For Addl. Gen. Mgr Barora Area B C.C.Ltd





भारत कोकिंग कोल लिमिटेड Bharat Coking Coal Limited

(A Mini Ratna Company)
(A Subsidiary of Coal India Ltd.)
(www.bcclweb.in)

पं.का -:.कोयला भवन, कोयला नगर, धनबाद --826005, Regd. Off: Koyla Bhawan, Koyla Nagar, Dhanbad - 826005. CIN: U10101JH1972G01000918 दूरभाष: 0326-2230190/ फ़ेक्स -0326-2230050,

बोर्ड सचिवालय Board Secretariat

Ref. No. BCCL:CS:F-1A: 435

Dated:16.09.2019

ईमेल: cos.bccl@coalindia.in

To, GM(P&P) BCCL, Koyla Bhawan.

Sub: Certified copy of Minutes of 354th Board Meeting held on 06.09.2019.

Dear Sir,

We send herewith certified copy of Minutes of Item No. 354.4D, Item No. 354.5D and Item No. 354.6M of 354th Meeting of the Board of Directors of Bharat Coking Coal Limited held at Registered Office, Koyla Bhawan, Dhanbad on 06.09.2019 for taking necessary action at your end.

Encl: As above

Yours faithfully

(B.K. Parui) Company Secretary



Item No. 354.4D

Status for Capital expenditure of BCCL till 31.07.2019 (F.Y. 2019-20).

Board noted the information furnished in the agenda note. Board emphasized the need for spending the capital budget on uniform basis so that the target for spending the capital budget for the year 2019-20 can be achieved.

Item No. 354.5D

ATR & Status of Action Plan to achieve the targets set as part of 100 days program.

Board noted the information furnished in the agenda note and reviewed the status of establishment of Washeries and Maheshpur SILO.

Item No. 354.6M

Mining Plan along with Mine Closure Plan of Amalgamated Muraidih-Phularitand (part) Colliery.

Background:

The proposal for 'Mining Plan along with Mine Closure Plan of Amalgamated Muraidih-Phularitand (part) Colliery' was placed before 15th Empowered Sub-Committee Meeting and 100th Audit Committee Meeting of BCCL held on 05.09.2019. Both Empowered Sub-Committee and Audit Committee agreed with the proposal with modification and the same was recommended for placing before Board for approval.

Decision:

After detailed deliberation following resolution was approved by the Board:

"The Mining Flan alongwith Mine Closure Plan of Amalgamated Muraidih, Phularitand(Part) Colliery having normative capacity of 9.90 MTPA and the total Mine Closure cost being ₹7127.158 Lakhs (Rupees Seven Thousand one hundred twenty seven Lakhs fifteen thousand and eight hundred only), to be deposited in the new Escrow Account, to be opened (including already deposited amount of Rupees three thousand ninety six lakhs seventy two thousand and eight hundred only in two escrow accounts namely Phularitand mixed mine and Muraidih Shatabdi group of mines) already deposited was approved by the Foard. The amount shall be transferred to the new Escrow Account and the expenditure already incurred towards Mine Closure activities shall be claimed from the new Escrow Account".

Certified to be True Con-

B. K. Parel Sub-Committee
Company Secretary
Frarat Coking Coal Limited
Keyle Bhawan
Dhanbad - 20005

The capacity of 3.50 mich and to 1.50 takes (Rupeas Seven Thousand one of a sind and eight hundred daily), to be uponed fluctuating alread thousand nipely six takes seventy two estroy accounts namely Physics and an arrival already deposited was the action of minest already deposited was the arrival and as the secret libiting clean a surface flucture of minest already deposited was the arrival and the secret libiting clean a surface flucture of minest already deposited was the arrival and the secret libiting clean as a surface.



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ईमेल: cos.bccl@coalindia.in

बोर्ड सचिवालय /Board Secretariat

पत्रांकः बीसीसीएल/सीएस/एफ- 1(A)/2021/366(H)

दिनांक: 09.08.2021

सेवा में, विभागाध्यक्ष(परियोजना व योजना) बीसीसीएल, कोयला भवन

विषय : Certified copy of Minutes of 380th Board Meeting held on 02.08.2021.

Dear Sir,

We send herewith certified copy of Minutes of **Item No. 380.6G** of 380th Meeting of the Board of Directors of Bharat Coking Coal Limited held at Registered Office, Koyla Bhawan, Dhanbad on 02.08.2021 for taking necessary action at your end.

You are requested to send the Action Taken Report(ATR) on implementation of the above decision / decisions of Board Meeting(s) for placing before the next Board Meeting.

