cost has to deal with the following:

- Cost of closure activities.
- Cost towards organization for executing the closure activities.
- Cost of the post project monitoring.
- Creation of a corpus fund for the final mine closure.

e) Maintenance of records pertaining to Progressive Mine Closure

The Mine management shall maintain following 2 Nos. of Progressive mine closure plans for every 5 year period.

A Progressive mine closure plan for surface activities

This plan shall be maintained at a scale of 1: 4000 showing the entire progressive mine closure activities (surface) carried out on yearly basis. The plan shall be updated on annual basis and shall be signed by appropriate authorities from the Project and the Area. After every annual renewal, the plan shall be placed before HOD (Env.)/ GM (Env.) of the Company for scrutiny and approval.

Progressive mine closure plan for UG activities

Similar to PMCP for surface activities, a progressive mine closure plan showing the UG activities shall be maintained. This plan shall also be updated on annual basis and signed by all the above mentioned officials.

Execution of progressive mine closure activities and 5 yearly monitoring

Besides the above plan, a progressive mine closure register shall also be maintained by the mine management. This register shall carry

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details of the progressive mine closure activities carried out on yearly basis. The details to be maintained in the said register shall cover inter alia the name of activity, place, period of execution, executing agency, expenditure incurred, proof of expenditure incurred, final status of the area where activity was executed, plan on which such activity has been shown etc.

The entries into the said register shall be signed by the appropriate authorities from the Project and the Area. At the end of the year the said register (along with two plans) shall be placed before HOD (Env.)/ GM (Env.) of the Company for scrutiny and approval.

After observing the necessary administrative/financial formalities, the mine authorities shall execute the identified progressive mine closure activities, whenever and wherever required. The executed activities shall be shown on the above said plans and recorded in the said registers.

The executed progressive mine closure activities shall be monitored on 5-yearly basis by 3rd party (ISM, CMPDI, NEERI etc.) as stated in Govt. Guidelines.

The 5 yearly return from escrow fund would be equal to expenditure incurred on progressive mine closure activities during last 5 years or 80 % of total deposited amount in the escrow account (including interest) whichever is less. The said return would be subject to above said monitoring of progressive MCP by a third party (ISM/CMPDI/NEERI etc.).

As the 5 yearly return from escrow fund is linked with the expenditure incurred on progressive mine closure activities during last 5 years, it is very important that progressive mine closure records, plans, expenditure details along with proof are properly maintained.

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At this juncture it is important to note that some of the progressive mine closure activities, enumerated in the preceding paragraphs, are legal obligations specified in Project reports, EMP, permissions obtained from statutory bodies such as CPCB, SPCB, DGMS etc. The Project authorities are bound to comply with these obligations.

12.3 MINE CLOSURE OBLIGATIONS

There is need to define the liabilities, responsibilities and authorities of the mine management, other regulatory bodies, Central and State Governments after mine closure. Some obligations relating to the Mine Management Companies are as follows:

- (a) **Health & Safety:** Regulation Nos. 6, 61, 106, 112 of Coal Mines Regulations, 1957 and its related DGMS Circulars;
- (b) **Environment :** Water (Prevention & Control of Pollution) Act, 1974; Air (Prevention & Control of Pollution) Act, 1981; Environmental (Protection) Act, 1986 and Environmental Protection (Amendment) Rule, 2000; DGMS Directives on Noise & Ground Vibration;
- (c) **Forest:** Forest (Conservation) Act, 1980.
- (d) **Rehabilitation:** CIL's policy, however, applicable for land oustees only.
- (e) **Decommissioning/asset disposal, etc.**

In addition documents like EIA/EMP submitted to MoEF&CC and the commitments made therein also have legal status

12.4 IMPACT ASSESSMENT REMEDIAL MEASURES

Environmental Impact on Landscape, Water Source, air and noise pollution during mine life has been discussed earlier. It is imperative that the environmental monitoring may be continued for 3 years after closure of mine in order to assess corrective measures to be implemented to sustain

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pre-mining ecosystem and environment in the core and buffer zone (to the extent possible).

12.5 STAKEHOLDERS INVOLVEMENT

Various stakeholders effected due to mine closure need to be identified and they may be as follows:

The Company : Employees, Management & Stakeholders

The Community : Local business and service providers, landholders, neighbours and nearby residents, local Government and NGOs and Community Groups.

The State : The State Government. The Central Government and concerned Government Agencies.

There is need of regular consultations between the stakeholders to evolve the needs of the stakeholders and their involvement in the process.

12.6 CLOSURE ACTION PLAN

Closure planning is a whole-of-life exercise that begins at the start of a mine and continues till post-closure. The dynamic nature of closure planning requires regular and critical review to reflect changing circumstances as a result of any operational change, new regulation, and new technology and remain flexible enough to cope with unexpected events.

The following steps have to be undertaken in relation to Mine Closure Planning:

- Prior to the surface demolition/restoration a surface audit should be undertaken on all surface structures, spoil heaps, lagoons, etc. to assess whether there are any hazardous materials that could cause problems; viz. explosives, chemicals, etc. A list of surface assets should be prepared and made available to potential purchasers.

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prospective purchasers could be invited and asked to submit sealed bids, this could ensure that the sale of assets give better financial gain.

- In order to identify potential impact, necessary hydro-geological studies into post-mining ground water recharge have to be done.
- Work force on roll of BCCL may be re-deployed for gainful utilization in the same or other mines of BCCL.
- As a detailed component of the Closure Plan, a Decommissioning Plan is to be developed towards the final stages preferably 5 years prior to tentative closure of the mine. Once established, it may be updated annually.

12.7 PROTECTIVE MEASURES TO BE TAKEN

Protective measures must include the following:

- The protection of mine Entries , building and other structure on the project site against access by unauthorized persons;
- The maintenance of all mechanical, hydraulic and waste management system;
- The continuation of all monitoring programmes;
- The control of all contaminated effluents;
- The securing of all petroleum products, chemicals and waste;
- The rendering of all tailings, dams and piles of earth, rock and waste resulting from work done on the project site in a stable and safe condition.

12.8 CLOSURE COSTS

Earlier, there were three separate Collieries namely Muraidih, Shatabdi and Phularitand Colliery having separate lease boundaries. All these Collieries are under the administrative control of Barora area, BCCL. In past, these Collieries were worked in large scale by opencast as well as underground Board & Pillar mining method upto V/VI/VII combined seam.

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Earlier large scale of underground mining by Bord & Pillar method has been done in three to four sections in thick V/VI/VII combined seam in all these collieries. Seams lying above this combined seam were also partly developed /partly depillared by underground mining method.

Later-on separate opencasts mines were made in Muraidih Colliery, Shatabdi Colliery as well as Phularitand Colliery to extract this V/VI/VII combined seam keeping the floor of this seam as base for the opencast. Thus, all the underground working of V/VI/VII combined seam along with B&P workings of overlying seams have been extracted and still extraction is in progress in these areas.

Due to large scale of opencast mining in Muraidih Colliery and Shatabdi Colliery, the common boundaries between these two mines have been excavated and merged and becomes a single mine. Subsequently, these two Collieries are amalgamated into a single Colliery after obtaining permission from DGMS and it is presently known as Muraidih Colliery.

In Phularitand Colliery, a quarry named as Pure Benedih Section (P B Quarry)) was worked in past with floor of V/VI/VII seam as base on north-western part of Phularitand Colliery. At present, an quarry is running on outsourced basis (i.e hired HEMM patch) with floor of V/VI/VII combined seam as base which is located almost southern part of the Phularitand property and located on northern side of Dhanbad-Chandrapura (DC) Railway line.

To extract seams lying below V/VI/VII seam in Phularitand Colliery, Mine Officials initiated a proposal to drive Inclines from the floor of abandoned V/VI/VII seam quarry (P B Section) to Seam-III. The Incline sites are selected by the Colliery Officials. Subsequently, two Inclines/drift drivages were made upto the floor of Seam-III. Presently, coal is being extracted from Seam-III by Bord & Pillar method of mining.

Considering the present scenario of mining operation of opencast as well as underground workings in these Collieries, BCCL management wants to amalgamate the area of existing Muraidih Colliery with the part area of Phularitand Colliery falling in Cluster-II (i.e northern side of D C Railway

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Line). This mining plan is prepared considering this amalgamated area which is named as Amalgamated Muraidih-Phularitand(Part) Colliery.

Mine Closure activities would be a constant exercise for the mine which would begin with the commencement of mining operations and continue till post closure. The mine closure activities would naturally entail certain expenditures, which will have to be borne by the mine operator. There would be two types of expenditures on account of mine closure activities in respect of Amalgamated Muraidih Phularitand (Part) Colliery.

- **Revenue expenditures**

This would cover the activities which are being executed along with normal mining operation and would continue to be executed in course of execution of the project.

- **Expenditures to be incurred just prior to actual mine closure and in the post closure period**

As per MOC guidelines, a corpus escrow account @ ₹ 1.0 lakhs (August, 2009 Price Level) per Ha (for UG) and @ ₹ 6.0 lakhs (for OC) of the project area shall be opened with the coal controller organization to meet the expenses of final mine closure.

The current Guidelines read as:

"It has been estimated that typically closure cost for an opencast mine will come around ₹ 6.00 lakh per Hectare of the project area and it would be ₹ 1.00 lakh per Hectare for underground mine project area at current price levels (August, 2009) and these rates will stand modified based on Wholesale Price Index as notified by Government of India from time to time".

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Erstwhile, two mine closure plans has already been approved by Board of Director, BCCL namely Muraidih-Shatabdi Group of mines & Phularitand Mixed Mine (Cluster-II).

Details of aforesaid mine closure plans are given in subsequent table:

Sl. No.	Name of Mine	Board details	Date of Board meeting	Escrow Account opened at Bank of Baroda, Dhanbad Branch	Amount deposited upto March 2019
01.	Muraidih - Shatabdi Group of mines	300 th Board of BCCL	21.09.2013	00150100008816	₹ 1841.91 Lakhs
02.	Phularitand Mixed mines (Cluster-II)	305 th Board of BCCL	12.03.2014	00150100009052	₹ 1254.82 Lakhs

It is suggested that a new escrow account may be opened in the name of Amalgamated Muraidih-Phularitand(Part) Colliery and the existing two accounts may be merged with it as per the policy decision of BCCL.

A revised mine closure plan is being prepared incorporating all the major current and proposed changes in the mining activities. As per the data furnished by the mine/area, the Mine Closure area and leasehold area in respect of Amalgamated Muraidih, Phularitand (Part) Colliery differs and is given below and the closure cost is calculated accordingly. The mine closure cost for the revised mine closure plan is calculated in following way:

As per Colliery record, the total area of existing Muraidih Colliery is 717.71 Ha (after merger of earlier Muraidih & Shatabdih Collieries). Though total area of Phularitand Colliery is 741.88 Ha but a part this area i.e 401.0 Ha is falling in Cluster-II. As per official record, the amalgamated area of Muraidih Colliery and part of lease area of Phularitand Colliery is 1118.71 Ha (i.e 717.71 Ha +401 Ha). **Within this proposed amalgamate area, Mine closure area comes out to be as 934.78 Ha considering opencast as well as underground mining operation.**

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Out of 934.78 Ha of Mine closure area, an area of 638.80 Ha is required for opencast operations and 295.98 Ha for underground operations. Thus, 638.80 Ha area has been considered for the calculation of closure cost as per opencast norms and 295.98 Ha have been considered for the calculation of closure cost of the area as per Underground norms.

The overlapping area (where UG & OC operations have been done in different vertical levels) has been considered for calculation of closure cost as per opencast norms.

The money deposited in the Escrow Account has to deal with the following:

- Cost of closure activities.
- Cost towards organization for executing the closure activities.
- Cost of the post project monitoring.
- Creation of a corpus fund for the final mine closure

It is difficult to conclusively predict the mining parameters on a long term basis owing to rapidly changing mining technology, developments in the field of clean coal technologies and R&D activities in development of alternative energy sources.

As per the latest Guidelines issued by the MoC, GoI(dt. 07.01.2013) the *"annual closure cost is to be computed considering the total project area at the above mentioned rates and dividing the same by the entire life of the mine in years for new projects and balance life of mine in years for operating/existing mines."*

Jharia Coalfield is characterized by occurrence of a number of working coal horizons, giving a leverage of extended working life of the mines. Some more seams can come in the lap of workable horizons due to improvement in mining technology in times to come. The underground mines in leasehold of JCF are generally small capacity mines, giving a false impression of very long lives due to small level of current production level. There may be a

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strategy in future to amalgamate the mines for higher production level to attain the economics of scale. In such a situation, the life of the mine arrived at with current level of production for the balance reserve may not be workable in the long run.

In view of the above, for the purpose of mine closure cost calculations, the life of the mine has been calculated based on the reserve available in the identified workable seams. The life of Amalgamated Muraidih Phularitand (Part) Colliery for opencast reserves will be 11 years and life of underground unit will be 31 years in the present perspective.

