



## CCL

सेंट्रल कोल्फील्डस लिमिटेड

(एक मिनिरत कम्पनी)

दरर्भगा हाउस, रांची 834 001 (झारखंड)

W. 80/8/10.

कार्यालय, मुख्य महप्रबंधक( योजना एवम परियोजना)

Ph.: 0651-2360513(O),2360606(PBX) Extn. 5464 (O).

0651-2360010 (Fax)

(Web Site: www.ccl.gov.in)

सेवा में,

महाप्रबंधक ( उत्तर कणेंपुरा क्षेत्र ), सेंट्रल कोल्फील्डस लिमिटेड, रांची.

> In-Principle Approval of Extension Project Report of KDH OCP (Normative capacity 4.5 MTY)

महाशय,

The proposals of In-Principle Approval of Extension Project Report of KDH OCP (Normative capacity 4.5 MTY) was approved in the 370<sup>th</sup> meeting of Board of Directors of CCL held on 19.08.2010. (Photocopy of approval of CCL Board enclosed for ready reference).

It is requested that the activities of the proposal may kindly be started at your end.

Po 604 | 300 RP)

भवदीय,

पी. के. गुड़ेन

मुख्य महाबंधक, (यो एवम परि०)

संल्गनः यथोक्त

प्रतिलिपी:

निदेशक तकनिकी(संचालन) - सूचनार्थ

## CENTRAL COALFIELDS LIMITED. DARBHANGA HOUSE: RANCHI

The Submission Whates The the 500 of 2010) Meeting of the Board of Directors held on 19.08.2010.

Extracts from the minutes of the above meeting, in respect of following item, is appended? below:

Proposal seeking 1st stage 'In-Principle' approval of Extension Project Report Item No.4(1): of KDH OCP (Normative capacity 4.5 MTY).

The Board noted that KDH of RPR (4.5 MTY) was sanctioned by Govt. vide letter po. No.43011/23/2000-CPAM, dated 21.11.2001 for a capital investment of Rs.316.12 erore, which was also completion cost, at February, 2001 price level. The project was completed in March 2002 and the completion report was approved by CCI. Board in its 304th, meeting held on 19.04.2002.

The Board further noted that the present sanctioned KDH Expansion Oct of nearest exhaustion and the mine is likely to be exhausted in 3-4 years. The mine is required to be extended towards the dip side property of the KD South Geological Block and a part of Karkatta TO BE REAL TEST SCHOOLOGICAL BURGERS AND SOME CONTRACTOR OF THE STATE OF THE STATE

The proposed extension will sustain the level of production from the existing KDH OCP for next 25 years and will fulfill the demand of power grade coal from N.K. Coalfield, which will help to reduce, to some extent, the gap in demand and production of CCI, for X1 & X11 plan.

It was viewed that KDH Extension OC was placed in the 15th (No.1 of 2010) meeting of the ESC of Directors held on 25.02.2010. The ESC recommended the proposed Extension of KDH OC (Normative capacity 4.5 MTY) with an additional Capital investment of Rs. 201.43 Crore and at a Financial IRR of 37.80% and 24.33% at 100% and 85% rated output respect PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF

1. As per the new policy for final approval of projects shall be effective only after grant of all clearances was issued by CIL. In 253rd meeting of Board of Directors of Coal India Limited held on 22.12.2009, two stage approval procedure, for approval of the projects, within delegated powers of the respective Boards was approved. Further, the same was discussed in 256th meeting of the Board of Directors of Coal India Limited held on 03.5.2010. The salient points of the deliberations are as follows:

The First stage being the "In-Principle" Approval of PR to facilitate application of for Environmental and Forestry clearances and the Second Stage being the Pinal Approval of the investment decision for implementation of the Project after obtaining succlearances.

In case of proposals of Subsidiary Companies, requiring Cit Board's appropria recommendation of the Subsidian Company Board may a sure Approval of the PR for processing of application for above clearance.

Samipse) Cos

Copies to RD-RITT, GM (NK), CBM(B), CGM (BSF)
CBM (CANO), BM (LAD), BM (ESM), EM (PMD) CU
UNDUSSIONED

 The total extractable reserves have been estimated as 107.15Mtes corresponding to a volume of OBR of 164.99 Meum at an average stripping ratio of 1.54 cum/te.