भवदीय,

Encl: As above

बी.के.पारूई कंपनी सचिव

St Asternad 1518

Item No. 380.6G

<u>Approval for revised Mine Closure Cost in respect of 7(seven)mines of BCCL.</u> Background:

The proposal for approval of revised mine closure plan in respect of five mines (Amal. Muraidih-Phularitand (Part) Colliery, Amal. Block II mine, Bastacolla colliery, Rajapur South Jharia, Madhuband UG mine) and mine closure plan in respect of Bhowrah(North) Group of Mines was placed before 376th BCCL Board held on 25.03.2021 which was approved by the Board. Whereas MCP of two other mines i.e Madhuband & Bera Colliery was approved in 357th & 368th Board respectively.

Decision:

Upon recommendation by ESC in its meeting held on 02.08.2021 to the BCCL Board deliberated the revised mine closure cost in respect of seven

mines of BCCL as under and approved the same:

SI. No	Name of Mine	Updated Rectified Mine Closure Cost (₹)	Amount Already Deposited as on (31.03.20 21) (₹)	Amount to be Deposited Further (₹)
1.	Amalgamated Muraidih- Phularitand (Part) Colliery	79.66391	37.055	42.6089
2.	Amalgamated Block II mine	79.31	18.3778	60.9322
3.	Rajapur South Jharia	26.415	8.275	18.14
4.	Bhowra North Group of Mines	5.638	5.3228	0.3152
5.	Bera Colliery	1.23244	2.75825	0.00
6.	Bastacolla colliery	34.95147	3.1205	31.83097
7.	Madhuband UG mine	2.55029	2.4054	0.14489

It was advised by the Board that amended/fresh tripartite escrow account agreements in respect of the seven mines as above may be signed and the amount accordingly be deposited in escrow accounts for the purpose.

Certified to be True Copy

B.K. Parul
Company Secretary
Bharat Coking Coal Limited
Koyla Bhawan
Dhanbad - 826005

Annexule-1



सीएमपीडीआई

cmpdi

A Mini Ratna Company

सख्त प्रतिबंधित

सरिफ कमपनी के प्रयोग के लिए

इस रिपोर्ट में दी गई जानकारी प्रत्यक्ष या अप्रत्यक्ष रूप से प्रेस या किसी ऐसे व्यक्ती, जो सीआईएल/भारत सरकार का अधीकारी नहीं है, को संबोधित नहीं किया जाय।

FOR AMALGAMATED MURAIDIH, PHULARITAND (Part), COLLIERY

(Falling in Cluster-II Group of Mines of BCCL)

(BARORA AREA)

(PREPARED IN ASSOCIATION WITH BCCL)

August - 2019



सेंट्रल माईन प्लानिंग एण्ड डज़ाइन इंस्टीच्यूट लिमिटिड (कोल इंडिया लिमिटिड, की अनुषंगी कम्पनी/भारत सरकार की एक लोक उपक्रम) पंजीकृत कार्यालय: गोन्दवाना प्लेस, कॉके रोड, रॉंची- 834031 (झारखण्ड) भारत क्षे तरीय संस्थान-2. पत्रा. बीसीसीएल टाउनशीप, कोयलानगर, धनवाद .826005 (झारखण्ड) भारत

Central Mine Planning & Design Institute Limited (A Subsidiary of Coal India Limited / Govt. of India Public Sector Undertaking) Registered Office: Gondwana Place, Kanke Road, Ranchi 834981 (Jharkhand) Regional Institute-II, P.O. BCCL Township, Koylanagar, Dhanbad 826005 (Jharkhand) India CORPORATE IDENTITY NO. U14292JH1975GO 161223

Project Officer
Muraidih Colliery

GMPP-11 17-9-19



भारत कोकिंग कोल लिमिटेड Bharai Coking Coal Limited

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Encl: As above

Yours faithfully

(B.K. Parui) Company Secretary

ASHOK KUMAR
Project Officer
Muraidih Colliery





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RESTRICTED

The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL/ Government.

BHARAT COKING COAL LIMITED

MINING PLAN AND MINE CLOSURE PLAN

FOR

AMALGAMATED MURAIDIH-PHULARITAND(Part) COLLIERY

(Falling in Cluster-II Group of Mines of BCCL)

(BARORA AREA)

(PREPARED IN ASSOCIATION WITH BCCL)

August - 2019

CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.
REGIONAL INSTITUTE NO.-II
DHANBAD

ASHOK KUMAR
Project Officer
Muraidih Colliery



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Job No. 200218023

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2	Annexure-II	Minutes of the meeting for consideration of Forest land during preparation of Mining Plan & Mine Closure Plan of Amalgamated Muraidih-Phularitand(Part) UG Mine, Barora area falling in Cluster-II group of Mines of BCCL which was conveyed at the Office of GM(P&P) BCCL held on dated 12-03-2019	AN4 - AN5			
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List of Annexure