	UG Section	OC Section
Mine Closure area (Ha)	295.98	638.80
Life (years)	31	11
Notified rate (As on Aug 2009)	Rs.1.0 Lakh/Ha	Rs.6.0 Lakh/Ha

As per the guidelines "these rates will stand modified based on Whole Price Index as notified by Government of India from time to time".

Thus, an escalation factor has been calculated based on WPI of May 2019 (121.2) vis-à-vis WPI of August 2009(129.6). However, as per the directives of Office of the Economic adviser, WPI series has been revised. In the revised series, base year has been changed to 2011-12 from 2004 -05. To account for the aforesaid change WPI Linking Factor has been taken as 1.561. Considering this linking factor, current WPI of May 2019 is converted to WPI for Base year 2004-05 which comes out to be 189.19.

Based on the WPI of May 2019 (189.19) and Aug 2009(129.6), Escalation factor comes out to be 1.459824.

	UG Section	OC Section	Remarks
Notified rate (in base year)	₹ 1 Lakh/Ha	₹ 6 Lakh/Ha	
Escalation Factor	1.459824	1.459824	Escalation factor X Notified Rate
Escalated Rate of mine closure per Ha	₹ 1.459824 lakhs	₹ 8.758944 lakhs	

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As per Mine Closure guidelines, the total expenditure to be incurred at the escalated rate may be calculated in subsequent manner:

	UG Section	OC Section	Remarks
Area (Ha)	295.98	638.80	Area x Escalated rate of mine closure
Escalated Rate of mine closure	₹ 1.459824 lakhs	₹ 8.758944 lakhs	
Total Escalated Amount	₹ 432.079 lakhs	₹ 5595.214 lakhs	

Details of amount already deposited in the escrow account of Phularitand mixed mines & Muraidih - Shatabdi Group of mines upto 31st March 2019:

Year	Phularitand Mixed mines		Muraidih Shatabdi Group of Mines	
	Amount (in ₹ lakhs)		Amount (in ₹ lakhs)	
	UG Section	OC Section	UG Section	OC Section
2013-14	8.227	176.253	18.87	251.92
2014-15	8.638	185.066	19.82	264.51
2015-16	9.070	194.319	20.81	277.74
2016-17	9.524	204.035	21.85	291.63
2017-18	10.000	214.237	22.94	306.21
2018-19	10.500	224.949	24.09	321.52
Total	55.96	1198.86	128.38	1713.53
Total amount already deposited for OC unit	₹ 2912.39 lakhs			
Total amount already deposited for UG unit	₹ 184.34 lakhs			

The amount given in above table shall be adjusted against the current escalated amount as provision has already been made in the approved mine closure plans of **Phularitand Mixed mines (Cluster-II)** and **Muraidih Shatabdi Group of Mines** with respect to the same.

To account for the deposited amount, the total amount is deducted from the escalated amount to arrive at the balance escalated amount.

	UG Section	OC Section	Remarks
Escalated Amount(in ₹ lakhs)	₹ 432.079	₹ 5595.214	
Amount already deposited in escrow account (in ₹ lakhs)	184.339	2912.389	
Balance Escalated Amount (in ₹ lakhs)	247.740	2682.825	

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To arrive at the annual cost to be deposited in each year in an escrow account, the escalated amount shall be divided by the life of the section.

	UG Section	OC Section	Remarks
Balance Escalated Amount(in ₹ lakhs)	247.740	2682.825	Balance Escalated Amount / Life
Life (in Years)	31	11	
Amount per year(in ₹ lakhs)	7.992	243.893	

As per the guidelines, the arrived annual cost has to be escalated by 5% every year for the remaining life of the mine. The amount to be deposited every year after 5% escalation is given below:

Table No. 12.1 Break-Up cost of Mine Closure of Amalgamated Muraidih Phularitand (Part) Colliery

(In ₹ lakhs)

Year	UG Section	OC Section	Total
1	7.992	243.893	251.885
2	8.391	256.088	264.479
3	8.811	268.892	277.703
4	9.251	282.337	291.588
5	9.714	296.454	306.167
6	10.200	311.276	321.476
7	10.710	326.840	337.550
8	11.245	343.182	354.427
9	11.807	360.341	372.149
10	12.398	378.358	390.756
11	13.017	397.276	410.294
12	13.668		13.668
13	14.352		14.352
14	15.069		15.069
15	15.823		15.823
16	16.614		16.614
17	17.445		17.445
18	18.317		18.317
19	19.233		19.233
20	20.194		20.194
21	21.204		21.204
22	22.264		22.264
23	23.378		23.378
24	24.546		24.546
25	25.774		25.774

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Year	UG Section	OC Section	Total
26	27.062		27.062
27	28.416		28.416
28	29.836		29.836
29	31.328		31.328
30	32.895		32.895
31	34.539		34.539
Total	565.492	3464.938	4030.430

Thus, total amount that shall be further deposited for final mine closure activities of Amalgamated Muraidih Phularitand (Part) Colliery in case of underground workings during the considered period of 31 years stands out to be ₹ 565.492 lakhs and in case of opencast workings during the considered period of 11 years stands out to be ₹ 3464.938 as per the present status of the mine.

The amount already deposited in the escrow account will also be available for mine closure activities and should be included to arrive at the total funds available for Mine Closure Activities.

	Amount (in ₹ lakhs)	
	UG Section	OC Section
Amount Already Deposited in Escrow Account	184.339	2912.389
Amount to be Deposited in the Escrow Account in the Future	565.492	3464.938
Total Amount available for Mine Closure Activities	749.831	6377.327

Based on the existing mine closure planning norms, the above calculated cost at WPI of May 2019 on mine closure may be tentatively grouped under different heads as given in Table No. 12.2 A and 12.2 B for underground and opencast respectively, as per guidelines of CMPDI(HQ).

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Table 12.2 A) Break up costs of Mine Closure Activities for Amalgamated Muraidih-Phularitand(Part) Colliery (Underground)

Sl. No.	Activity	Mine Closure Cost (₹ in Lakhs)
A	Dismantling of Structures	
	Service Buildings	26.244
	Residential Buildings	79.332
	Industrial Structures like CHP, Workshop, field sub-station, cap lamp room, haulage, fan installation etc.	47.464
B	Permanent Sealing of mine entries(incline mouth and air shaft)	
	Sealing of incline mouths and air shafts	39.891
C	*Subsidence Management	35.617
D	LANDSCAPING	
	Landscaping of the cleared land for improving its esthetic	65.985
E	*Plantation	
	Plantation over the cleared area obtained after dismantling and on other barren spaces	97.478
F	Monitoring/Testing of parameters for three years	
	Air Quality	51.213
	Water Quality	47.539
G	*Enterpreneuship Development(Vocational/skill development training for sustainable income of affected people	57.362
H	*Miscellaneous and other mitigative measures	109.475
I	Manpower Cost for Supervision	92.229
	TOTAL	749.831

Note: * : To be covered under Progressive Mine Closure activities also

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Table 12.2 B) Break up costs of Mine Closure Activities for Amalgamated Muraidih Phularitand (Part) Colliery (OC)

Sl. No.	Activity	Mine Closure Cost (₹ in Lakhs)
A	Dismantling of Structures	
	Service Buildings	12.755
	Residential Buildings	170.275
	Industrial Structures like CHP, Workshop, field sub-station, etc.	19.132
B	Permanent Fencing of Mine Void and other dangerous area	
	Random Rubble masonry of height 1.2 metre including levelling up in cement concrete 1:6:12 in mud mortar	95.660
C	Grading of Highwall slopes	
	Levelling and grading of highwall slopes	112.879
D	*OB Dump Reclamation	
	Handling/Dozing of external OB Dump into mine void	5654.138
	Bio-Reclamation including soil spreading, plantation and maintenance	25.509
E	LANDSCAPING	
	Landscaping of the cleared land for improving its esthetic	19.132
F	*Plantation	
	Plantation over area obtained after dismantling	31.887
	Plantation around fencing	12.755
	Plantation over the cleared external OB Dump	1.275
G	Monitoring/Testing of parameters for three years	
	Air Quality	14.030
	Water Quality	12.755
H	*Entrepreneurship Development(Vocational/skill development training for sustainable income of affected people	16.581
I	*Miscellaneous and other mitigative measures	127.547
J	Manpower Cost for Supervision	51.019
	Total	6377.327

Note: * : To be covered under Progressive Mine Closure activities also

Adhik
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 Muraidih Colliery

Thus, total amount that shall be deposited for final mine closure activities of Amalgamated Muraidih Phularitand (Part) Colliery has been estimated as ₹ 7127.158 lakhs, out of which ₹ 6377.327 lakhs is for opencast based on OC norms at WPI of May 2019 and ₹ 749.831 lakhs is for underground based on UG norms at WPI of May 2019.

Mining is to be carried out in a phased manner initiating afforestation/reclamation work in the mined out area of the first phase while commencing the mining in the second phase i.e. continuation of mining activities from one phase to other indicating the sequence of operations depending on the geo-mining conditions of the mine. Up to 80% of the total deposited amount including interest accrued in the ESCROW account may be released after every five years in line with the periodic examination of the Closure Plan as per Clause 3.1 of the Annexure of the Guidelines. The amount released should be equal to expenditure incurred on the Progressive mine closure in past five years or 80% whichever is less. The balance amount shall be released to mine owner/leaseholder at the end of the final Mine Closure on compliance of all provisions of Closure Plan. This compliance report should be duly signed by the lessee and certify that said closure of mine complied all statutory rules, regulations, orders made by the Central or State Government, statutory organisations, court etc. and certified by the Coal Controller.

Ashok
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Muraidih Colliery
(H)

Table 12.3 Break up costs of Mine Closure Activities (earlier approved) and Expenditure incurred during Progressive Closure Activities**Break up Cost of Mine Closure and claimed amount of Muraidih-Shatabdi OCP**

Activities	Mine closure Cost as per plan (₹ lakhs)	Claimed Mine closure Cost (lakhs)				Total Claimed (in ₹ lakhs)
		2014-15	2015-16	2016-17	2017-18	
OB Dump Reclamation						
Handling/Dozing of external OB Dump into mine void	3956.22	964.21	338.14	303.64	374.33	1980.32
Bio-Reclamation including soil spreading, plantation and maintenance	17.85		1.65			
Plantation						
*Plantation around fencing	8.92					
Plantation over the cleared external OB Dump	0.89			274.68	518.96	795.29
Total	3983.88	964.21	339.79	578.32	893.29	2775.61 **

Break up Cost and claimed amount of Mine Closure of Phularitand OCP

Activities	Mine closure Cost as per plan (₹ lakhs)	Claimed Mine closure Cost (₹ lakhs)		Total Claimed (₹ lakhs)
		2016-17	2017-18	
OB Dump Reclamation				
Handling/Dozing of external OB Dump into mine void	2220.042	1943.50	2832.59	4776.09
Total	2220.042	1943.50	2832.59	4776.09 **

**Above data is provided by Env. Dept. Barora Area

However, the additional amount beyond the escrow account, if any estimated later on, will be provided by the mine operator after estimating the final mine closure cost five years prior to mine closure (as per the mine closure guideline).

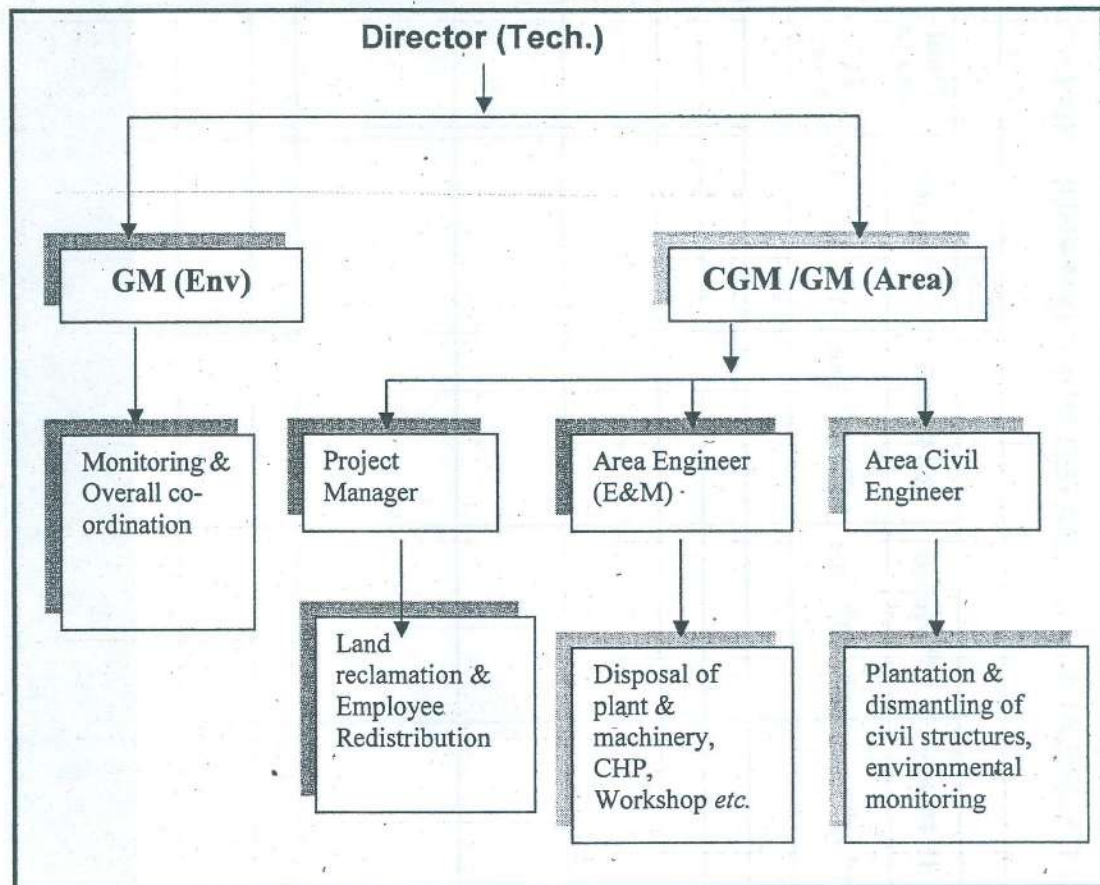
12.9 IMPLEMENTATION PROTOCOL

As the mine closure activities would continue even after cessation of mining activities, an organization consisting of different discipline would be formed to undertake the implementation of mine closure activities as well as monitoring of the same. Such activity shall continue for a period of three

Project Officer
Muraidih Colliery

years after the closure of mining activity in the mine. Once the closed mine becomes stabilized in respect of safety, environmental and social aspects, the monitoring team would be withdrawn.