3. The capital requirements are given below:

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**高端 医2枚200 的现在分词** 

Particulars	Unit	Amount
Additional capital for sanction	Rs. Crs	219.91
Actual capital expenditure upto 31,3.09 considered	Rs. Crs	268.03
Fotal estimated project capital	Rs. Crs	487,94
Capital outlay per tonne of annual output	Rs/t	1084.3
Capital requirement beyond 4 <sup>th</sup> year	Rs. Crs	15.4

4. Phasing of additional capital requirement in Rs. Lakhs is:

A CENTRAL MEDITAL MENTAL P	1	2	3	4	Total
dditional capital	7142.86	7380.40	7170.58	297.05	21990.89
oduction Mty	4.50	4.50	4.50	4.50	

Capital requirement beyond 4th year is for:

A A	(RS. Lakh)	
Electricals .	0.59	
The State of the S	satory Afforestation etc. 14.84	"Dy's Te
TOTAL SECTION AS IN THE	satory Afforestation etc. 14.64	AN CHEM

The additional estimated capital investment (upto 4th year) for KDH OCP has been estimated as Rs.219.91 Crore. The estimated capital investment (beyond target year) is Rs.15.43 Crore

Keeping in view of the above, after detailed deliberation, the Board approved the proposal for 1st stage 'In-Principle' approval for Extension Project Report of Kill ()('P

It is requested kindly to take necessary action on the decision, wherever necessary, under intimation to this office.

(C.V.N. Gangaram) Company Secretary

CGM(P&P)

U.O.No.CS/BM/370/2010/ 1113 Dated: 25.08.2010

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## SUMMARISED DATA

		nt factor ( taken) a ticulars	Unit	girva	ue	
	GENERAL			VOLUCOD.	(4 51 1710	
	Name of Project			KDH OCP		
and the same of th	Type of Project	Markey		Exis		
	Name of Area / Com		(Nissers)	N.K. Area/Central Coal Field L		
4	Nearest Railway Sta	tion from project	Name km	Khalari Railway Station 1km		
5	Nearest National / St	tate Highway / Approach	Name	State Highway 7		
)	road					
В.	GEOLOGICAL					
P 7	Name of geological I	olocks considered	Name	K D South	& Karkata	
2	Area of the geologica	al blocks	sq. km	1,45 Sq. kr	n+.715Km	
3	Borehole Density wit	hin blocks	BHs / sq.km	18	.6	
THE RESERVE THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN T		I seams within block		was deliver t	Marana atas	
7		ickness (m)	No. of borehole intersections	Net Geological Reserves (MT)	Remarks	
5	5.25	Max. 5.85	4	1 , 4-	Reserve not	
arting	28.79	33.20				
4	2.95	5.70	7	2.82		
arting	26.79	42,91			417	
8	0.23	1,45	8	1.42		
arting	5.86	10.00				
2	1.65	7.04	10	6.38		
rting	2.43	18.00			4	
h	1.74	4.53	11	4.13		
arting	3.42	14.61				
arkata	2,12	6.15	9	4.75		
arting	17.35	40.90				
isrampur	1.60	6,15	23	24.07		
arting	5.58	22.87				
ukbuka	10.12	22.38	25	40.70		
arting	25.46	34.90				
arting (Between akra Top and ukbuka)		29.54			t.	