GENERAL INFORMATION

- 1. Name of the Coal Block (Acre/Hactare/Sq.Km) Block: OCP-III Geological Block
- 2. Total Amalgamated Area of Muraidih-Phularitand Colliery(Part): 1118.71 Ha (Falling in Cluster-II Group of Mines of BCCL)
- 3. Name of the Coalfield and its location i.e District and State : Jharia Coalfield,

District-Dhanbad State-Jharkhand

4. Name and Address of the Applicant : Sri C.Kumar

General Manager Barora Area,

Bharat Coking Coal Limited

Post- Nawagarh

Dist.- Dhanbad, Jharkhand

Pin- 828306

 Indication, if it is a Revised Mining Plan and if so, the Revision no. i.e First Revision, Second Revision etc: Not Applicable

6. Total Targeted Capacity

9.90 Mty

(UG- 2.60 Mty, OC- 7.30 Mty)

7. Date of preparation of Mining Plan

: August 2019

8. Indication, if the Mining plan is re-submitted : after incorporation the suggestions of Standing Committee

No

capacity is 12.87 MT PA. but in MP, 14 is 3.90 MTPA.

Job No. 200218023

General Information

ASHOK KUMAR
Project Officer
Restaidih Colliery

SUMMARISED DATA

1. General	\$ 47. LUM 10 10 10 10 10 10 10 10 10 10 10 10 10
a) Name and Addresses of the applicant company	Bharat Coking Coal Limited,
	Public Sector Undertaking, owned by Govt. of India. Koyla Bhawan, Koyla Nagar, Dhanbad-826005, Jharkhand
b) Name and address of the Block allottee	Not Applicable
c) Relationship between the applicant allottee company	Not Applicable
d) Status of the applicant company: Central / Public Sector Undertaking / state Government Undertaking / IV Company/ Pvt Company / Public Co/ Others (Specify).	Public Sector Undertaking
e) Name of the coal block together with name of coalfield & state where located	OCP-III Geological Block Jharia Coalfield, Jharkhand
f) Date of allotment	By Nationalisation
g) End use of coal as per approval by the Competent Authority	As per linkage
h) ROM quantity proposed to be produced as per mining plan	UG- 2.60 Mt / Year OC- 7.30 Mt / Year Total- 9.90 Mt / Year
 Norms adopted for calculating ROM quantity requirement is case is differs from the quantity indicated in the allotment order. 	Not Applicable
j) Beneficiation required – Yes/No	No
k) Requirement of beneficiated coal & expected availability thereof.	Not decided. ROM coal is presently being sent to Power Sector through Railway
Period for which mining lease is to be renewed	30 years
m) Date of Expiry of earlier mining lease, if any	2002 for Coking Coal and 2003 for non Coking Coal.
n) RQP who has prepared the mining plan	COLUMN COMPANY OF THE PARTY OF

The data/information about the colliery and different seam working plans submitted by colliery authority has been kept in mind during preparation of this mining plan. This Mining Plan has been prepared by CMPDI, RI-II in association with BCCL.

ASHOK KUMAR
Project Officer
Muraidih Colliery

Job No.200218023

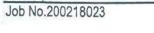
Summarised Data

SD 1



	Information regarding earlier approved M	lining Plans, if any
a)	Approval letter no and date	
b)	Lease Area	
c)	Date of grant of lease	a description of the second
d)	Date of Expiry of lease	
e)	Targeted Production	
f)	Proposed year of start of production	
g)	Propose year of achieving the targeted production level	Not Applicable
h)	Envisaged life of the colliery (in years)	Not Applicable
	Date of actual commencement of mining operations, if operations already started	
	Likely date of Mining Operations, if operations not yet started & reasons for non-commencement of operations	
	Planned production and actual levels achieved in last 3 years.	
,	Coal – U/G	State of the State
m)	Reasons for difference between the planned and actual production levels.	Burney of State of State of State
n)	Reason for revision of the Mining Plan	
- 22	Details of changes in the new mining plan compared to earlier approval	
	Lease Area	- And Subject to Subje
	Block boundary	
(iii)) Production level	
) Reserves	the second of th
81.5	Mining technology / (Additional sheets to be used, if required)	
(vi)) Land use pattern	
E.	Location	8
a)	Location of the Block Taluka / Village / Khasra / Plot / Block Range/ Etc.	The area of OCP III Geological block lies between latitude 23°46′23″ to 23°48′34″ N and longitude 86°12′46″ to 86°15′36″ E (As per GR). The area falls in Open Source Survey of India Toposheet No. (RF-1:50000/Year-2009).
b)	Name of the Coalfield / Coal belt	Jharia Coal Fields
		The block is bounded as follows-
- c)	Particulars of adjacent blocks / Colliery North,	North- Metamophics/Talchirs South- Kharkharee-Dharmaband & Madhuban-
	South, East, West	Phularitand UG Blocks East- OCP-IV Geological Block West- OCP-II Geological Block / Madhuban- Phularitand UG/ Mahuda-Gomoh Rly. Line (S.E Rly)