For implementing the mine closure activities and monitoring thereof, the following organisational structure at corporate level has been proposed:



Environmental monitoring for three years after closure of mine will be carried out to evaluate the environmental quality of the area. If need be, proper mitigation measures will be taken up after evaluating the environmental quality. Before closure of the mine, Area GM will prepare survey and disposal report and the same will be submitted to DGMS for acceptance.

When the mine closure activities would take final shape and the entire area under influence is brought to an acceptable shape, BCCL would obtain a mine closure certificate from Coal Controller to the effect that the protective, reclamation and rehabilitation works in accordance with the approved mine closure plan/final mine closure plan have been carried out for surrendering the reclaimed land to the State Government concerned.

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Muraidih Colliery

IMPLEMENTATION SCHEDULE FOR MINE CLOSURE IN AMALGAMATED MURAIIDIH PHULARITAND (PART) COLLIERY

S.N	Activity	Time Frame	Year											
			1 st Phase	2 nd Phase	3 rd Phase	4 th Phase	Final Phase	Post Closure Phase						
			1 st - 5 th Year	6 th - 10 th Year	11 th - 15 th Year	16 th - 20 th Year	21 st Year	PC1	PC2	PC3				
A	Dismantling of Structures													
	Service Buildings	2 years												
	Residential Buildings	2 & ½ years												
	Industrial structures like CHP, Workshop, field sub-station, etc.	2 & ½ years												
B	Permanent Fencing of mine void and other dangerous area													
	Random rubble masonry of height 1.2 metre including leveling up in cement concrete 1:6:12 in mud mortar	2 years												
C	Grading of highwall slopes													
	Levelling and grading of highwall slopes	2 years												
D	*OB Dump Reclamation													
	Landfilling/Dozing of OB dump and backfilling	Throughout the life of the mine including 3 years after cessation of mining operation												

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Mining Plan and Mine Closure Plan for Amalgamated Muraidih-Phularitand (Part) Colliery, BCCCL

S.N	Activity	Time Frame	Year					
			1 st Phase	2 nd Phase	3 rd Phase	4 th Phase	Final Phase	Post Closure Phase
			1 st - 5 th Year	6 th - 10 th Year	11 th - 15 th Year	16 th - 20 th Year	21 st Year	PC1 PC2 PC3
E	Technical and Bio-reclamation including plantation and post care	Throughout the life of the mine including 3 years after cessation of mining operation						
	Permanent sealing of mine entries (incline mouth and air shaft)							
	Sealing of incline mouths and air shafts	2 years						
F	*Subsidence Management	Throughout the life of the mine, if required including 3 years after cessation of mining operation						
G	*Landscaping							
	Landscaping of the open space in the leasehold area for improving its esthetics and eco value	Throughout the life of the mine including 3 years after cessation of mining operation						
H	*Plantation							
	Plantation over cleared area obtained after dismantling	2 years						
	Plantation around the quarry area and in safety zone	Throughout the life of the mine including 3 years after cessation of mining operation						
	Plantation over the external OB Dump	Throughout the life of the mine						

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Mining Plan and Mine Closure Plan for Amalgamated Muraidih-Phularitand (Part) Colliery, BCCL

S.N	Activity	Time Frame	Year									
			1 st Phase	2 nd Phase	3 rd Phase	4 th Phase	Final Phase	Post Closure Phase				
			1 st - 5 th Year	6 th - 10 th Year	11 th - 15 th Year	16 th - 20 th Year	21 st Year	PC1	PC2 PC3			
I	Post Closure Env Monitoring / testing of parameters for three years											
	Air Quality	3 years										
	Water Quality	3 years										
J	*Entrepreneurship Development (Vocational/skill development training for sustainable income of affected people	Throughout the life of the mine										
K	*Miscellaneous and other mitigative measures	Throughout the life of the mine including 3 years after cessation of mining operation										
L	Post Closure Manpower cost for supervision	3 years										


ASHOK KUMAR
 Project Officer
 Muraidih Colliery

Minutes of the meeting for "Preparation of Amalgamated Mining Plan and or Muraidih/Shatabdih-Phularitand Mine of Barora area and also Mining Plan & Mine Closure Plan for Block-II OCP of Block-II area falling in Cluster-II of BCCL"

A meeting was held on the above subject in presence of GM(P&P), Dy. GM(Env), GMs/ Officials from respective Areas/Mines of BCCL and RD/Officials from RI-II, CMPDIL at the conference Hall of RI-2, CMPDIL on 17-12-2018. The planner has explained the status of the existing Mines and following strategies have been decided to prepare the mining Plan and Mine Closure Plan—

Muraidih-Shatabdih-Phularitand

1. It has been decided that Mining Plan & Mine Closure Plan should be prepared as mixed mine (both OC and underground) after amalgamating Muraidih Mine and Phularitand Mine falling in Cluster-II.
2. According to GM of Barora area, Muraidih & Shatabdih Mines have already been amalgamated to a single mine and presently it has been named as Muraidih Mine.
3. It has been decided that the Mining Plan & Mine Closure Plan for Muraidih/Shatabdih-Phularitand Mine will be named as **"Amalgamated Mining Plan and Mine Closure Plan for Muraidih-Phularitand(Part) Colliery, Barora Area, BCCL"**
4. The lease hold area of Phularitand Mine is partly falling in Cluster-II and partly in Cluster-XV. Amalgamated Mining plan is to be prepared for mines falling within Cluster-II. Hence, it has been decided to consider the northern part area of lease hold of Phularitand Colliery lying above D C Railway line falling in Cluster-II alongwith lease hold area of Muraidih Mine for the preparation of above mentioned amalgamated mining plan.
5. In the format of Mining Plan, it has been decided to write within bracket "Amalgamated boundary of Muraidih-Phularitand Mines falling in Cluster II" and mentioned the total measured area against the head of Lease hold area as stated above in the item no.4.
6. The virgin area of coal seams available on northern side of incrop of V/VI/VII seam in Phularitand Mine will be considered for underground mining with B&P development method only due to land acquisition constraint and in rest part of the area by development /depillaring method in Seam-III & below seams if technically feasible. Seam-IV is thin seam and impersistent within the amalgamated area, hence not considered for UG mining. From V/VI/VII seam and seams lying above is to be considered for Opencast mining.
7. In Muraidih Mine, a Global Bid Project has been approved by BCCL Board for extraction of Seam-III, I with deployment of PSLW set which are lying below V/VI/VII combined seam of Muraidih Mine and work order has already been awarded to Contractor. Hence, same proposal of the Contractor for underground mining of these seams shall be considered in preparation of amalgamated Mining Plan of Muraidih Mine and Phularitand Mines.

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Muraidih Colliery

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8. In the amalgamated Mining Plan, the existing Muraidih OC and Phularitand OC will be combined to a single OC towards northern part of the amalgamated Muraidih-Phularitand area considering the availability of resources.
9. The Amalgamated Mining Plan should be prepared considering the diversion of D B Road (running North-South) towards western side keeping almost along the boundary of Railway property of Adra-Gomoh Rly Line.
10. Area authority has to take DGMS permission before commencement of mining operation in amalgamated Muraidih-Phularitand mine falling in Cluster-II property as stated in item no.4.
11. As per the Area Survey Officer, **Forest land** exists within the Muraidih Mine. It should be marked (mentioning area in Ha) by respective surveyor on the Surface Plan along with **coal edges** presently being extracted in existing quarries/ P B quarry(old), existing **Fire area**, line of **water logging** in different seam workings of both mines and should be submitted to CMPDIL at the earliest.
12. As per Mine Authority, some part of forest land has been extracted by OC operation in past. It has been decided to mention in text of this mining plan as "This is a broken forest land for which regularization for forest clearance has been applied by BCCL". A copy of the application letter will be provided by Environment department, HQ, BCCL to incorporate as annexure in the report.
13. Normative & Peak Production for Amalgamated Mining Plan and Mine Closure Plan for Muraidih-Phularitand Colliery should be maintained as considered in EC letter no.J-11015/35/2011-IA.II(M) dated 06-02-2013.
14. Presently a separate Escrow Account is maintained for Muraidih Mine and Phularitand Mine. It has been decided that a single escrow account will be maintained for this amalgamated mine after merging the existing Escrow Accounts of both mines.

Block-II

1. The Mining Plan for Block-II will be prepared for the area excluding of forest land (179 Ha)

The following executives were present in the above meeting-

<u>Name</u>	<u>Designation</u>	<u>Name</u>	<u>Designation</u>
<u>BCCL</u>			
1. Sri N K Martand	GM(P&P)	2. Sri Chitranjan Kumar	GM(Barora Area)
3. Sri B K Sinha	GM(Block II)	4. Dr. EVR Raju	Dy.GM(HOD,Env.)
5. Sri Kumar Ranjeev	Sr.Mgr(Min),Env.	6. Sri S N Shammie	AM(PIng),Barora Area
7. Sri S K Mifizuddin	Area Survey Officer(Barora)	8. Sri Amrendra Kumar,	Assit. Mgr. (CD)
9. Sri Amit Kumar Mishra	Assit. Mgr(Env)	10. Sri Uttam Kr. Jha	MT(Env)
15. Sri Pravesh Yadav	Assit. Mgr(Env)		
<u>CMPDIL</u>			
1. Sri A K Ball	RD, RI-2	2. Sri R K Sinha	GM(HoD), Mining/Env
3. Sri S Mohanta	Chief Mgr.(Mining)	4. Sri N K Das	Dy. Mgr(Mining)
5. Sri Sumit Dutta	Manager(Mining)	6. Sri Jai Prakash	Dy. Mgr(Mining)
7. Sri A S Lakra	AM (Geology)	8. Sri Avijit Ganguly	AM (Geology)

ASHOK KUMAR
Project Officer
Muraidih Colliery

Meeting on Mining Plan & Mine Closure Plan for Muradikh - Phulvairaid Colliery and Mining Plan & Mine Closure Plan for Block-II

No	Name	Designation	Signature	Mobile No.	E-mail ID
1	Shri A.K. Bhal	RD	[Signature]	8987788554	shri2-angad@coalindia.co
2	CHITRAKANTH KUMAR	GM/Bureau In	[Signature]	9470599612	gmbureau.bcu1@coalindia.co
3	N.K. Maitani	GM (PEP) Peshawar	[Signature]		
4	B.K. SINHA	GM, Block II	[Signature]	9470596691	bosant66910@gmail.com
5	DR. E.K. RASTI	Head (PEP)	[Signature]		
6	Kumar Anvireer	sr manager (min) Enam	[Signature]		
7	S.N. Sharma	Asst. Pys (Bans)	[Signature]		
8	SK Mohitkumar	Asst. Pys (Bans)	[Signature]		
9	Amrendra Kumar	Asst. Mgr. (CO)	[Signature]		
10	Pravish Yadav	Asst. Mgr. (PEP)	[Signature]		
11	Amir K. Mishra	Asst. Mgr. (ENV)	[Signature]		
12	Uttam Kumar Jha	MT (ENV)	[Signature]		
13	Niraj Kumar Das	Dy. Manager, RT II	[Signature]		
14	Aravind Kumar	Asst. (Env)	[Signature]		
15	Anurag Kumar Laksh	Asst. (Env)	[Signature]		
16	S. Mohan	Asst. (Env)	[Signature]		
17	R.K. S. De	Asst. (Env)	[Signature]		
18	Sanjay Kumar	Asst. (Env)	[Signature]		
19	S. Datta	Asst. (Env)	[Signature]	8987788554	

ASHOK KUMAR
Project Officer
Muradikh Colliery

[Signature]



भारत कोकिंग कोल लिमिटेड

(एक मिनी रत्न कंपनी)

योजना एवं परियोजना विभाग

कोयला भवन कोयला नगर

धनबाद- 826005

दूरभाष-0326-2230276

ईमेल: gmpp@bccl.gov.in

CIN: U10101JH1972GO1000918



Bharat Coking Coal Limited

(A Mini Ratna Company)

Planning & Project Division

Koyla Bhawan, Koyla Nagar

Dhanbad- 826 005

Telephone-0326-2230276

Email: gmpp@bccl.gov.in

CIN. U10101JH1972GO1000918

पत्रांक: बी.सी.सी.एल/महाप्रबंधक(P&P)/फ-76/19/ 27 (H)

Dated-14.03.2019

विषय: Minutes of the meeting held on 12.03.2019 in the chamber of GM(P&P).