Dakra Top		0.72	11.	89		21.33	
Parting.,:		1.44	7.3	24	The second second second	4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	recorded a
Dakra Bot		15.57	21	37		59.32	
TOTAL						164.93	
C.	TECHNICAL		- CONTRACTOR -				
142	I CONTRACTOR	MARKET I	14 0150 1400		122 PAG	1.75	
1	Area of the proposed mine block  Borehole density within mine area		sq. km				
2	-		ithin mine are	a	BHs/sq. km	16	
3	Mine pa	arameters:	Estant along	atelles (Ava )	km	271227	
		_		strike (Avg.) ng dip (Avg.)	km	1.43	
4	Beerla	New of seal		THE RESERVE OF THE PERSON NAMED IN	MH	0.70	
4			seams proposed to be the parting details				
Name of seam	Thic re cons	along with ckness inge sidered (m)	Av. Thickness / Parting Thickness	Av. Grade (U.H.V.) K. Call/Kg	Av. gradient (deg)	Mineable Reserves (Mt)	Volume of OB (Mcum
	Min	Max	- (m)				
Тор ОВ		100	34.10				40.77
K3	1.00	1.45	1.05 -	2830	6-8	0.84	
Parting	5.86	10,00	8.90				7.34
K2	1.65	7.04	4.88 -	3905-4140	6-8	4.49	
Parting	2,43	18.00	6.60				3.73
K1	1.74	4.53	2.25 -	4185-5215	6-8	2.45	
Parting	3.42	14.61	8.10				8.01
Karkata	2.12	6.15	4.37 ~	3670-4650	6-8	4.18	
Parting	17.35	40.90	23.00				22 72
Bisrampur	1.60	6.15	4.26 ~	2995-4290	6-8	14.54	
urting	5.58	22.87	13.00				17.94
Bukbuka Top	0.82	2.00	1.00	2995-4290	6-8	4.80	
Parting			0.50				9.61
Bukbuka Bottom	9.30	20.40	16.5	2995-4290	6-8	30.77	
Parting			21.40				36.59
Upper Dakra	1.00	11.89	4.93 V	3695-4515	6-8	7.81	
Parting	1.44	7.24	2.60				18.28
Lower Dakra	15.57	21.37	20.03 ~	2550-3545	6-8	37.25	
Total Coal OB					E.	107.15	164.99
5	Av. Stric	oping Ratio			m³/t	1.54	
6		of Mining				by Shavel-Dumper Comb	omation

211								
7	Target Output  Normative production capacity (at 100%)  Peak production capacity (at 115%)  Production capacity (at 85%)			Mt Mt Mt		4.50 5.175 3.825		
8						1 <sup>st</sup> Year		
9	Year of st	art of Internal Dumping				1 <sup>st</sup> Year		
10	Production target year	n Phasing (from zero d ir)	ate upto	Mt				
Ye	ar	Year 1	Year 2	2	Year 3	Year 4		
Coal	-	4.50	4.50		4.50	4.50		
OB (M	ALCO AND ADDRESS OF THE PARTY O	7.0	7.0		7.0	7.0		
11		e Life (at Norm. produc	tion capcity)	Year	S	25		
	A POSSESSION OF THE SECOND	Pre-constr		Year	S	NA:		
		Const	ruction period	Year	S	Nil		
		Production by	uild-up period	Year	s	Nil		
		Prod	luction period	Year	s	22		
		Tapering / mine of	losure period	Year	S	3		
12	Major HE	MM Deployed for Coal		Capac	city	(Up to Tgt Yr)		
		Electric	Rope Shovel	(5 Cu	m)	3		
			Rear Dumper	(50/60	OT)	19		
			Drill	(160 n	nm)	4		
			Dozer	(410 F	IP)	4		
13	Major HE	MM Deployed for OB (	Up to Tgt Yr)	Capac	city	(Up to Tgt Yr)		
		Electric	Rope Shovel	(10 Cu	ım)	3		
			Rope Shovel	(5 Cu		1		
		A STATE OF THE STA	Rear Dumper	(100	-50	23		
			Rear Dumper		(60T) 6			
			lec. RBH Drill	(250 n		4		
-0			Dozer	(410 H	200.00	8		
14	Total May	npower (Up to Tgt Yr)		36		(Up to Target Year)		
144	TOTAL IVIA	thower (ob to (8t (1)	Existing	Nos		1023		
			Additional	Nos	~	Nil		
45	Ouesell O	output per manshift (ON				Main Variant		
15	Overall C	aupat per memorins (On	2247	Tonn	es	16.66		
16 -		se weighted average gr	rade of coal			Grade 'E'		
17	Presence	(non-coking/coking)  Presence of Major Surface Constraints (nallas, road, power line, etc.)			Kend	oba Nala in Eastern side, dua nala in western side and and Barkitand village		

