

RESTRICTED

कोल इंडिया



Coal India

Coal India

EASTERN COALFIELDS LIMITED

(ईस्टर्न कोलफील्ड्स लिमिटेड)

**A SHORT PROFILE OF
SONEPUR BAZARI OPEN CAST MINE**

(सोनपुर बाजारी खुला खदान का संक्षिप्त विवरण)

Date: 24-12-2001

1. LOCATION :

Sonepur Bazari OCM (Sonepur Bazari 'A') is located in the eastern part of Raniganj Coalfields in the district of Burdwan, West Bengal. The mine is well connected by roads and railways . Raniganj-Suri Road passes by the side of the project and joins G. T. Road about 14 Kms of the project. The mine site is 35 Kms from Asansol and 40 Kms from Durgapur. Ukhra Railway Station on Andal – Sainthia line of Eastern Railway is only 1.5 Kms to the south .

2. SAILENT FEATURES OF SONEPUR BAZARI OCM :

(as per approved RCE, March '94)

a)	Capacity	Coal 3.00 million tones / annum	
b)	Stripping Ratio	4.72	
c)	Capital Outlay	Sanctioned - Rs 650.21 crores Actual exp. - Rs 485.14 crores (upto 31-03-99)	
d)	Manpower	1427	
e)	O. M. S.	7.98	
f)	Reserve Life	188.26 million tones 66 years	
g)	Coal Seam	Cover R - VI	30 m 8 m
		Parting R - V	30 m 9.5 m
		Parting R - IV	32 m 4 m

3. METHOD OF WORK :

The mine is worked both by shovel / dumper combination and dragline.

Top soil OB is being excavated by shovel-dumper upto 10m without blasting. Excavation of OB from R – VI, R – V & coal from R – VI, R – V, R – VI is also done by shovel – dumper after drilling & blasting.

Dragline is used for excavation of parting (25 – 30m) between R – V floor & R – IV top after drilling & blasting .

Drilling : Electric 250 mm dia drills are used for drilling in OB & 160mm dia diesel operated drills are used for coal.

Blasting : Controlled blasting technique is adopted to prevent flying fragment and to control ground vibration with Excel and Noiseless Trunk line Delay (NTD) . Mostly Site Mixed Slurry is used as explosive.

4. EQUIPMENT PROFILE

Sl. No.	Equipment		Total No. as per PR	On Roll
1	DRAGLINE	7820 MARION	1	1
2.	SHOVEL	P&H 1900AL ELECTRIC	6	6
		EQC / EKG 5A	3	3
		300 CK POCLAIN HYDRAULIC	2	2
		PC 650 - 3 HYDRAULIC	1	1
		H55N DEMAG HYDRAULIC	1	1
		PC 220 HYDRAULIC	1	2
3.	DRILL	IDM 70E	} 10	5
		RECP 750E		4
		ROTACOAL	} 5	3
		RECP 650		2
4.	Dumper	445 E DUMP TRUCK	35	35
		LW 35 DUMPER	19	19
		210 M DUMPER	29	8
5.	Dozer	D 155A-1	7	5
		D 355A -1	11	11
6.	Water Sprinkler	WS 1035	4	4
7	Grader	16GCAT	4	4
8.	Crane	90T		1
		70T		1
		40T		1
		8T		2
		PINGUELY		1

5. MANPOWER (AS ON 01-12-2001) :

	Area Office	Project Office	Area as a whole
Executives	31	69	100
Monthly Rated	76	233	309
Time Rated	22	1233	1255
Trainee	-	1	1
Total	129	1536	1665

6. PLANTATION :

Year	Plantation Done (Nos.)	Survival (%)	Survival (Nos.)	Area Covered (Ha.)	Expenditure incurred (Rs. in lacs)	Remarks
1996-97	25000	82	20600	10	2.75	Planted through Forest Deptt., West Bengal.
1997-98	37500	84	31600	15	4.40	Planted through Forest Deptt., West Bengal.
1998-99	41750	81	34000	16.7	5.39	Planted through Forest Deptt., West Bengal.
1999-00	-	-	-	-	-	Planted through Forest Deptt., West Bengal.
2000-01	25000	Under maintenance	Under Maintenance	10	3.88	Planted through Forest Deptt., West Bengal. Partial Payment done.
2001-02 (upto September)	15000	Newly planted	Newly planted	6	2.69	Planted through Forest Deptt., West Bengal. Partial payment done.