महोदय,

A meeting was convened with the officials of CMPDI, Environment Department and Block-II in the Office of the undersigned on 12.03.2019 for Draft Mining Plan and Mine Closure Plan for Amalgamated Block II OC Mine" of Block II Area falling in Cluster-II of BCCL.

The minutes of the said meeting is enclosed.

संलग्नक: यथोपरि

भवदीय

महाप्रबंधक (योजना एवं परियोजना)

Distribution:

- ✓ 1. RD, RI-II, CMPDI, Koyla Bhawan Complex.
2. GM(Block-II), BCCL.
3. Dy.GM(Env.), BCCL.
4. TS to CMD, BCCL.
5. TS to D(T)P&P, BCCL.

ASHOK KUMAR
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Muraidih Colliery

AN-4

Minutes of the meeting held on 12.03.2019 for "Draft Mining Plan and Mine Closure Plan for Amalgamated Block II OC Mine" of Block II Area falling in Cluster-II of BCCL in the chamber of GM (P&P)

1. Final Mining Plan and Mine Closure Plan for Amalgamated Block II OC Mine and Amalgamated Muraidih/Shatabdi-Phularitand Mine will be prepared including forest area for mining operations.
2. Amalgamated Block II OC Mine will be renamed as Amalgamated Block II Mine as there exists a proposed Block II (I/II Seam) UG project.

LIST OF PARTICIPANTS

Sl. No.	Name	Designation	Organisation
1.	Sri N.K. Martand	GM(P&P)	BCCL
2.	Sri A.K. Bal	RD, RI-II	CMPDI
3.	Sri R.K. Sinha	HOD Mining/Env	CMPDI
4.	Sri EVR Raju	Dy.GM(Env.)	BCCL
5.	Sri S.K. Barik	Area Survey Officer, Block-II	BCCL
6.	Sri A.Kumar	Area Manager(Estate), Block-II	BCCL
7.	Sri Jai Prakash	Dy. Manager, RI-II	CMPDI
8.	Sri A.K. Mishra	Dy. Manager, RI-II	CMPDI
9.	Sri U.K. Jha	MT(Env.), Block-II	BCCL

AN-5

ASHOK KUMAR
Project Officer
Muraidih Colliery

②

भारत कोकिंग कोल लिमिटेड

एक मिनीरतन कंपनी

(कोल इंडिया लिमिटेड का एक अंग)

महाप्रबंधक का कार्यालय, बरोरा क्षेत्र

पत्रालय: नवागढ़, जिला: धनबाद (828306)

पंजीकृत कार्यालय: कोयला भवन, कोयला नगर, धनबाद (826005)

सीआईएन: U10101JH1972GOI000918

**Bharat Coking Coal Limited****A Miniratna Company**

(A subsidiary of Coal India Limited)

Office of the General Manager, Barora Area

PO: Nawagarh, Dist: Dhanbad (828306)

Registered Office: Koyla Bhawan, Koyla

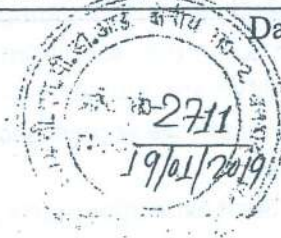
Nagar, Dhanbad (826005)

CIN No: U10101JH1972GOI000918

Ref No: BCCL/GM/AR-1/2019/ 03

Date: 17.01.2019

To,
The Regional Director,
CMPDI, RI - 2,
Dhanbad



Sub: Diversion of DB Road (Dumra-Nawagarh) passing through Phularitand property, Barora Area, BCCL.

Dear Sir,

With reference to item no. 9 of the minutes of the meeting (vide letter no: RD:PS:048:3721-26, Dated 21.12.2018 and RD:PS:048:3800-05 Dated: 29.12.2018) held at CMPDI, RI- 2, HQ on 17.12.2018 for preparation of Amalgamated Mining Plan of Muraidih - Phularitand Mines of Barora Area falling in Cluster - II of BCCL and after all deliberations made with Area Officials of Barora Area, it has been decided that in present scenario it is very difficult to divert the DB Road in western side laying along the Railway property of Adra-Gomoh railway line due to presence of three densely populated villages (Mandra, Ganeshpur and Barwabeda) beside this road.

So it is requested to consider the above mentioned facts during preparation of Amalgamated Mining Plan of Muraidih-Phularitand Colliery, BCCL.

Yours faithfully

General Manager
Barora Area, BCCL

Copy to:

1. GM(P&P), BCCL - for kind information.
2. HOD(Envr.), BCCL - for kind information

minutes to
Planned
21/1/19
HOD (Min)

S. Mohanta / M-55
21.1.19

ASHOK KUMAR
Project Officer
Muraidih Colliery

AN - 6

CHRONOLOGY OF MURAIIDH UG GLOBAL BID PROJECT

- The Project was approved in 265th CIL Board Meeting held on 14.02.2011 for an estimated capital cost of Rs 339.875 Crore. The approved cost includes service and freight. Taxes & duties to be reimbursed on actual.
- Agreement between BCCL & M/s Minop Innovative Technologies (P) Ltd signed on 25.03.2011.
- Amendment of this contract executed on 22.06.2012
- The Consortium submitted its DPR which was accepted by BCCL on 29.01.2013. This DPR was further modified and Supplementary DPR was accepted by BCCL on 24.12.2015.
- Incline drivage at proposed site has been started in Jan'14 and both the drifts have touched the coal seam.
- Air Shaft Excavation started around 23.01.2015.
- Shaft sinking suspended since Dec'2015 as DGMS imposed violation due water logging in working of adjacent Jogidih Colliery. DGMS permission, dated 25.10.2016, has received at colliery office on 07.11.2016 for amalgamation of Jogidih Colliery and Muraidih Colliery and commencement of work for Muraidih UGP.
- Due to non-availability of encumbrance free land, M/s Minop has prepared a "Supplementary note on approved DPR , January 2015" and submitted to DT(P&P) BCCL on 10.02.2015 mentioning new location of Incline and air shaft.
- The same Supplementary note on approved DPR was sent to CMPDI, RI-II vide letter no. BCCL GM(P&P)/F-1A/2015/153 dated 18.04.2015
- CMPDIL, HQ, Ranchi has technically examined the proposal and submitted observation on 20.05.2015 which was sent to M/s Minop for further comments vide letter no. BCCL/D(T)P&P/F-114/2015/33 dated 21/22.05.2015
- Ms/ Minop Innovative Technologies Pvt Ltd submitted their detailed remarks against the observations on technical points which was further examined by CMPDIL
- Regional Director, RI-II vide diary no. 3466 dated 23.12.2015, CMPDIL has technically vetted the Supplementary report subject to compliance of the suggestions given to M/s Minop Innovative Technologies Pvt Ltd
- Regarding the supplementary note, M/s Minop vide letter no. MINOP/BCCL/MRD/15(11)-004 dated 20.11.2015 has clarified that there will not be any change in 1) Method of mining and technology 2) Equipment Specifications and cost of equipment, 3) Rate of progress schedule in terms of mine development and production and 4 Ventilation , pumping, power supply, billing schedules and other financial terms and conditions. The have also confirmed that there will not be any additional cost towards the changes in Incline length and sinking depth of vertical shaft.
- BCCL has approved the "Supplementary note on approved DPR" vide letter no. BCCL/D(T) P&P/F-114/2015/297 dated 24.12.2015.
- Based on the above approved Supplementary note, M/s Minop has constructed auxiliary incline and air shaft at shifted location. Drift drivages have been made upto the coal of Seam-III. Sinking of return Air Shaft with concrete lining (finished Dia 6.0m) has been sunk upto 11m from top of OB dump. A Fan drift of 20m length has also been made upto surface. Near the Incline site, they have constructed two Sheds only. No other infra-structure has been made at the site.

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ASHOK KUMAR
 Project Officer
 Muraidih Colliery



- Opening of LC for procurement of Equipment is delayed as M/S MINOP has asked for modification in terms of payment as contained in the agreement. Work has been suspended by the contractor, M/S MINOP, since 01.06.2016.
- A committee was set up to look into the representation submitted by M/S MINOP. The Committee did not agree with the amendment sought by M/S MINOP in the agreement.
 - The Committee agreed for part shipment of the equipment but affirmed that payment would be made only after receipt of complete set of all equipment.
 - Similarly, the committee also affirmed that there would be no change in payment terms for civil structure and payment would be made only after completion of construction of all civil structure.
 - It was observed that the party has quoted for two complete separate sets of power supports for the two seams of the project but subsequently it has stated in DPR to use the same set of power support in both the seams with the help of conversion kits.
- Subsequently, Representation of M/S MINOP was referred to M/S SBI Capitals, which has submitted its report on 20.12.2016. M/S SBI Capital advised to permit multiple LC facilitating part shipment & payment for imported equipment but did not agree to other demands of M/s MINOP.
- The Report was then referred to M/S Fox & Mandal, Kolkata for legal vetting. Final Report has been received on 26.06.2017. M/S Fox & Mandal while concurring with the recommendation of M/s SBI capital and have also stated that the M/s MINOP should adhere to the list submitted with the price bid. However, in case of any deviation there should be sufficient justification for the same else, BCCL would have the discretion to negate the same.
- The report has been examined by the committee and final report has been submitted. It did not agree for deviation from the equipment list submitted with the price bid.
- MINOP has been asked, vide letter no. BCCL/GM (CMC)/F-Global-Muraidih/2017/516 DT 19.12.2017, to confirm supply of imported P&M as per Price BJD including separate set of Power Supports for the two seams. Its reply is under examination.
- M/s. MINOP has been suspended for six months, in a separate case, vide letter No. GM(MM):000030C:2016:4839 dated 13.02.2017.
- M/S MINOP has been banned in BCCL for a period of 3 years vide letter no. GM(MM):000030(C):2018:2899-2951 dated 18/19.01.2018. Its legal implication on the present contract is under examination.
- Proposal for management decision regarding termination of contract has been initiated in the light of inordinate delay in completion of activities and business ban for three years from 18/19.01.2018. After legal vetting, the proposal is under examination for further needful action.
- Honorable High Court of Jharkhand vide letter no.10 dated 28/08/18 has quashed the "Banning of Business Order" issued to M/s Minop Innovative Technologies Pvt Ltd.
- GM, Barora Area, BCCL has send letter to M/s Minop to commence the work without delay vide letter no. Mur/PO/UG/MINOP/2018/1687 dated 15/12/18 and Mur/PO/UG/MINOP/2019/356 dated 01/03/19
- It is expected that the Contractor is likely to re-start/commence the suspended project work soon.

ASHOK KUMAR
AN-8
Project Officer
Muraidih Colliery

(H)

Under jurisdiction of Dharbad Court and Jharkhand High Court Bharat Coking Coal Limited A Mini Ratna Company (A Subsidiary of Coal India Limited- A Maharatna Company) Regt. Off: Koyla Bhawan, Koyla Nagar Dhanbad-826005 CIN : U10101JH1972GOI000918		Office of the General Manager Materials Management Department Level-III, Commercial Block, Koyla Bhawan, Dhanbad-826005 Phone: 0326-2230181 Fax No.: 0326-2230183 Website: www.bccweb.in
--	---	---

QUASHING OF BANNING OF BUSINESS ORDER

संदर्भ: GM (MM)-000030(C)-2019: 366-434-

दिनांक: - 14.12.2018

सेवा मे,

All HoDs, Koyla Bhawan, BCCL HQ

विषय: Quashing of Banning order of M/s Minop Innovative Technologies Pvt. Ltd.

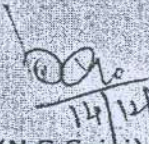
Dear Sir,

Business dealings with M/s Minop Innovative Technologies Pvt Ltd were banned by BCCL vide letter ref. no. 2899-2951 dated 18/19.01.18 for a period of 3 (three) years.