Projeg Officer
Muraidih Colliery







d) Area of the allotted block (hectares)	AL (Experience year to they am white/the real -
i. Geological block area	1400.0 Ha (OCP-III)
ii. Mining block area	1118.71 Ha
	(Out of which, Project area of 887.75 Ha is considered in Mining Plan of Amalgamated Muraidih- Phularitand (part) Colliery falling in Cluster-III)
 Reference no. of plan of block boundary issued by CMPDI/SCCL / NLCL (a copy of the plan also to be annexed) 	Enclosed Surface Plan
f) Whether the lease boundary / required boundary is same as demarcated by CMPDI/SCCL / NLCL for delineating block / sub-block.	No. Lease hold boundary and Geological Block boundary of OCP-III are different.
g) Existing Mining Lease Area in case of existing Collieries, (hectares)	Lease Hold area of different Collieries – Muraidih Colliery - 536.40 Ha, Shatabdi Colliery - 181.31 Ha
	Phularitand Colliery - 741.88 Ha. (Total area falling in Cluster-II and als in Cluster-XV)
h) Applied / Required Lease area as per the Mining Plan under consideration Add Phulavitand.	For mining operation, DGMS has already give permission for amalgamation of above Muraid Colliery & Shatabdi Colliery and present amalgamated Colliery is named as amalgamate Muraidih Colliery.
	Part of Phularitand total Lease hold area (i.e an area of 401 Ha lying on northern side of D.C Railway line) falls within boundary of Cluster-II group of mines of BCCL.
	For ease of mining operation in Cluster-II, BCCL management has decided to further amalgamate already amalgamated Muraidih-Shatabdih Colliery along with the above part of Phularitand Colliery which falls in Cluster-II. Considering the above, the Amalgamated area of Muraidih-Phularitand (part) Colliery falling in Cluster II is measured as 1118.71 Ha. Details as below-Amalgamated Muraidih Colliery - 717.71 Ha, Phularitand (Part) Colliery - 401.0 Ha. Total Amalgamated area 1118.71 Ha
i) Whether the applied lease area falls within the allotted block	Both amalgamated Muraidih Colliery & Phularitan Colliery (part) are existing Collieries of BCCL and they are lying in geological Block of OCP-III
) Area (hectares) of lease which falls outside the block/ sub-block delineated by CMPDI/SCCL/NLC.	About 146.2 Ha towards northern side of OCP-III Geological Block. ASHOK KUM Project Offic

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Muraidih Colliery

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-	IN Details of a sist	
	k) Details of outside area:	
	 Whether forms part of any other coal block 	No
7	 Whether it contains any coal/ lignite reserves 	It is in Metmophic/Talchirs (Non-coal bearing area)
	- Purpose for which it is required, e.g. roads/ OB	For Quarters(NHS), Magazine, roads, external OB
	dumps/service buildings/ colony safety zone /	Dumps, plantation in future, etc
	others (specify)	
	I) Whether some part(s) of the allotted block has	Yes
	not been applied for mining lease.	
3	- Total area in Ha. of such part(s)	Approximately an area of 487.77 Ha of OCP-III
		geological block falls in Cluster-XV
		geological block falls in Cluster-XV
. 1	- Total reserves in such part(s)	Not yet estimated
	retail received in each part(e)	Not yet estimated
	- Brief reasoning for leaving such part(s)	Environmental Clearance for Calliories folling in
	bher reasoning for leaving such part(s)	Environmental Clearance for Collieries falling in
		Cluster-II group of mines of BCCL is required.
		Hence, the area falling in Cluster-XV has not been
		considered in this Amalgamated Mining Plan.
	m) Type of land involved in Hectares	
	(within the amalgamated area of Muraidih-	**
	Phularitand (Part) Colliery falling in Cluster-II)	Amalgamated Area Project Area
1	- Forest land :-	10.01 Ha 9.54 Ha
	- Other type of land:-	
	- Private/Tenancy land	220.56 Ha } 132.91 Ha }
	- Govt. land	210.35 Ha }-1108.70 Ha 625.11 Ha}- 878.21 Ha
	- BCCL-Land	677.79 Ha }
	Total Land	1118.71 Ha 887.75 Ha
		1110.71118 007.73118
1	n) Broad land use pattern (Forest, Township,	Details of existing Land Use Pattern within
1	Industrial, Agricultural, Grazing, Barren etc.)	Project area of 887.75 Ha is given below-
	modernal, Agricultural, Orazing, Darren etc.)	Project area of 667.75 Ha is given below-
		Dhularitand (Dart) Amala Muraidib
	. Ambiguioty in forest land	(North of DC line) Amalg Muraidih
	med 9.60 Ha + 133.69.	1)Running Quarry
	He	Back filled 7.61 Ha 75.79 Ha
		Not Back filled 34.07 Ha 107.58 Ha 1)Abandoned
	The man and the second of the	
	The latest the second s	
		Not Back filled 0.93 Ha 15.18 Ha
		3) Agriculture Land- 41.68 Ha 54.19 Ha
1		4) Barren land- 78.82 Ha. 63.34 Ha
		5) Homestead- 72.90 Ha 62.03 Ha.
1		6) Service Building- 1.10 Ha 8.38 Ha
1		7) Road (Includ.Haul Rd) 4.95 Ha 3.72 Ha
3	"Tall to page the first please Light	8) Rail - 0.00 Ha 0.00 Ha
		9) Water Body- 2.34 Ha 13.11 Ha
	rente en el el en religio problèmico e	10)Plantation - 15.00 Ha 12.00 Ha
		11)Fire area - 4.54 Ha 12.40 Ha
	o i i i a figura de la figura d	12)Coal dump 0.0 Ha 0.24 Ha
	The last term and the last ter	13)Ext. OB Dump - 6.38 Ha 18.91Ha
		Total 316.10 Ha 571.65 Ha
1		Total Phularitand & Muraidih - 887.75 Ha .
	A-7	· Naw
		Kar
	LW2A	ASHOK KUMAR