7. LAND :

Total requirement of land	1400.02 Ha.
Land under physical possession :	
Mining and infrastructure	674.75 Ha.
Railway Siding	66.86 Ha.
Rehabilitation Site	52.56 Ha.
Total -	794.17 Ha.
Employment already offered	769 heads
Physical possession to be taken	97 Ha.
Compensation to be paid against land acquired under C. B. A. Act	Rs. 80 lacs (approx)
Direct purchase of land	Rs. 1.27 lacs
Payment of subsistence allowance	Rs. 35 lacs yearly

8 REHABILITATION :

A) Villages already rehabilitated		
(a) VILLAGE : RUIDASPARA		
Total no. of families		64
No. of families already rehabilitated		64
(b) VILLAGE : PUNJABIDANGA		
Total no. of families		119
No. of families already rehabilitated		119
B) Villages to be rehabilitated		
(a) VILLAGE : BHELADANGA		
Total no. of families		80
Fund involved -		
Construction of houses		Rs. 60.00 lacs (approx.)
Shifting & Settling allowance		Rs. 5.60 lacs (approx.)
Infra-structural facilities		Rs. 13.00 lacs (approx.)
Cost for registration of Deed of Licence		Rs. 2.50 lacs (approx.)
Total -		Rs. 81.10 lacs (approx.)
(b) VILLAGE : HANSDIHA		
Total no. of families		250
Fund involved -		
Construction of houses		Rs. 150.00 lacs (approx.)
Shifting & Settling allowance		Rs. 17.50 lacs (approx.)
Infra-structural facilities		Rs. 33.00 lacs (approx.)
Cost for registration of Deed of Licence		Rs. 4.00 lacs (approx.)
Total -		Rs. 204.50 lacs (approx.)

9. HOUSING

A) NO. OF HOUSES EXISTS								
	NHS	'B' (D/S)	'B' (T/S)	'C' (T/S)	'D' (S/S)	Hostel	LCH	Total
Rabindra Nagar Colony	396	28	150	-	-	40 seated	-	614
Krishna Nagar Colony	8	-	10	24	8+1 (G.House)	20 seated	-	71
Haripur	32+50 (Reh)	-	20	20	2	-	25	149
TOTAL :	486	28	180	44	11	60 seated	25	834

B) STATUS OF HOUSES REPAIRED, BUDGET, EXPENDITURE FOR THE YEAR 2000 - 01 :				
(1)	From GM's Level		Budget Allocated (Rs in lacs)	Expenditure incurred (Rs in lacs)
(a)	No. of Quarters repaired		392	6.50
(b)	Cleaning & up keeping of colonies	3 (Colonies including Dispensary at R. N. Colony)		2.56
(c)	Supply of water to individual units of colonies	3 (colonies)		1.03
(d)	Cleaning & up keeping of public building : Area Office complex	1		0.30
	T. T. C. Building	1		0.60
(e)	Repairing of building & maintenance of water supply installation	Area Office Complex		1.37
(2)	From Project Office Level			
	No. of Quarters repaired		113	9.00
	Total no. of houses repaired		505	21.36
N. B. : Roof repairing by Tar felt done - 2000 -01				

C) PROGRAMME FOR REPAIRING & MAINTENANCE OF HOUSES IN 2001-02 :			
		Short term	Long term
From GM's Level	R. N. Colony	520 nos.	150 nos.
	Haripur	32 nos.	-
	Krishna Nagar Colony	34 nos.	20 nos.
From Project Office Level		30 nos.	50 nos.
Total		616 nos.	220 nos.
Roof repairing by Tar felt - Project Level			40 nos.
Grand Total		616 nos.	260 nos.

D) BUDGET ALLOCATED FOR WELFARE WORKS IN 2000 - 01 :		
1)	Repairing & maintenance of Township	Rs. 22.00 lakh
2)	Water Supply	Rs. 02.00 lakh
3)	Roof Repairing	Rs. 05.00 lakh
4)	Medical Facilities	Rs. 12.00 lakh
5)	Medical Services	Rs. 10.00 lakh
6)	Other Welfare	Rs. 05.00 lakh
Total		Rs. 56.00 lakh