However the Honorable High Court of Jharkhand vide order No. 10 dated 28/08/18 has quashed the "Banning of Business Order" issued to M/s Minop Innovative Technologies Pvt Ltd.


This is for your kind information.

Yours faithfully,



(N S Saini)
GM (MM), BCCL

Copy to:

1. TS to CMD/ TS to D (Fin.)/ TS to D (T) (P&P)/ TS to D (T) OP for kind information
2. CVO, BCCL for kind information
3. GM (MM)/HOD, CIL
4. GM (MM) ECL/CCL/MCL/NCL/SECL/WCL/NEC
6. All Area GMs, BCCL
7. AM (MM) All Areas
8. Office Copy


ASHOK KUMAR
Project Officer
Muraidih Colliery
(H)

AN-S

<p>Under jurisdiction of Dhanbad Court and Jharkhand High Court Bharat Coking Coal Limited A Mini Ratna Company (A Subsidiary of Coal India Limited- A Maharatna Company) Regt. Off: Koyla Bhawan, Koyla Nagar Dhanbad-826005 CIN : U10101JH1972GOI000918</p>		<p>Office of the General Manager Materials Management Department Level-III, Commercial Block, Koyla Bhawan, Dhanbad-826005 Phone: 0326-2230181 Fax No.: 0326-2230183 Website: www.bcclweb.in</p>
---	---	--

BANNING OF BUSINESS DEALING FOR THREE YEARS

Ref. No. GM (MM):000030(C):2018: 2846-98

Dated: - 18.01.2018

To,
M/s. Jaimusi Coal Mining Machinery Co. Limited
3rd floor, Aimer Tower A,
Wanging Development Zone
Beijing-100102
China

(Fax No. 86-10-6439-2990)

Sub: Banning of business dealing

Ref: Supply Order No. BCCL/PUR/610278/Road Header/07-08/09-10/68
Dt. 24.07.2009

Dear Sir,

The above supply order was placed on you for supply of 02 Nos. Road Header against our Tender Enquiry No, BCCL/PUR/610278/Road Header/Global /06/07-08/167 opened on 28.07.2008 for use at Moonidih as per technical specification mentioned in the NIT.

It has been found that you have willfully suppressed facts and violated the contract on the following points:

(A) As per terms of supply order, the Road Headers were to be dispatched only after obtaining approval from BCCL for the machine drawing with hydraulic roof bolt attachment, but you dispatched the Road Headers without obtaining the said approval, **thus violating the terms of supply order.**

(B) LC for 80% value of each equipment and the accessories (FOB value) was to be opened after receipt of authenticated copy of 'field trial permission' accorded by DGMS, India for its use as per duty requirement indicated in the NIT and presentation of following shipping document:

Ashok
ASHOK KUMAR
Project Officer
Muraidih Colliery

(H)

1. Non-negotiable copies of bill of lading
2. Commercial invoices duly signed indicating FOB value
3. Packing List
4. Certificate of origin issued by the manufacturer
5. Price Certificate indicating that the price charged are same as applicable to other customers worldwide.
6. Copies of warranty certificate
7. Copies of freight certificate from the Freight Forwarder.
8. Copies of Work inspection
9. Authenticated copy of field trial permission issued by DGMS, India.

For compliance of "Works inspection", indicated above at sl. no. 8, you submitted "Inspection Report" wherein under the head "Basic Parameter" the overall height of both the Road Headers was indicated as 1.65 Mtrs.

Also, actual measurement in respect of "Overall Height (exclusive of tooth's height of pedrail)", mentioned in the Inspection Report submitted by you, has been indicated as 1650 & 1660 mm for Road Header Sl. No. 1 & 2 respectively against the requirement of 1650 +/- 10 mm.

However, on receipt of both the Road Headers, it was found that overall height of both the Road Headers were higher than the height mentioned in supply order as well as in the Inspection report submitted by you. **This is an act of "willful suppression of facts or furnishing of wrong information".**

(C) As the height of the machine was different from the specification of supply order, the machine was not accepted and after joint inspection you were asked to take suitable action immediately for rectification.

But instead of rectification of the machine, you submitted a letter dated 16/04/2012 citing various excuses for the increased height of machine and finally proposed that if BCCL is unable to accept the machine then it may be sent back to your workshop at China at the cost of BCCL and then you will make suitable modification with respect to the height but therein you put a condition that you would not be held responsible for obtaining any DGMS approval further and it would be the sole responsibility of BCCL towards DGMS approval.

This is breach of terms of contract concluded with you vide above said supply order.

However, your above proposal was not accepted by BCCL and you were asked to submit written affidavit on the following points vide our letter no. 688 Dt. 17/21.05.2012:

[Handwritten signature]

[Handwritten signature: Ashok]
ASHOK KUMAR
Project Officer
Muraidih Colliery

AN-11
[Handwritten mark]

- (a) The cost of installation, erection, commissioning & training charges in US\$ 24,334.43 and in Indian Rs. 2,26,12,581.00 may be released within 30 days of successful drive of 600 Mtr. For each machine, testing of equipment, DGMS field trial approval and final acceptance of equipment along with accessories by Project Officer and Technical Head of the area against an additional BG of Rs. 2,29,39,021.00 i.e. equivalent to earlier BG submitted by the firm.
- (b) Balance 20% of equipment cost may be released after 03 months of final acceptance subject to achieving guaranteed availability of 85%.
- (c) Payment towards domestic supply of spares and balance agency commission may be released half yearly on pro-rata basis subject to achieving the guaranteed availability. These half yearly period will be counted from the date of final acceptance of the equipment.
- (d) The BG shall be released after successful completion period of 36 months.

Accordingly, you submitted written affidavit dt. 14/07/2012 on the acceptance of the conditions indicated above.

However it was observed that you failed to comply with your written 'Affidavit' on the following points despite several persuasions by the concerned area officials:

1. Rectification of problem of Road Header no. 1 had not been done since Nov 15 as a result the machine is idle since then.
2. DGMS field trial approval had not been obtained by your firm since 03/02/16.
3. Both the Road Headers failed to achieve the guaranteed availability of 85%.

The above act on your part is not only tantamount to be against the ethics of business but also a case of forgery.

This was viewed very seriously by BCCL management and invites penal action in line with clause 4.7 "Penal Action against Suppliers" of the CIL Purchase Manual. In view of above, Show Cause Notice was issued to you in order to explain as to why, you should not be banned for submission of forged/false documents and breach of contract with an advice to furnish your written statement of defense. The reply to show-cause notice was submitted by M/s Joy Global (Jiamusi) Mining Machinery Co. Ltd (who stated to have acquired Jiamusi Coal Mining Machinery Co. Ltd), wherein no satisfactory/ specific statement of defense has been submitted.

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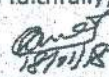
Ashok
ASHOK KUMAR
AN-12 Officer
Muraidih Colliery
(H)

In view of the above, the competent authority of BCCL has decided to impose banning of business dealing with your organization for a minimum period of three years from the date of issue of this banning letter as per provisions of Purchase Manual of Coal India Limited under para 4.7.7(iv, vi, ix & xiii) and 4.7.10

Accordingly, all the business dealings with your organization are hereby banned in BCCL for a period of 3 years from the date of issue of this letter.

This issues with the approval of competent authority.

Yours faithfully,



(U Kumar)
GM (MM), BCCL



Copy to:

1. CMD/D (Fin.)/D (T) (P&P)/ D (T) OP for kind information
2. CVO, BCCL for kind information
3. GM (MM)/HOD, CIL
4. GM (MM) ECL/CCL/MCL/NCL/SECL/WCL/NEC
5. All HODs, BCCL
6. All Area GMs, BCCL
7. AM (MM) All Areas
8. Office Copy
9. JoyGlobal(UK) Ltd, 4 Swanwick Court, }
Alferton, Derbyshire, DE557AS }

- By Airmail



ASHOK KUMAR
Project Officer
Muraidih Colliery

AN-13



भारत कोकिंग कोल लिमिटेड
Bharat Coking Coal Limited
 A Mini Ratna Company
 (A Subsidiary of Coal India Ltd.)

पं.का.: कोयला भवन, कोयलानगर, धनबाद (झारखंड) - 826005

Reg. Off: Koyla Bhan, Koyla Nagar,
 Dhanbad (Jharkhand) - 826005

CIN: U10101JH1972GOI000918

Phone: 0326-2230159 / Fax: 0326- 2230161

E mail: dirpp@bccil.gov.in

डी(टी)पी&पी / D(T)P&P

Ref: BCCL/D (T) P&P/F-114 /2015/ 299

Dated: 18.11.2015

To

M/S MINOP

3F, Gajraj Chambers, 86B/2 Topsia Rd.

Kolkata-700046 (WB)

Sub: Approval of the Supplementary Report on approved Detailed Project Report for development of seam no. I & II by Mass Production Technology package.

Dear Sir,

Subsequent to our acceptance of DPR submitted by you there was some problem in handing over the land at the proposed site of incline and shaft. The matter was discussed with you and it was decided to marginally shift the location of the shaft and incline.

Accordingly, a Supplementary Report on approved DPR was submitted by you. The Supplementary Report was forwarded to CMPDIL who has examined the report and submitted their comments. Subsequently the detailed remarks on the comments was also submitted by you and which was further examined by CMPDIL and now they have submitted their final comments in this regard.

The comments are enclosed herewith for your acceptance. In case the comments / suggestions of CMPDIL are accepted for implementation, the Supplementary Report will be considered for approval.

Further, other than the shifting of locations of the shaft and incline as submitted in Supplementary Report, no other changes will be allowed. The method of work, machineries & its technical specifications, ventilation, pumping, electric supply and others will remain the same as per the original approved DPR.

In addition, there will not be any change in production, phasing of production, cost of the project, billing schedules and other financial terms & conditions as per contract agreement.

You are requested to accept the above conditions and submit your acceptance letter which will enable us to approve the Supplementary Report.

Yours faithfully

(Ashok Sarkar)

Director (Tech) P&P

ASHOK KUMAR
 Project Officer
 AN-14
 Muridh Colliery

(H)



भारत कोकिंग कोल लिमिटेड
Bharat Coking Coal Limited
A Mini Ratna Company
(A Subsidiary of Coal India Ltd.)

प.का.: कोयला भवन, कोयलानगर, धनबाद (झारखंड) - 826005
Reg. Off: Koyla Bhawan, Koyla Nagar,
Dhanbad (Jharkhand) - 826005
(CIN: U10101JH1972GOI000918
Phone: 0326-2230159 / Fax: 0326- 2230161
E mail: dirpp@bccl.gov.in

निदेशक तकनीकी यो. एवं परि. का कार्यालय / Office of Director (Tech) P&P

Ref: BCCL/D (T) P&P/F/14 /2015/297

Dated: 24.12.2015

To
M/S Minop Innovative Technologies Pvt Ltd.
3 F, "Gajraj Chambers"
86 B/2 Topsia Road,
Kolkata- 700046 (WB)

Sub: Development of Muradih Underground mines and extraction of coal from Muradih Seam no.III by Mass Production Technology Package

Dear Sir,

We have received a supplementary report on approved DPR vide your letter no. MINOP/BCCL/MRD/15(02)-002 dt.10.02.2015 for Development of Muradih Underground mines and extraction of coal from Muradih Seam no.III by Mass Production Technology Package with relocating the site of incline and shaft. The same supplementary report on approved DPR was sent to RD, CMPDIL, RI-II for their comments vide letter no. BCCLGM(P&P)/F-1A/2015/ 153 dt.18.04.2015

CMPDIL, Ranchi has technically examined the proposal and submitted their observation vide e-mail sent to RD, RI-II on 20.05.15. The observation as submitted by CMPDIL, Ranchi was sent to M/S Minop Innovative Technologies Pvt Ltd for further comments vide letter no. BCCL/D(T) P&P /F-114/2015/33 dt. 21/22.05.2015.

M/S Minop Innovative Technologies Pvt Ltd vide letter no. MINOP/BCCL/MRD/15(05)-009 dt.25.08.2015 submitted their detailed remarks against the observations on technical points which was further examined by CMPDIL.

Regional Director, RI-II vide diary no.3466 dt.23.12.2015. CMPDIL has technically vetted the supplementary report subject to compliance of the suggestions given to M/S Minop Innovative Technologies Pvt Ltd.

Regarding the supplementary note M/s MINOP vide Letter No. MINOP/BCCL/MRD/15(11)-004 dt. 20.11.15 has clarified that there will not be any change in:

- 1) Method of mining and technology
- 2) Equipment specifications and cost of equipment
- 3) Rate of progress schedule in terms of mine development and production.
- 4) Ventilation, Pumping, power supply, billing schedules and other financial terms & conditions.