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Muraidib Colliery

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Proximity of public road / railway line/ major water body if any and approximate distance.	The area is easily negotiable by Hirak Ring Road (Dhanbad-Chandrapura Road) from Dhanbad town. Distance of proposed Project of Amalgamated Muraidih Phularitand(part)
iguation of 1545	Colliery from Dhanbad town is 40Km.
	2)The Dhanbad-Chandrapura Railway line passes through southern part forms the southern boundary whereas the Gomoh-Mohuda Railway lines of S.E Railway forms the western side boundary of the amalgamated Muraidih-Phularitand (part) Colliery. From Dhanbad Railway station, distance of of Amalgamated Muraidih-Phularitand(part) Colliery is about 35Km.
	3) Khudia(Khodo) Nala is flowing along the north- eastern side of the proposed area of Amalgamated Muraidih-Phularitand(part) Colliery.
p) Topo sheet no. with latitude and longitude	It is included in Open Source Survey of India Topo Sheet No.F45C1. Latitude- 23°46′30.732″ to 23°49′0.436″ N Longitude-86°12′38.997″ to 86°15′15.998" E

F.	GEOLOGY AND EXPLORATION	NC				×
a)	Name of the Geological Block and area in hectares		OCP-III Geological block, Total area of the block is 14 Sq.Km			6)
b)	Name of the Geological Report (GR) with year of preparation		The amalgam in "Geologica Opencast Bloby CMPDIL in	al Report ock-III, Jh	on Explorationaria	on for coal in
c)	Name of the agency which conducted exploration and prepared GR	N	CMPDIL			
d)	Period of conducting exploration		October 1976	to April 1	980	
e)	Details of drilling (by all agencies)	Series	Agency		No. of BHs	Meterage
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BA	CMPDI		23	4876.25
9	v = 1	MR	CMPDI		25	4876.09
		PH	CMPDI	0 2	05.	1045.72
3):		Total		8	53	10793.06
f)	No. of boreholes drilled within the block		53 boreholes	drilled in C	OCP-III geolo	gical Block
g)	Overall borehole density within the block (no./sq.km)		BH Density-	5 borehole	es(approx.)/S	Sq.Km

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	Year of the second	Comb/IV	Virgin	- When	G7 to G9
		IV T	Virgin(Impersistent)	-	1/
		Comb.			G8
		V/VI/VII	7 Seam	- 17.54	G4 to G6
		VIII		W-IV	
		VŲIA	8 Seam	W-IV to UG	G4
	3	VIIIB	9 Seam (Bot)	W-IV to UG	G5-G7
-		VIIIC	9 Seam(Top)	W-III to UG	G5
		IX/X	10 Seam	W-IV	
,	Mean	XI/XII	XI/XII	W-IV	
	GR:	XIII	XIII	W-III	COMING
	Quality(Grade) of coal as per	Geo Name	Colliery. Name	.Coking	Non- Coking
	Range . Mean		Seam wise details of Chapter-IV	Grade are giv	CII III
	per GR:		One was valed a detailer of	Crade are six	on in
	Value (UHV in K. Cal/Kg) as				
m)	Gross Calorific Value (GCV in K Cal/kg) and useful Heat		* a		
	depth of coal seams			*	W
	thickness - Minimum & maximum		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
-	Standard Deviation of				
	coal horizon		a n 1		
-	Mean Thickness of total	*	Table No.		
	seams		Details are given in C	hapter-IV	
_	Thickness range of coal				
)	Number of coal/lignite seams/horizons				
\			Seam-III and seams I	ying below of	this seam.
	suggested and time frame in which it is to be completed		amalgamated area oplan. Area is consider	considered in ered as indica	this minirated area f
9	exploration is required or		upto Seam-III in soil	uth-western c	orner of the
<)	'detailed' exploration. Whether any further		Yes, because no bor	e holes have	been drille
1	has been covered by		this Amalgamated Mir detailed exploration.	ning Plan falls	within the
)	area (no./sq.km) Whether entire lease area		Amalgamated area of	1118.71 Ha c	onsidered i
_	outside the block Borehole density for outside		Not Available		ž.
	No. of boreholes drilled	NV -	Not Available		
	exploration outside the block(hectares)	34	Not Available		
)	Area covered by 'detailed'		Nich Associable		
	block(hectares)		(Part) area falling in C	luster-II)	
)	Area covered by 'detailed' exploration within the		1118.71 Ha (Amalgan		-Phularitan