10. WATER SUPPLY :

RABINDRA NAGAR COLONY (CHINCHURIA) :	
Source of Water Supply	R.C.F.A. (P.H.E.) Deptt. of Govt. of West Bengal). Searsole Supply Point, Raniganj.
Underground Reservoir	1 (one) - 1,00,000 gallons capacity
	1 (one) - 30,000 gallons capacity
Overhead Tank	1 (one) - 1,00,000 gallons capacity
Deep Tube Well	1 (one)
Masonry Well	17 (Seventeen)
VIVEKA NANDA NAGAR COLONY (KRISHNANAGAR) :	
Source of Water Supply	R.C.F.A. (P.H.E.) Deptt. of Govt. of West Bengal). Searsole Supply Point, Raniganj.
Underground Reservoir	1 (one) - 30,000 gallons capacity
Overhead Tank	Nil
Deep Tube Well	Nil
Masonry Well	2 (two)
HARIPUR COLONY (S. B. PROJECT) :	
Source of Water Supply	R.C.F.A. (P.H.E.) Deptt. of Govt. of West Bengal). Searsole Supply Point, Raniganj.
Underground Reservoir	1 (one) - 1,00,000 gallons capacity
	3 (three) - 30,000 gallons capacity
Overhead Tank	1 (one) - 10,000 gallons capacity
Deep Tube Well	1 (one)
Masonry Well	2 (two)

11. SAFETY STATUS :

A) ACCIDENT STATISTICS :							
Year	Fatal	Serious	Reportable	Fatalities Rate			
				Per mt Of output	Per lakh Manshift		
1998	0	3	18	0.00	0.00		
1999	3	6	20	1.55	2.15		
2000	0	3	18	0.00	0.00		
2001 (upto Sept'01)	0	3	12	0.00	0.00		
B) STATUS OF SAFETY MATERIALS :							
Year		Mining Shoe (pairs)	Helmet (nos.)	Gum Boot (pairs)	Dust Mask (nos.)	Hand Gloves (pairs)	Eye Goggles (pairs)
1998-99	Received	3140	1300	Nil	400	Nil	Nil
	Issued	3140	700	Nil	400	Nil	Nil
1999-00	Received	2600	Nil	300	500	20	Nil
	Issued	2600	500	300	500	20	Nil
2000-01	Received	1000	1000	Nil	200	50	Nil
	Issued	1000	220	Nil	200	50	Nil
2001-02	Received	500	350	200	800	100	25
	Issued	360	300	200	550	80	25
Stock as on 30.09.2001		140	940	Nil	1250	20	Nil
Total Manpower to whom to be issued as on Sept'2001		1410	1410		950	130	45

YEARLY DATA, FOR PRODUCTION, DESPATCH, OMS, COST etc. :

COAL PRODUCTION : (Figure in '000 tonnes)

Year	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Annual
01-02	225.18	235.20	252.50	250.50	237.00	250.70	325.50	320.00					2096.50
00-01	163.50	160.00	116.00	173.00	151.50	237.00	225.00	181.00	241.00	280.00	230.50	342.50	2501.00
99-00	44.00	103.50	47.00	39.00	81.50	135.00	152.00	190.00	285.00	210.00	205.00	219.00	1701.00
98-99	212.10	131.00	120.00	190.00	158.00	130.00	140.00	201.00	235.00	280.00	202.20	391.80	2281.00
97-98	102.50	112.10	107.30	102.40	105.00	150.70	146.30	163.00	225.60	258.50	351.00	571.60	2403.00
96-97	150.18	120.00	97.20	81.00	14.30	4.60	155.50	119.00	150.00	287.00	213.00	359.30	1751.00

upto Nov'01

O. B. REMOVAL : (Figure in '000 m³)

Year	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Annual
01-02	831.00	965.50	970.00	1020.00	894.00	825.00	981.00	975.00					7461.50
00-01	762.50	590.00	596.00	643.00	661.00	650.50	904.00	835.00	948.00	985.00	718.00	1067.00	9360.00
99-00	805.00	607.00	648.00	285.00	414.00	461.00	409.00	886.00	1115.00	724.00	751.00	958.00	8063.00
98-99	874.00	641.50	513.00	483.00	365.00	535.00	607.00	941.50	1230.00	1289.00	1099.50	1031.50	9610.00
97-98	674.00	635.00	645.00	370.00	326.40	392.50	736.60	872.00	1066.90	1111.00	1042.00	730.60	8602.00
96-97	609.00	698.00	400.60	295.00	108.50	210.00	312.80	436.00	697.00	559.32	718.72	1133.56	6204.50

upto Nov'01

DESPATCH : (Figure in '000 tonnes)