	200 (200 acceptance)			By Dumpers
18	Coal Transport within the mine	Touck		
	(In-pit belt conveying system or b	y (TOCK)		By Truck
19	Surface Coal Transport to Siding	Despatch		
(10)	Point and Mode of Despatch		D	akra Siding at 1.5km from Project
20	Any Railway Siding and distance	E CONTROL		3
21	Name of any Specific Customer	Industry		
D.	ENVIRONMENTAL & OTHERS			
1	Carel Construction		Nos.	563
14	Resid	dential houses	%	55
	Housi	ng satisfaction	Kipd	
2	Water Demand		Kipo	513.75
4	New Age	Colony	A.	773.32
		Industrial	На	195.96
3	Total Land required	201	На	101.06
0.	To the second se	Forest land	Ha	25.66
		GMK Land	Ha	69.24
		Tenancy land	Ha	Nil
a.	Land to be acquired for extern	al dumping	Rs.Lakhs/Ha	7.84
4	Net Present Value of Forest L	and	Ha Ha	101.06
5	Netriosa	LOIGI ALCO	Rs Lakhs	792.31
		Total Value	NS.Lanno	
6	Habitation & Rehabilitation		Nos	2
ь	No of villages within	mine boundary	INUS.	800
	No. of PAFs to	be rehabilitated		
7	Cost of land & Rehabilitation	Va 5 14	Rs. crores	16.05
1	0000	Total Cost	Rs. crores	800.00
		R&R only	Rs crores	20.67
	Total EMP Capital			1250
8	A compa annual rainfall	and the section	mm	208310
9	Make of Water on the day of	Maxm Rain fall	cum/day	530
10	Tatal localled numping capt	acity	lps	Through Sonadoba Nala & Kendua
11	Drainage of the Area (Name	of river/nalla)		Nala to Damodar River
12				None
1996	Any proposed diversion of r	nala or power line		and the same of th
13	Any proposes are			Coal & OB Both Departmental
E	FINANCIAL			
	Manager Dec.		Rs. crores	268.03
1	Total Capital Investment		Existin	19
			Addition	al 207.27
			- Making Con-	475.30

	The second secon			
2	Specific Investment	Rs. / tonne		
		Total	1056.23	
100		Additional	460.61	
1	y is ad	Rs./m3		
	68.77.63	Total	679.01	
		Additional	296.10	
3	Total Capital Investment on P&M	Rs. crores	N V V V V V V V V V V V V V V V V V V V	
		Existing	228.55	
	The state of the s	Additional	140.84	
4	Specific Investment on P&M	Rs. / tonne	ASLES MIL	
		Total	820.86	
		Additional	312.97	
5	Capital requirement upto target year	Rs. crores	d 465.71 .	
6	Year of opening of Revenue account (from ze	ro date)	1st year	
7	Earnings per manshift (EMS) (target year)	Rs.	1548.28	
8	Estimated Cost of Production	Rs. / tonne		
	At 100	% production level	464.06	
	At 85	% production level	531.74	
9	Estimated average selling price	Rs. / tonne /	773.00	
10	Estimated Profit	Rs. / tonne		
	At 100	% production level	308,94	
	At 85	% production level	241.26	
11	Financial Internal rate of return (FIRR)	%	2	
	At 100	% production level	34.21%	
	At 85	At 85% production level		
12	Economic rate of return (only for projects to be approved by Govt.)	%		
	At 1009	% production level	43.16%	
	At 859	% production level	29.87%	

13	Desired av. Selling Price to yield 12% FIRR	Rs. / tonne	*
	At 100%	587.75	
	At 85%	677.53	
14	Break-even point	12.10	
	Production	Mty	2.49) TatoT
	Production level	%	55.39
15	Cost of Outsourcing (average)		
	OB	Rs/m3	
	Coal	Rs/tonne	
16	Mine Closure Cost (for corpus fund) / te.		6.89
17	Expected Completion Capital	Rs. crores	502.17
18	Financial IRR for completion cost	%	32,54%
19	Economic IRR for completion cost	%	41.52%