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	!VB	Virgin (impersistent)	CONTRACTOR OF	G9 to G18
	1 11	111	• 11	G4 to G15
	H	11		G1 to G5
5 20 H 1 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I/II Comb	I/II Comb	-	G4
			-	G3 to G10
Total geological reserves in the block		ent geological res nd(part) Leasehold		
and the last and a second reservoire to the		Geo Name	Colli. Name	Geo.Resv.(Mt)
		XIII	XIII	0.271
		XI/XII	XI/XII	5.229
	-	IX/X	10 Seam	9.83
		VIIIC	9 Seam(Top)	3.827
		VIIIB	9 Seam(Bot)	5.537
		VIIIA	8 Seam	9.296
30	or light of	VIII	U Gealli	1.149
	The state of the s	V/VI/VII Comb.	7 Seam	99.66
terringle is it seem it and it would		IV T	Virgin	2.42
	100/17/15/1	IV Comb /IV	(Impersistent) Virgin	7.64
	*	IVB	Virgin	0.94
		College	(Impersistent)	
ALUMINI TO THE RESERVE OF THE PARTY OF THE P	The state of the s	III	III	50.07
		ll "	- II	12.93
89		I/II Comb	I/II Comb	6.59
and the second s		1	1	31.65
- M		Total	*	247.039
		, a		*/
p) Depletion of reserves (in case of running colliery)		Muraidih OCP wain 1979. Earlier p with the Barora A Shatabdih OC wa The total product since 1989-90 up i) Muraidih- ii) Shatabdi- iii) Phularitand- Total	production data is Area. The Product as started from 2 tion from following	not available tion of 000-01. g Collieries
 q) Additional reserves established (if any for running colliery) r) Geological reserves considered for mining: by opencast by underground 		(Excluding 11 Total UG- 85.9	12.93 Mt of Sear	HOK KUKES
स्तान		*3	P	Project Office Juraidih Collin

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	The state of the s
s) Corresponding Extractable reserves:	
by opencast-	Total OC - 65.48 Mt (Seam-V/VI/VII OCP - 63.35 Mt Seam-III OCP - 2.13 Mt)
by Underground	Total UG- 41.164 Mt (Muraidih UG - 25.794 Mt Phularitand UG(part) - 15.37 Mt)
and much floor grant and	Total (OC+UG) - 106.64 Mt
t) Percentage of recovery w.r.t. geological reserves by opencast	
by Underground	90 % 47.89 %

G. Mining

a) Existing and proposed method of mining (opencast for OB & coal separately with dragline/ shovel / surface collieryrs / manual / etc.) (Underground by long wall/ Bord & Pillar / continuous collieryrs/ LHD/SDL / manual / etc..)

Existing-

Opencast Mining-

In Muraidih Colliery (i.e in area of amalgamated Muraidih & Shatabdi Colliery), a departmental opencast mine is in operation with V/VI/VII seam base. Transportation of Coal & OB is being done with Shovel- Dumper combination. In Phularitand Colliery, a hired HEMM opencast patch is in operation with V/VI/VII seam base. Transportation of Coal & OB is being done with Shovel- Dumper combination.

Underground Mining-

Existing-

In Muraidih Colliery, a Global Bid Project was approved in 265th meeting by Board of Directors of BCCL and work is awarded to the successful Bidder/Contractor (M/s Minop/BHEC Consortium) to extract coal from Seams-III & I by Longwall Technology package. Two numbers of Inclines & drift drivges have been completed by the successful bidder. Drifts have touched the coal of Seam-III. All*type of works was suspended by the Contractor since 01.06.2016 due to financial dispute with BCCL. It is expected that the contractor is likely to re-start / commence the suspended project work soon.