Year	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Annual
01-02	271.86	350.61	282.94	245.69	236.61	253.68	325.41	298.79					2164.62
00-01	164.16	107.83	169.61	174.38	154.80	228.94	237.86	165.82	229.34	270.65	248.65	292.72	2464.75
99-00	147.43	174.48	174.02	216.51	229.24	181.07	154.35	161.10	229.56	277.47	202.28	203.38	2346.81
98-99	217.34	236.90	250.76	253.25	199.98	123.59	133.20	149.67	152.12	108.06	87.65	144.38	2097.40
97-98	165.00	184.39	183.00	223.86	175.74	171.41	154.11	165.41	185.43	222.38	243.43	207.99	2341.39
96-97	124.39	128.41	96.41	167.05	73.10	79.30	99.22	68.77	101.26	172.60	189.87	207.23	1539.20

upto Nov'01

CLOSING STOCK : (Figure in '000 tonnes)

Year	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March
01-02	27.45	33.26	3.67	8.03	8.13	6.02	5.97	26.94				
00-01	37.19	68.11	14.14	12.52	9.02	9.02	3.90	18.81	30.06	39.37	21.21	70.57
99-00	582.53	511.51	384.19	206.34	58.35	12.06	9.33	27.98	87.18	19.72	22.11	37.20
98-99	360.10	243.79	122.53	58.81	16.63	22.87	29.35	60.38	163.05	334.99	449.84	686.33
97-98	397.61	339.98	263.64	141.56	70.55	49.58	41.59	38.93	78.64	114.31	222.71	

YEARLY DATA, FOR PRODUCTION, DESPATCH, OMS, COST etc. :

O.M.S. :

Year	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March
01-02	6.74	7.04	7.47	6.91	6.44	7.04	8.56	9.34				
02-01	4.99	4.99	3.54	4.84	3.94	6.66	5.25	5.79	7.07	7.65	7.14	
03-00	1.34	2.94	1.20	1.05	2.18	3.17	4.53	5.37	8.21	5.74	6.36	9.25
04-99	3.81	3.28	3.10	3.10	2.29	3.03	3.60	5.61	7.54	7.51	7.32	3.96
07-98	3.39	3.62	3.31	1.97	1.74	2.10	3.48	4.25	5.52	5.34	5.30	4.84

Cost per tonne : (Rs)

Year	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Annual
01-02	768.91	708.50	644.61	615.59	764.02	724.45	689.60	673.55					
00-01	791.48	847.87	956.14	897.36	857.09	779.90	665.20	786.54	690.78	760.80	873.20	839.50	815.28
99-00	1131.26	861.78	1247.77	1906.56	1075.35	1026.39	966.69	633.30	551.96	770.42	842.03	813.74	839.88
98-99	874.66	734.60	853.39	804.33	892.48	817.41	875.98	573.11	414.05	415.40	523.19	519.15	626.67
97-98	603.72	660.03	756.94	1022.83	1072.21	866.43	657.21	567.12	409.28	464.74	507.69	489.98	630.98

Sale Value per tonne : (Rs)

Year	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Annual
01-02	1332.00	1332.00	1332.00	1332.00	1332.00	1332.00	1332.00	1362.00					
00-01	1197.24	1131.94	1091.45	1118.54	1134.99	1136.04	1212.00	1213.00	1213.00	1213.00	1332.00	1332.00	1238.05
99-00	1094.63	1096.88	1089.63	1085.97	1098.70	913.68	1042.46	1079.31	1143.87	1076.24	885.84	452.53	1135.00
98-99	874.41	866.71	927.98	953.14	985.25	1016.88	991.43	1007.31	1050.72	1068.30	1042.73	1093.05	1011.66
97-98	954.34	953.29	853.01	907.05	905.47	909.86	688.94	938.74	962.72	945.25	977.50	834.16	848.09

Profit per tonne :(Rs)

Year	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Annual
01-02	557.01	616.41	682.00	692.93	559.25	600.17	633.70	688.04					
00-01	398.76	284.08	135.30	221.18	277.89	358.14	555.74	444.15	550.86	470.07	485.01	839.88	
99-00	-36.62	235.10	-158.14	-820.59	23.35	-112.71	75.78	446.02	591.91	305.82	43.81	626.67	132.29
98-99	199.81	133.91	74.26	148.81	92.77	199.47	115.44	434.21	636.68	652.90	519.53	630.98	384.99
97-98	150.62	293.26	101.07	-115.79	-166.74	43.43	36.73	371.62	553.44	480.51	489.80	144.18	217.11