Further, MINOP has confirmed that there will not be any additional cost towards the changes in incline length and sinking depth of the vertical shaft and MINOP is agreeable to absorb the cost

ASHOK KUMAR
Project Officer
Muradih Colliery

AN-15

As per Clause No. 7.1.4(e) of the part-II (Price Bid) of the Bid document, CMPDIL is the authorized agency for vetting of DPR. As CMPDIL has technically vetted the supplementary report on DPR subject to compliance of suggestions therein, BCCL do not have any objection to accept the supplementary report on DPR submitted by you subject to compliance of the following :

1) There will not be any change in :

i) Method of mining and technology

ii) Equipment specifications and cost of equipment

iii) Rate of progress schedule in terms of mine development and production.

iv) Ventilation, Pumping, power supply, billing schedules and other financial terms & conditions.

2) No additional cost over the cost indicated in the work order / agreement would be admissible for any increase in the length of incline or allied works.

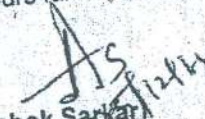
3) The exact width of the barrier should be ascertained and suitable precautionary measures should be taken and maintained for avoidance of danger.

4) As proposed by you the incline should be realigned in lower part of auxiliary incline (beyond 250 meter below the incline mouth) at a deviation of $0^{\circ}56'00''$ S - W direction leading to the increase in centre to centre distance up to 25m/33m between two inclines at a depth of cover of about 90m/150m respectively. Necessary permission should be taken from DGMS before increasing width of the galleries/inclines.

5) Due precaution should be taken during drive and operational stage of the air shaft and long term stability of the same as the same will be passing through consolidated OB dump.

6) The support design and drive parameters for drive of fan drift should be approved by DGMS/Agent/Manager for ensuring the stability of fan drift.

Yours faithfully


(Ashok Kumar)
Director (Tech.) P&P

Copy to :

1. CMD, BCCL


2. GM(Barora)

3. GM(U/G)

4. R.D, CMPDIL, RI-II

✓ 5. GM(P&P)

6. GM(CMC)


ASHOK KUMAR

AN-16
Project Officer

Muridh Colony

(H)



Minop Innovative Technologies Pvt Ltd

Address: 3 F, "Gajraj Chambers", 85 B/2 Topsia Road, Kolkata - 700 046 (W.B.) Tel: +91 33 4004 9558 Fax: +91 33 4004 9559 E-Mail: info.minop@gmail.com

SUPPLEMENTARY

REPORT ON APPROVED D.P.R.

FOR

**Development of Muraidih Underground mines and extraction of
coal from Muraidih Seam no. III and Seam no. I by Mass Production
Technology Package**

For

BHARAT COKING COAL LIMITED

Under The Service Agreement Dated 25th March, 2011

Prepared By

SCIEG BEIJING HUAYU ENGINEERING CO. LTD, CHINA

&

MINOP INNOVATIVE TECHNOLOGIES (P) LTD

JANUARY, 2015



中煤国际工程集团 北京华宇工程有限公司
SCIEG BEIJING HUAYU ENGINEERING CO., LTD.

Page 1 of 29

Ashok
ASHOK KUMAR
AN-17
Project Officer
Muraidih Colliery
①

Ref: MINOP/BCCL/MRD/15(02)-002

Date: 10.02.2015

To,
The Director Technical (P&P)
Bharat Coking Coal Limited
Koyla Bhawan, Koyla Nagar
Dhanbad- 826005

Dear Sir,

Subject: SUPPLEMENTARY REPORT ON APPROVED "Detailed Project Report" For
Development of Muraidih Seam no. I and Seam n II by Mass Production
Technology Package

As per clause no. 2 of our service agreement dated 25th, March, 2011 we submitted our draft D.P.R. on 26/12/2011 and BCCL communicated their approval of D.P.R. vide letter Ref. no. D(T)PP/F-78/2013/34, Dated; 29.01.2013.

Immediately we approached BCCL for handing over encumbrance free project site as per approved DPR and as per advice of BCCL we put continued effort to demarcate project site till June'2013, but it was futile due to tremendous land dispute by private owners whose land was falling within approved project site.

Finally BCCL handed over a part of the land; vide letter no. GM/AR-I/AGM/MINOP/2014/5207, dated: 10/11.02.2014, to relocate the position of Inclines and all other surface Infrastructures so as to reduce requirement of private land to a bare minimum which necessitating shifting of Inclines towards the northern side of the newly constructed metalled village road.



中煤國際工程集團 北京華宇工程有限公司
SCIEG BEIJING HUAYU ENGINEERING CO.,LTD.

Page 2 of 29

Ashok
ASHOK KUMAR
Project Officer
Muraidih Colliery
AN-18
(M)

In view of above we are submitting herewith supplementary report on approved D.P.R.

Supplementary report on approved D.P.R. has been prepared by SIEG BEIJING HUAYU ENGINEERING CO. LTD. known as B.H.E.C., China in active association with MINOP INNOVATIVE TECHNOLOGIES (P) LTD.

We are thankful to BCCL for extending help in necessary surveying and relocating all infrastructures keeping in view the constraints that was faced earlier as mentioned in the enclosed revised report.

We hope that this Final Revised D.P.R. will meet all your expectations.

We will remain thankful if you kindly communicate your approval at the earliest. Meanwhile we continue to work as per the revised DPR to avoid any further delay in implementation of the project.

Thanking you,
Yours faithfully

For, Minop Innovative Technologies Pvt. Ltd.

(Authorized Signatory)

Copy:

- Chairman cum Managing Director, B.C.C.L.
- General Manager, Area - I
- Project Officer (Muraidih)
- Manager in charge of Muraidih Underground Project



中煤國際 北京華宇工程有限公司
SIEG BEIJING HUAYU ENGINEERING CO., LTD.

Page 3 of 29

Ashok
ASHOK KUMAR
Project Officer
AN-19
Muraidih Colliery

(H)

प्राप्त दिनांक: 31.08.2012

100-10127-18211 (P. 4)

३. क-संख्या ।

... ..

中華民國二十一年一月一日

Permission under Regulation 107(1) of the Coal Mines Regulation Act, 1902, for amalgamation of Muradn Collery and Shatabel Collery to form a new collery named as Muradn Collery of H/S. BCL.

the file to your letter Mr. BOULD/THOP/S:ESF-37/Ares-1/2011/112-
23.11.2011 and the plan enclosed therewith having bearing
on the Surface/Ares-1/2011/112-23.11.2011 on the above subject.

2. The Officer has since been examined on the basis of the information furnished. In exercise of the powers conferred on the Chief Inspector of Mines designated as Director General of Mines Safety under Regulations 10(1) of the Mines Regulations, 1957, and by virtue of the authorization granted to me as Chief Inspector of Mines (also designated as Director-General of Mines Safety) Section 5(1) of the Mines Act, 1952, I, hereby grant you permission for amalgamation of Muraidah Colliery and Shatabdi Colliery to form one colliery with the name as Muraidah Colliery of M/s. BCC, shown as A-B-C-D-E-F-G-H-I-J-K-L-M-N-A in the plan No. Muraidah/Surface/Amal/2011/01 dated 21.11.2011 subject to the following conditions being strictly complied:—

Change of name of the mine shall be notified within seven days from the change to the Director General of Mines safety and the concerned Dy. District Magistrate, District of Mines safety and Director of Mines safety in Form-I, as notified by the Government of India in the G.O. No. 145 of the D.M. Mines Regulations, 1957.

ASHOK KUMAR
Project Officer
Muraidin Colliery

For each new boundaries shall be marked on the map by all boundary errors and shall also be shown on all future plans made under Regulation 37 of the Civil Works Regulations, 1957.

They just survey and showing the changed new territory that he grew with the old boundaries.

Each member and person in the room shall be shown on

All "Mining" operations imposed under the Mines Act, 1952, in Queensland
 Owing to the fact of being at least 100 years old, the mine is

The permittee is being issued under the provision 107.1) of the Code of Regulations, 1987, which states that "any other provisions of the Code may be deemed to apply as if specifically stated."

It is any time any one of the foregoing subject in which this permission to
 have been granted is voided or the grant of such permission shall be deemed
 to have been rescinded with irrevocable effect.

above permission may be amended or withdrawn at any time if considered necessary in the interest of safety and/or conservation of life.

पुस्तक संख्या : १२३
प्रकाशक : श्री. वि. प्रसाद
विवरण : पृष्ठ ४५

ASHOK KUMAR
Project Officer
Muraidih Colliery
AN-21

④

AN-21

A ③
B7-1

Bharat Sarkar/Govt. of India
Shri M. Mani Moyn/Ministry of Labour
Kirti Suraksha Mahatideshalaya
Parivartan - General of Mines Safety

No. SHIQ/107/1999

Dated: 14.07.2000

July 2000

To:

The Director General of Mines Safety,
Dumbauld.

For:

Shri R.K. Lal,
Director (Tech), Operations &
Nominated Owner
M/s Bharat Coking Coal Ltd.
Koyla Bhawan, P.O. Koyla Nagar,
Dist. Dhanbad.

Sub: Permission under Regulation 107 of the Coal Mines Regulations, 1957 for
change of mine boundary of Muraidih Colliery to demarcate Shatabdi Mine.

Dear Sir,

Please refer to my letter No. SHIQ/107/1999 dated the 7th February 2000 on the above subject and the plans submitted therewith.

By virtue of the powers conferred on Chief Inspector of Mines (also designated as Director General of Mines Safety) under Regulation 107 of the Coal Mines Regulations, 1957, I hereby permit you to change the mine boundary shown in plan No. B.C.C.L./M.C.O.A. No. 1/1999 (P.O. No. 1/1999) PROJECTIONS 107 (1999) enclosed with the application and to mark the boundary of Shatabdi mine out of the lease hold of Muraidih Colliery, subject to following conditions:-

1. New mine boundary shall be marked on the surface and shall also be shown on all the existing plans maintained under Regulation 59 of the Coal Mines Regulations, 1957.
2. A plan showing the new boundary shall be submitted within seven days of the said change as required under Regulation 3 of the Coal Mines Regulations, 1957.
3. Both Muraidih Colliery and Shatabdi mine shall be under one Agent.
4. Working level of both the mines shall be maintained at the same level. The level shall be at least 100 feet below the level of the creosote in both mines.

ASHOK KUMAR
Project Officer
Muraidih Colliery
(H)

File

A notice of this order is per Regulation 107 of the Coal Mines Regulations, 1957 shall be published in the official gazette of the Government of India.

Verification of the correctness of the facts stated in this order.

This permission may be renewed at any time & considered necessary in the interest of safety.

The permission to work shall not be subject to any other provisions of law, which may be applicable at any time.

If at any time the conditions subject to which this permission has been granted is found to be unsatisfactory, this permission shall be deemed to have been revoked with immediate effect.

Yours faithfully,
Sd/-

Director General of Mines Safety

Government of India, New Delhi, 12.7.1984

Min No. 330/107/1984

Copy for the Director of Mines Safety, P.O. Nagpur, 12.7.1984

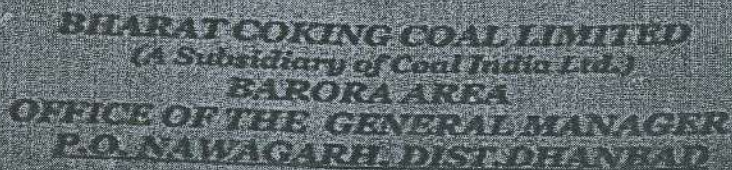
1. The Agent, Mines Safety, P.O. Nagpur, 12.7.1984
2. The Manager, Muradpur Colliery, P.O. Nagpur, 12.7.1984
3. The Coal Mines Inspector, P.O. Nagpur, 12.7.1984

Copy for the Director of Mines Safety, P.O. Nagpur, 12.7.1984

May be sent to Agent.

ASHOK KUMAR
Project Officer
Muradpur Colliery

AM/23
(H)



101 PAC 2010

Send

Thanking you

Yours faithfully,

1. SUPERVISOR
GENERAL INVESTIGATIVE
DIVISION
SARASOTA
GENERAL INVESTIGATIVE
DIVISION

ASHOK KUMAR
Project Officer
Muraidih Colliery

Government of Bihar,
Department of Forest and Environment

Notification

Patna 25.

No. Van Kho Achi (2)17/07-805-G/Pr. Dated 17-7-1997

In exercise of power conferred by section 29 of the Indian Forest Act 1927 (XXIII of 1927), the State Government hereby make the provisions of chapter IV of the Act applicable from the date of issue of the notification on the waste land situated in the district of Darbhanga as specified in the schedule annexed hereto excluding "Forest Land".

The land comprised in this notification shall be called "Protected Forest".

The said land has been made available and transferred to the Department of Forest and Environment, Government of Bihar by Bharat Coking Coal Limited (a Government of India Undertaking) in lieu of diversion of 12.70 acres of forest land for Muraidih Colliery Project of Bharat Coking Coal Limited for compensatory afforestation under the provisions of the Forest (Conservation) Act 1980. As a result of this transfer the ownership of this land (more precisely situated in Bharat Coking Coal Limited) now belongs to the State Government. The possession of the said land has been taken over by Department of Forest and Environment (Protected Forest Division) and it is free from encroachment. Therefore, the said land is free from rights of any private person or community and hence the protection of said land in conformity with protection of rights of private persons and community is prescribed in subsection (3) of section 29 of Indian Forest Act 1927, is not required.