In Phularitand Colliery, two inclines and drift drivages have been made departmentally to approach coal of Seam-III and presently it is being developed by Bord & Pillar method of mining. Coal is being produced by drilling-blasting method at coal faces and transported to surface by SDL-Haulage Combination.

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Proposed-

Opencast Mining-

This Mining plan has been prepared after amalgamating the area of amalgamated Muraidih Colliery & part of Phularitand Colliery falling in Cluster-II. It has been proposed to make one single opencast mine after amalgamation of existing Muraidih Colliery OCP (operating departmental) with existing Hired HEMM patch quarry with base as V/VI/VII seam lying within the Project area.

Another OCP with base as floor of seam-III has also been proposed in area lying in-between Incrop of Seam-III and northern side of Khodo River. As per the approved DPR, Longwall panel of Seam-I has been identified by successful bidder below this proposed Seam-III OCP. To extract longwall panels in Seam-I below this area, earlier developed B&P workings along with virgin areas of overlying Seam-III has to be excavated. Hence, this OCP of Seam-III is proposed in this amalgamated Mining plan. It has to be decided by BCCL whether these OCPs to operated departmentally or Hired basis.

Underground Mining-

In Muraidih Colliery, extraction of Seam-III & Seam-I by longwall method have already been awarded to Bidder/Contractor for 9 years for guaranteed production of minimum 2.0 Mty as per the agreement made between M/s Minop Consortium and BCCL.

Since it is an approved project, hence, same mining strategy is considered in this amalgamated mining plan as it is considered by the Contractor in the approved DPR/ Supplementary Note submitted in January 2015.

In Phularitand, Seam-III is presently being extracted by B&P with SDL-Haulage combination. In this amalgamated mining plan, it has been proposed to extract coal from Seam-III and Seam-I/II(Comb.) & its split section Seam-I by Bord & Pillar method of mining. It has been proposed to operate total two panels with SDL- Belt combination and one Panel with Continuous Miner Package initially in Seam-III property and after extraction of Seam-III, similar number of panels will be also be opened for extraction of underlying Seam-I to sustain the target production from the Colliery.

Both development & depillaring of panels (CM & SDL) proposed in Seam-III and Seam-I/II & its split Seam-I have been proposed keeping in mind that land on surface will be acquired.

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b) The peak capacity as well in addition to Proposed Production from Amalgamated Project area targeted capacity in mtpa when the of Muraidih-Phularitand(Part) Collierycolliery is fully developed and the year which proposed to be achieved-By underground: Underground -By opencast: Normative 2.60 Mty Peak Capacity - 3.38 Mty (i.e +30% of Normative) Opencast-Normative - 7.30 Mty Total: Peak Capacity - 9.49 Mty (i.e +30% of Normative) Normative - 9.90 Mtv Peak Capacity - 12.87 Mty (i.e +30% of Normative) c) Life of the Colliery -Underground workings: For Underground mining - 31 Years (During preparation of underground mining schedule, it has been considered that Contractor will commence its work within the year 2019-20 after settling disputes otherwise the above mentioned life will differ from the figure as proposed in mining plan). The work is suspended since 01.06.2016 due to financial dispute with BCCL. Banning of business imposed by BCCL on M/s Minop has been recently quashed by Honorable High Court, Jharkhand. It is expected that work is likely to be restart / commenced soon. (Mine Schedule Plan has been prepared considering the above) For Opencast mining -11 Years Opencast workings: (Seam-V/VI/VII OCP + Seam-III OCP) 31 Years Total: (Both OCPs proposed to be excavated within this life

Year		Underground Opencast			ROM	Saleable	Washery				
in and pro-		UG Coal production	OC Coal Production		Overall Stripping	coal (Mt)	coal - (Mt) »	rejects (Mt)			
	14	Mt	Mt		ratio (Cum/Te)			9			
	2019-2020	0.045	4.63	, 9.30		-	-		4.675	4.675	7.1
Year wise till	2020-2021	0.06	6.0	12.04		6.06	6.06	221			
targeted	2021-2022	0.38	7.3	14.66	2.04	7.68	7.68				
production is	2022-2023	0.89	7.3	14.66	2.01	8.19	8.19	- 1			
reached	2023-2024	0.89	7.3	14.66		8.19	8.19	. 2			
The state of the state of	2024-2025	2.81	7.3	14.66		ř.	10.11	10.11			
Total for full lif (As per extraction		41.16	65.48	131.48		106.64	106.64	John			

period)

The details of year wise and seam wise coal production Schedule for proposed amalgamated Muraidih-Phularitand(Part) Colliery has been given in Chapter V