Projected Production and Despatch Programme for 2001 - 2002

PRODUCTION TARGET - 2001 - 2002

A). COAL (Fig. in '000 tonnes) :

Producing Units Name	Seam District	Apr'01	May'01	Jun'01	Jul'01	Aug'01	Sep'01	Oct'01	Nov'01	Dec'01	Jan'02	Feb'02	Mar'02	Total
Sonepur Bazari Project	R - VI	125	125	50	0	0	0	0	50	100	100	100	100	750
	R - V(S/D)	50	50	75	75	75	75	125	70	70	120	95	120	1000
	R - V(D/L)	50	50	50	50	50	50	50	80	80	80	80	80	750
	Mly Total	225	225	175	125	125	125	175	200	250	300	275	300	2500
	TPD	7.500	7.258	5.833	4.032	4.032	4.167	5.645	6.667	8.065	9.677	9.821	9.677	6.849

B). OBR (Fig. In '000 m³) :

Seam District	Apr'01	May'01	Jun'01	Jul'01	Aug'01	Sep'01	Oct'01	Nov'01	Dec'01	Jan'02	Feb'02	Mar'02	Total
R - VI	475	475	200	0	0	0	0	200	350	350	250	300	2600
R - V(S/D)	200	300	400	400	450	450	500	500	350	350	475	425	4800
R - V(D/L)	250	250	250	250	250	250	250	250	250	250	250	250	3000
R - V(Reh)	50	50	50	50	50	50	50	50	50	50	50	50	600
Mly Total	975	1075	900	700	750	750	800	1000	1000	1000	1025	1025	11000
TPD	32.500	34.677	30.000	22.581	24.194	25.000	25.806	33.333	32.258	32.258	36.607	33.065	30.137

C). DESPATCH PROGRAMME - 2001-02 (Fig. In '000)

Mode	Apr'01	May'01	Jun'01	Jul'01	Aug'01	Sep'01	Oct'01	Nov'01	Dec'01	Jan'02	Feb'02	Mar'02	Total	Remarks
Road	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rail	225	225	175	125	125	125	175	200	250	300	275	300	2500	Power Houses

COST PERFORMANCE (REVENUE)

Sl.no	PARTICULARS	Target upto Nov' 01			Actual upto Nov' 01			Actual upto Nov' 2000		
	1 PRODUCTION :									
	COAL (LT) :	13.75			20.965			14.07		
	OBR (LM ³) :	69.50			78.00			56.42		
	2 MANPOWER (AS ON I.4.) :									
	PROJECT	1650			1536			1560		
	AREA	132			129			134		
	3 OVERALL OMS	4.28			7.45			5.12		
3(a)	OVERALL EMS	559.33			649.23			501.83		
	4 COST (Rs. in '000) :									
		AMOUNT	CPT	CPM ³	AMOUNT	CPT	CPM ³	AMOUNT	CPT	CPM ³
A.	SALARY & WAGES	179647	130.94	22.70	182808	87.28	19.56	137975	98.20	20.82
B.	STORES :									
	EXPLOSIVE	54256	39.52	6.86	60612	28.94	6.48	39937	28.42	6.03
	POL	132949	96.83	16.80	126385	60.34	13.52	93312	66.41	14.08
	HEMM SPARES	167469	121.97	21.17	173929	83.04	18.61	119487	85.04	18.03
	OTHER STORES	6504	4.74	0.82	6037	2.88	0.65	10135	7.21	1.53
	TOTAL STORES	361178	263.05	45.65	366963	173.20	39.26	262871	187.08	39.67
C.	POWER	70917	51.65	8.96	71575	34.17	7.66	65478	46.60	9.88
D.	OTHER COST	556136	405.04	70.29	836649	399.45	89.50	705141	501.89	106.41
	5 TOTAL COST	1167878	850.58	147.60	1457995	696.10	155.98	1171465	833.77	176.77
	6 SALE VALUE	1870074	1362.00	236.35	2852719	1362.00	305.18	1728237	1230.05	260.79
	7 GRADE SLIPPAGE	82398	60.01	10.41	72423	34.58	7.75	125942	89.64	19.00
	8 OVERLOADING	3770	2.75	0.48	8457	4.04	0.90	4486	3.19	0.68
	9 NET SALE VALUE	1783906	1299.24	225.45	2771839	1323.39	296.53	1597809	1137.22	241.11
	10 PROFIT/LOSS	616028	448.66	77.86	1313844	627.28	140.55	426344	303.44	64.34