(F) - 1

ASHOK KUMAR
Project Officer
Muraidih Colliery

(4)

RAMUJI KUMAR
Project Officer
Muraidih Colliery

Schedule

Dist	Village	Tahsil	Tillage No.	State No.	Miner No.	Rate (Area) in Acre	
Chambal	Hurlidhi	Topchanchi	342	291	1711	12.24	Government of Bihar
					1045	10.65	
					1056	0.09	
					1028	13.68	
Chambal	Hurlidhi	Topchanchi	342	291	1049	5.10	
						10.70	

By order of Governor Bihar

Janki Prasad Prasad

(Joint Secretary Prasad)

Additional Secretary to Government

आशोक/ 805-ए/आ/ 15, 17-1-1977
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F - (2)

ASHOK KUMAR
 Project Officer
 Muraidih Colliery

ASHOK KUMAR
 Project Officer
 Muraidih Colliery

1. The following is a list of the names of the persons who have been appointed as members of the committee to inquire into the circumstances surrounding the death of the late Mr. Ashok Kumar, who died on 17/2/96. The committee is constituted under the provisions of the Coal Mines Act, 1902, and the Coal Mines (Inquiry) Rules, 1903. The committee is to report to the Government of India, Ministry of Coal, on or before 17/9/96. The committee is to be composed of the following members:

Sl. No.	Name of the Member	Designation	Address	Signature	Date
1.	Mr. Ashok Kumar	Member	221, 1711, 1843, 1846	2-94, 10-65, 10-09	17-60-0
2.	Mr. Ashok Kumar	Member	1858, 1079	13-68, 2-10	

The committee is to be constituted by the Government of India, Ministry of Coal, and its members are to be appointed by the Government. The committee is to report to the Government of India, Ministry of Coal, on or before 17/9/96. The committee is to be composed of the following members:

The committee is to be constituted by the Government of India, Ministry of Coal, and its members are to be appointed by the Government. The committee is to report to the Government of India, Ministry of Coal, on or before 17/9/96. The committee is to be composed of the following members:

ASHOK KUMAR
 Project Officer
 Muraidih Colliery

Ashok
 ASHOK KUMAR
 Project Officer
 Muraidih Colliery
 (H) AN-27

Dist.	Village	Schedule		Area Hrs.	Area Ha.	Area (Aras) In Acres	
		Thana	Thana Nos.				
Dhanbad	Hunda	Topchanchi	342	221	1711	12.94	Government of Bihar
					1045	10.65	
					1042	0.09	
					1020	13.00	
Dhanbad	Haridih	Topchanchi	342	24	1049	5.10	
						10.70	

By order of Governor Bihar

Janki Prasad

(Joint Secretary)

Additional Secretary to Government

आशोक/ १२९१/७१-८०५-ए/३३१ ५२१ १३, १३/७-१-१९७१

प्रतिमान- ५२१, ५१०/३३१, ५२१, ५२१-७ ५२१

प्रतिमान ५२१ ५२१ ५२१ ५२१ ५२१ ५२१ ५२१ ५२१

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F - (2)

ASHOK KUMAR
Project Officer
Muraidih Colliery

ASHOK KUMAR
Project Officer
Muraidih Colliery

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ASHOK KUMAR
Project Officer
Muraidih Colliery
(H) AN-27

Present Status of Forest Clearance of Muraidih Colliery**Status of 29.75 Ha of Forest Land :-****(1st Application) Area falling in Baromessia Mouza:-**

- Offline application for 29.75 Ha, Muraidih Colliery made on 27.10.2010.
- Query raised by Chief Conservator of Forest, Ranchi cum Executive Director on 28.02.2011.
- Letter sent to DC, Dhanbad requesting for the issuance of NOC on 14.06.2011.
- Gram Sabha was conducted by CO, Baghmara on 16.12.2011 and report was sent to DC, Dhanbad on 30.07.2012.
- Reply of the query submitted on 25.02.2013 except NOC from DC, Dhanbad.
- Query raised by DFO, Dhanbad on 16.07.2013 based on the query raised by PCCF, Ranchi. Reminder of the same on 16.09.2015 vide letter no. 1582 from DFO, Dhanbad. (Query : JJ land and mine lease detail).
- NOC under FRA issued by DC, Dhanbad on 12.02.2015.
- Online application is to be made as suggested in the meeting with PCCF on 09.10.2017 and with RCCF, Bokaro on 02.05.2018.
- Proposal no. FP/JH/MIN/32161/2010 has been generated for online application of 29.75 Ha by DFO on May 2018. However the matter is pending with DFO, Dhanbad.
- Meeting with DFO regarding completion of online application which is pending at DFO Dhanbad on 14.08.18. DFO said that there are some technical issues which are faced during uploading of application.
- Again, meeting with DFO on 31.08.18 and they said that the same problem of technical issues. They said that to sort out the technical problem, we are in regular touch with Nodal officer, Ranchi and even in Delhi Head office.
- DFO, Dhanbad submitted the proposal for next level on 22.09.18 with one query of certified land schedule.
- Meeting with DFO on 05.10.18 regarding query for certified copy of land schedule from circle officer, and he agreed for the submission of same with undertaking.
- Query closed on 11.10.18 and same was forwarded to next level from DFO office.
- Visit of DFO Dhanbad on 19.12.2018 regarding inspection and recommendation asked by CF, Bokaro for further progress in work.

ASHOK KUMAR
Project Officer
Muraidih Colliery

AN-28

Status of 16.42 Ha of Forest Land

(2nd Application) Area falling in Barora Mouza:-

- Online application submitted on 21.01.2017 vide proposal no. FP/JH/MIN/23580/2017.
- Query raised on 25.01.2017 and replied on Feb. 2017.
- Since then, the proposal in FC website is being seen as "Proposal under Examination" at Nodal Officer.
- Matter was discussed with Nodal Officer on 20.05.2018.
- Letter has been written to the Member Secretary, MoEFCC on 25.05.2018 regarding the issue faced in the online application.
- Letter has been sent to the APCCF, MoEFCC from Under Secretary to the Government of India on 25.05.2018 regarding the same, in which it is suggested that Regional Office (East Central Zone), Ranchi will take necessary action in this matter.
- Query raised on 11.07.2018 (Query : JJ land details)
- Discussion of query raised on DFO office on regularly basis and finally submission of query 07.08.18.
- Finally, the proposal accepted online on 30.08.18 and acknowledgement slip is generated for the final submission in Hard copy.
- The hard copy of proposal was prepared and proceed for the finally submission at DFO office on 12.09.18, but DFO directed for Major changes in Hard copy line further breakup of land component wise, Latest authorization letter, undertaking for various documents, documentation of file, etc.
- After changes of various details, further approach the DFO office for final submission in hard copy on 05.10.18 and they suggested few changes.
- A letter is sent to DC Office with letter no. GM/AR1/ENV/2018/1019 Dtd. 15.10.18 for FRA certificate.
- 7 Copy of forest clearance has submitted in DFO office on 20.10.18 and the receiving of same uploaded online.
- A letter is received on 23.11.2018 with various query from DFO Office.
- A letter with ref. no. 1449 dtd. 30.11.18 with land schedule is submitted to CO, Baghmara.
- Visit of DFO Dhanbad with RFO on 19.12.2018 regarding inspection and tree enumeration list.
- A reminder letter with ref. no. 1595 dts. 20.12.18 with land schedule is submitted to CO, Baghmara for authentication of land details.
- A letter is sent to DC Dhanbad for NOC of GM Land with vic letter no. GM/AR1/estate/2018/1617 dtd. 22/24.12.2018.

Ashok
ASHOK KUMAR
Project Officer
Muraidih
(H)

- A reminder letter is sent to DC Office with letter no. GM/AR1/estate/2018/1618 Dtd. 24.12.18 for FRA certificate.
- A letter is replied against letter no. dated 23.11.2018 from the DFO Dhanbad with vide letter no. GM/AR1/estate/2018 dtd. 24.12.2018.
- Tree counting of 16.42 Ha of Forest land in Barora Mouza was done 16-01.2019 and sent to RFO Topchachi for further needful action.
- A signed copy of tree enumeration list received from RFO office vide letter no.78 dated 12.02.2019. (Annexure-XV)

Ashok
ASHOK KUMAR
Project Officer
Muraidih Colliery

AN-30



BHARAT COKING COAL LIMITED
 (A Mini Ratna Company)
 (A Subsidiary of coal India Limited)
OFFICE OF THE DIRECTOR (Technical) P&P
 Regd. off: Koyla Bhawan, Koyla Nagar,
 Dhanbad - 826006
 CIN: U10101JH1972GOI000918
 Telephone :- 0326-2230159
 Fax :- 0326-2230161

Ref. No.: BCCL/D (T) P&P/F -12(I)/2019/20

Dated: 25.01.2019
 31

To,
 The Director General of Mines Safety,
 Dhanbad.

Sub: - Application for Permission under Regulation 122 of Coal Mines Regulation, 2017 for Amalgamation of Common Boundary between Muraidih Colliery and Phularitand Colliery under Barora Area of M/S Bharat Coking Coal Limited to form one mine named as "AMALGAMATED MURAIIDIH PHULARITAND COLLIERY (AMPC)".

Dear Sir,

Muraidih Colliery and Phularitand Colliery are two neighbouring mines of Barora Area under M/s. Bharat Coking Coal Limited. Phularitand Colliery is situated at the South - West side of Muraidih Colliery. Muraidih Colliery is being operated by open cast method where as in Phularitand Colliery by opencast as well as UG method but near the common boundary both the mines are being worked by open cast method up to V/VI/VII (comb.) seam at present. There is a common boundary of about 4 kms. between the two mines and about more than 20 millions Te. of coal available under common boundary which will be lost forever. It is intended to excavate the above locked coal under the common boundary by amalgamating both the mines for conservation point of view. The financial impact of the above locked coal is more than of Rs. 4000 Crores which can be conserved by this amalgamation for the benefit of M/s. Bharat Coking Coal Limited as well as Nation as a whole.

In view of the above circumstances, we intend to amalgamate Muraidih Colliery and Phularitand Colliery with the name of "AMALGAMATED MURAIIDIH PHULARITAND COLLIERY (AMPC)" under Reg. 122 of CMR 2017.

Up to date surface plan (Scale= 1:4000), Seam wise Underground plans (Scale= 1:2000), Mouza plan showing status of land and surface plan (Scale= 1:8000) showing existing and proposed Lease Hold boundary in different colours is enclosed in Annexure-I (List of Plans) for ready reference.

Ashok Kumar
ASHOK KUMAR
 Project Officer
 Muraidih Colliery

AN-31

1) Detail Status of workings of Muraidih Colliery and Phularitand Colliery.

Name Of Seam	Muraidih Colliery	Phularitand Colliery
III SEAM, (1:2000)	In Muraidih Section Partially worked out through underground working along outcrop side and a small part of this seam has been worked out through OCP. The seam is unapproachable and waterlogged.	Presently underground working in III seam is being done by Board & Pillar method at P.B. Section through Incline No. 1&2
V/VI/VII SEAM (1:2000) 1 st SECTION	At present Open Cast working is being done. No Underground working but worked through opencast in the entire lease hold area except near south eastern boundary, in the centre of the property named as C.K. Patch (Active fire also exists in C.K. Patch) and in the south western part of the lease hold. The galleries are likely to be waterlogged.	Developed, Partially quarried out and partially goaved out. NO water, no fire in this seam. At present open cast working is being done.
V/VI/VII SEAM (1:2000) 2 nd SECTION	At present Open Cast working is being done. Entire area has been quarried out except a small part standing on pillar near south eastern boundary, in the centre of the property named C.K. Patch (Active fire also exists in C.K. Patch) and in the south western part of the lease hold. The galleries are likely to be waterlogged.	No Underground working but worked through opencast.
V/VI/VII SEAM (1:2000) 3 rd SECTION	At present Open Cast working is being done. Entire area has been quarried out except a small part standing on pillar near south eastern boundary, in the centre of the property named C.K. Patch (Active fire also exists in C.K. Patch) and in the south western part of the lease hold. The galleries are likely to be waterlogged.	Developed, Partially quarried out and partially goaved out. NO water, no fire in this seam. At present open cast working is being done.