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 If so, whether coal/lignite below waste disposal ar 	ea is extractable.
Whether negative proving for coal / lignite in the proposed site for OB dump / infrastructure has bee done.	en No
 Proposed configuration of HEMM for OC (Coal & OB) 	Opencast- Shovel-Dumper Combination
n) Mode of entry for underground Collieries	Existing- Phularitand UG - Two Inclines (one act as Main Intake and another act as Main Return)
	Muraidih UG - Two Inclines/Dri drivages (Intakes) have already bee made up to Seam-III. Sinking of A Shaft (Return) has been done partly Fan drift Completed.
	Proposed- Phularitand UG — Sinking of one A Shaft (up to Seam-I) is proposed to a as Main return in future. To approact Seam-I/II & Seam-I, two drifts from floor of Seam-III has to bee proposed.
	Muraidih UG- Sinking of rest part of the air shaft is to be done. No additional entries are proposed to be made.
Operations that are proposed to be outsource-	Underground- Presently Longwall operation Muraidih Global bid project for extraction of Seam-III & Seam-I has already been awarded to successf Bidder through Global Bidding an it
	an on-going project of BCCL. For Phularitand underground min- one panel is proposed with Continuou Miner operation which may be done to Global Bidding or departmental depends on BCCL. SDL panels will to operated departmentally
OH which the property is	Opencast- Operations of Opencast in proposed amalgamated area to be decided by BCCL

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j) Proposed coal evacuation facilities-	
a) Face to surface -	In Phularitand UG- Proposed- SDL-Belt Conveyor
in the second se	Muraidih UG- Proposed- Belt Conveyor
b) Surface to end use plants-	By Dumpers/Tipping Trucks to KKC Link Railway Siding. By Rail to end users as per linkage (mainly to different Power Sectors). As per the data submitted by mine authority, Supply of coal to MPL is presently being done partly by road & partly by rail.

H. END USE OF COAL			
a) Capacity of the approved end use plants	As per existing linkage of BCCL		
b) Coal/ lignite requirement for end use plant with grade / quality	(As per agreement between BCCL & End Users)		
c) % age of end use requirement to be met from this colliery	Depends on end users requirement		
d) If washing / beneficiation of the coal / lignite is planned to be conducted on site or adjacent to the extraction area, briefly describe the nature of the beneficiation and recovery rate with consumption of water etc.	Presently, no beneficiation of coal produced from existing OCP is being done. It has not yet been decided by BCCL		
e) Proposed Use of Rejects/Middlings	Not Applicable		
I. ENVIRONMENTAL MANAGEMENT			
a) Existing land use pattern	Given in Chapter-IX		
b) Land area indicating the area likely to be degraded due to mining, dumping, roads, workshop, washery, township etc.	Internal OB dump is being done within the excavated area of *OC and also proposed to be made in future. Land reclamation like plantation etc is being made and proposed in future to arrest land degradation in the area.		
c) Surface features over the block area/Colliery	Villages, Basti, High Tension Lines, D B Road, Village road, and other infra structures like, Office Buildings Substation, BCCL Colony, Hospital Dispensary, Temples etc		

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d) No. of villages/ houses to be shifted (Colliery)	A total number of 2146 PAFs (Project Affected Families) are residing within Project Boundary of 887.75 Ha. Out of which, 853 PAFs will be rehabilitated
	and resettled within identified JRDA sites and rest 1293 PAFs will be rehabilitated and resettled at outside of JRDA sites which is identified by Mine Authority. (Details is given in Chapter-X)
e) Population to be affected by	Not available
f) Year wise proposal for reclamation of land affected by mining activities	Year-wise reclamation/plantations are given in Chapter-X
g) Monitoring schedules for different environmental components after the commencement of mining and other related activities.	Air and Water quality is monitored on regular basis by RI-II, CMPDIL

J. PROGRESSIVE AND FINAL COLLIERY CLOSURE PLAN	1	
a) Estimated total capital expenditure for colliery closure activities		
b) Major closure activities with proposed Capital expenditure		
	As per Colliery Closure Plan	
i. Dismantling of Structures	(Details given in Chapter XII)	
ii. Permanent Sealing of colliery entries (incline mouth and air shaft)	(Details given in Ghapter XII)	
iii. Subsidence Management		
iv. Landscaping	at a	
v. Plantation		
vi. Monitoring/Testing of parameters for three years		
vii. Entrepreneurship Development(Vocational/skill development training for sustainable income of affected people	As per Colliery Closure Plan (Details given in Chapter XII)	
viii. Miscellaneous and other mitigative measures		
ix. Manpower Cost for Supervision		

K. OTHERS	
a) Base date of Mining Plan	Dec 2018
b) Calendar year from which the production will start	Muraidih and Phularitand Collieries are two existing Colliery and presently producing coal
 Results of any investigation carried out for scientific mining conservation of minerals and protection of environment, future proposals. 	NA NA

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