ASHOK KUMAR
Project Officer
Muraidih Colliery

V/VI/VII SEAM (1:2000) 4th SECTION	At present Open Cast working is being done. Entire area has been quarried out except a small part standing on pillar near south eastern boundary, in the centre of the property named C.K. Patch (Active fire also exists in C.K. Patch) and in the south western part of the lease hold. The galleries are likely to be waterlogged.	Developed, Partially quarried out and partially goaved out, no water, no fire in this seam. At present open cast working is being done.
VIII SEAM BOTT. (VIII A), (1:2000)	A small area has been quarried out in the out crop region and remaining area is developed and virgin. Unapproachable and likely to be waterlogged.	Open cast working is being done in this seam. Developed in the south side of E.C Rly. Development done through 1K pit & 4 K Pit. Partly developed & standing on pillar and likely to be water logged. Fire exists in western part of rise side near outcrop area working.
VIII SEAM TOP (VIII B), (1:2000)	A small area has been quarried out in the out crop region and remaining area is developed and virgin. Unapproachable and likely to be waterlogged.	Partly developed and depillared in the outcrop area. Seam is not approachable. Open cast working is being done.
VIII C	A small area has been quarried out in the out crop region and remaining area is developed and virgin. Unapproachable and likely to be waterlogged.	Developed, quarried out in the outcropped area, partially goved out. Open cast working is being done.
IX/X	Quarried out in small area near southern boundary.	Presently open cast working is being done. Partially developed. Dip side working water logged. On the rise side Phularitand Workings joined with Muraidih Colliery workings. Developed in the south side of E.C Rly. Development done through 1 K pit, 2K Pit, 3 K Pit, No.1 pIT, nO.2 Pit & 4 K Pit. Partly developed & standing on pillar.
XI/XII	No Seam exists.	This seam outcropped in dip most side of Hired HEMM OCP. left out patch B and Presently open cast working is being done. Development done through 1 K pit & 4 K Pit. Partly developed & Standing on pillar, partly caved.

XIII	No Seam exists.	Developed in the south side of E.C Rly. Development done through 1 K pit & 4 K Pit. Partly developed & Standing on pillar, partly caved.
XIV	No Seam exists.	Developed in the south side of E.C Rly. Development done through 1/ 14 & 2/14 inclines.
XV	No Seam exists.	Developed in the south side of E.C Rly. Development done through 1/15 and 2/15 inclines.
XVI	No Seam exists.	Developed in the south side of E.C Rly. Partly developed & Standing on pillar, partly caved.
XVIII	No Seam exists.	Developed in the south side of E.C Rly. . Partly developed & Standing on pillar, partly caved.
XVIII A	No Seam exists.	Developed in the south side of E.C Rly. Partly developed & Standing on pillar, partly caved.

The Proposed amalgamated mine boundary is demarcated on Surface Plan No.:-

AMPC/SUR/AMAL./01 Dated: 28.08.2018. Details are as under-

Existing Mine Boundary of Muraidih Colliery.	A, A1, A2, B, B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, C, C1, C2, C3, C4, C5, C6, C7, C8, C9, D, D1, D2, D3, E, E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, F, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, J11, J12, J13, J13a, J13b, J13c, J13d, J13e, J13f, J13g, H, H1, J, J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, O, O1, O2, O3, O4, O5, N, N1, N2, N3, N4, N5, N6, M, M1, M2, M3, M4 & A
Existing Mine Boundary of Phularitand Colliery.	P84, B, A2, A1, A, M4, M3, M2, M1, M, N6, N5, N4, N3, O5, O4, O3, O2, O1, P97, P98, P99, P100, P101, P102, P103, P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P31A, P31B, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83 & P84

**Proposed mine boundary
of Amalgamated Muraidih
Phularitand Colliery.**

D, D1, D2, D3, E, E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, F, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, J11, J12, J13, J13a, J13bzJ13c, J13d, J13e, J13f, J13g, H, H1, J, J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, O, O1, P97, P98, P99, P100, P101, P102, P103, P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P31A, P31B, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, C, C1, C2, C3, C4, C5, C6, C7, C8, C9, D

Major violations, notices and orders imposed in both the mines are as listed in Annexure- II and it will remain applicable for proposed new mines (AMALGAMATED MURAIIDH PHULARITAND COLLIERY) also..

Therefore, it is requested that the Permission for amalgamation of common boundary between Muraidih Colliery and Phularitand Colliery as proposed may be granted under Reg. 122 of CMR 2017.

Thanking You.

Yours Faithfully


(N. K. TRIPATHI)

Nominated owner /Director (Tech.) P&P

BCCL

Encl: -

3. As above
4. ISO clearance.

CC To:-

- Dy. Director General of Mines Safety, Region 3, CZ, DGMS, Dhanbad.
- Director of Mines Safety, Region 3, CZ, DGMS, Dhanbad.
- Dy. Director of Mines Safety, Region 3, CZ, DGMS, Dhanbad.

Distribution:-

- General Manager, Barora Area.
- Agent, Muraidih Colliery/ Phularitand Colliery
- Area Safety Officer, Barora Area.
- Manager, Muraidih Colliery
- Manager, Phularitand Colliery
- Office Copy


ASHOK KUMAR
Project Officer
Muraidih Colliery

(H)

BHARAT COKING COAL LIMITED

(A Mini Ratna Company)

(A Subsidiary of Coal India Limited)

Regd. off. Koyla Bhawan, Koyla Nagar, Dhanbad-826005

CIN: U10101JH1912GO000215

Office of the Project Officer, Muraidih Colliery,
Barora Area, PO: Nawagarh Dist: Dhanbad

Ref No: MUR/PO/UG/MINOP/2019/

356

Date: 1/3/19

To

The M/s Minop Innovative Technologies Pvt Ltd.

3F, Geopraj Chambers

85 E/1 Topsia Road, (South)

Kolkata - 700046

E-Mail: info.minop@gmail.com

Subj: To start the work of Muraidih underground project awarded to MINOP

Ref.:

1. NIT No. BCCL/GM(CMC)/T-Global/Muraidih/2010/408 Date: 25.03.10
2. Agreement dated: 25.03.2011
3. Amendment of Agreement dated: 22.06.2012
4. Detailed Project Report (DPR) for the above work as prepared by M/S Minop Innovative Technologies Pvt. Ltd. and duly vetted by CMPDI and accepted by BCC on dated 29.01.2013.
5. Letter no- AMC/PO/2016/3713A Dated-05.06.2016
6. Letter no-MUR/PO/UG/MINOP/2018/1687 Dated-15.12.2018

Dear Sir,

With reference to above it is to apprise that you have stopped the execution of the contract w.e.f. 01.06.2016 without valid reasons and till date there is no resumption of work even after communication with you in this regard vide under reference (5 and 6) as above. It is known to you that, you had participated in the tender for the above mentioned work accepting all the terms and conditions of NIT/Tender document and subsequently entered into agreement/amendment agreement with BCCL vide under reference (2 and 3) as above. After signing the agreement you didn't continue with execution of the contract as per terms and conditions of NIT/Tender document and agreement/amended agreement, instead you have been continuously asking irrelevant queries and demanding subsequent amendments in the agreement.

Your above act is construed as inordinate delay in completion of activities as per clause 4.1.6 of NIT. As such you are once again advised to resume the work immediately.

This is for your kind information.

Thanking You.

Yours faithfully

10/03/19

Engineer Incharge/ Project Officer
Muraidih Colliery

Copy to:

1. TS to CMD, BCCL, Koyla Bhawan
2. Director (P & P), BCCL, Koyla Bhawan
3. Director (Operation), BCCL, Koyla Bhawan
4. Director (Finance), BCCL, Koyla Bhawan
5. Director (Personnel), BCCL, Koyla Bhawan
6. General Manager (CMC), BCCL, Koyla Bhawan
7. General Manager (P & P), BCCL, Koyla Bhawan
8. General Manager, Barora Area

ASHOK KUMAR
Project Officer
Muraidih Colliery

H

AN-36

वन, पर्यावरण एवं जलवायु परिवर्तन विभाग, झारखण्ड



कार्यालय : वन क्षेत्र पदाधिकारी, तोपचांची (राजगंज) वन प्रक्षेत्र
धनबाद वन प्रमण्डल।

पत्रांक :- 78 दिनांक :- 12/02/2019

सेवा में,

वन प्रमण्डल पदाधिकारी,
धनबाद वन प्रमण्डल।

विषय:- बी0सी0सी0एल0 के मुराईडीह कोलियरी के मौजा- बरोरा में 16.42 हे0 वन भूमि अपयोजन के संबंध में।

प्रसंग:- आपका पत्रांक- 1813 दिनांक- 30.11.18

महाशय,

उपर्युक्त विषयक प्रस्ताव की संयुक्त रूप से स्थलीय जांच की गई जांचोपरांत बिन्दुवार वांछित प्रतिवेदन निम्नवत है:-

1. प्रस्तावित वन भूमि का प्लॉट सं0- 10, 168, 169, 942 एवं 946 का कुल रकबा 16.42 हे0 पाया गया।
2. प्रस्तावित वन भूमि का मिलान नक्शे से कर लिया गया है।
3. प्रस्तावित कुल रकबा 16.42 हे0 वन भूमि है जिसमें जंगल झाड़ी शामिल नहीं है।
4. स्थलीय जांच पाया गया कि वर्तमान समय में प्लॉट सं0- 10 के रकबा 5.80 हे0 वन भूमि को छोड़कर शेष प्लॉटों की कुल रकबा 10.62 हे0 बी0सी0सी0एल0 द्वारा उपयोग में लाया जा चुका है।
5. वन भूमि पर स्थित विभिन्न प्रजाति के कुल - 44 वृक्ष अवस्थित पाये गये।

वृक्षों की मापी सूची एवं वन भूमि का प्लॉटवार रकबा तथा उसकी वर्तमान स्थिति से संबंधित संयुक्त जांच प्रतिवेदन मूल रूप में इस पत्र से संलग्न कर समर्पित की जा रही है।

अनुपस्थित।

विस्वासाभाजक

(Signature)
12/02/2019
वन क्षेत्र पदाधिकारी,
तोपचांची वन प्रक्षेत्र

Ashok
ASHOK KUMAR
AN-37
Project Officer
Muraidih Colliery
(H)

क्षेत्रीय संस्थान- 2

कोयला भवन कॉम्पलेक्स
पत्रा. बीसीसीएल टाउनशीप, कोयला
नगर,

धनबाद - 826005 (झारखण्ड)

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फैक्स नम्बर : (+91) 0326-2230500

ई-मेल : rdri2.cmpdi@coalindia.in

वेबसाइट : www.cmpdi.co.in

Regional Institute-II,

Koyla Bhawan Complex,
P.O. BCCL Township, Koylanagar,

Dhanbad - 826005 (Jharkhand)

Phone No. : (+91) 0326-2230850

Fax No. : (+91) 0326-2230500

E-mail : rdri2.cmpdi@coalindia.in

Website : www.cmpdi.co.in

REGISTERED OFFICE

**सेंट्रल माईन प्लानिंग एण्ड डिजाइन इंस्टीच्यूट
लमिटेड**

(कोल इंडिया लमिटेड की अनुषंगी कम्पनी / भारत सरकार की एक लोक उपक्रम)
एक मनी रत्न कम्पनी

Central Mine Planning & Design Institute Limited

(A Subsidiary of Coal India Limited)

A Mini Ratna Company

गोन्दवाना प्लेस, काँके रोड, राँची-834031, भारत

दूरभाष : (+91) 0651-2230002, 2230483



Gondwana Place, Kanke Road, Ranchi -
834008, INDIA

Phone No. : (+91) 0651-2230002, 2230483

ASHOK KUMAR
Project Officer
Muridih Colliery

(H)



BHARAT COKING COAL LIMITED
(A Subsidiary of Coal India Limited)
OFFICE OF THE GENERAL MANAGER
BLOCK-II AREA, PO-NAWAGARAH, DHANBAD-828306
CIN:U10101JH1972GO1000918



Tel. No-0326-2393108/Fax No-0326-2393108

Twitter: @Block2AreaBCCL

Facebook: BCCL Block-2 Area

Capital Investment

The total capital investment of various colliery comes under cluster II groups of mines is as follows:-

Sl no	Name of Mine	Capital Investment (Cr.)
1.	Amalgamated Block II OCP (BOCP & JOCP Mine)	180.109
2.	Muraidih -Shatabdi Group of mines	174.78
3.	Phularitand Colliery	33.716
Total		388.605

31/8/2020
Area Finance Manager
Barora Area

11/9/2020
Area Finance Manager
Block II Area

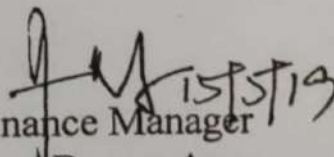
ASHOK KUMAR
Project Officer
Muraidih Colliery

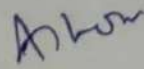


BHARAT COKING COAL LTD.
(A Subsidiary of Coal India Ltd.)
REGD. Office: Koyla Bhawan, Koyla Nagar, Dhanbad-826005
CIN No. U10101JH1972GO1000918
OFFICE OF THE GENERAL MANAGER
BARORA AREA

Declaration

This is to certify that total capital investment for Muraidih UG section as per DPR is Rs 339.875Cr.


Area Finance Manager
Barora Area


ASHOK KUMAR
Project Officer
Muraidih Colliery
(12)