CENTRAL COALFIELDS LIMITED
(A Mini Ratna Company)
OFFICE OF THE PROJECT OFFICER
PAREJ EAST OPEN CAST PROJECT
CCL, HAZARIBAGH AREA

ज्ञापांक संख्या :- PO/PEOCP/70/6747 दिनांक :- 03/03/2021

सेवा में,

वन प्रमंडल पदाधिकारी
रामगढ़ वन प्रमंडल, रामगढ़ ।

विषय - सी० सी० एल० की परेज पूर्वी खुली खदान परियोजना हेतु 101.00 हे० वनभूमि अपयोजन के सम्बंध में।

महाशय,

उपर्युक्त विषय के सम्बंध में सूचित करना है कि आपके द्वारा विषयगत परियोजना हेतु वन भूमि अपयोजन का प्रस्ताव समर्पित किया गया है। समर्पित प्रस्ताव के समीक्षोपरांत दिनांक 22.02.2021 निम्नलिखित त्रुटियाँ के सम्बंध में माँगी गई जानकारी इस प्रकार है:-

कर्मांक संख्या	पत्र में वर्णित त्रुटियाँ	अनुपालन
01.	It is kindly requested to submit the mining plan of the project	Mining Plan of Parej East OCP has been uploaded in section M-2 (iv) named as Revised Project Report-2001 and its approval cum sanction copy has been uploaded in section M-2 (iii). RPR-2001 has been approved by Director (Tech), Deptt. Of Coal and Miners, Govt. Of India. Copy of approval has been enlosed as annexure-A.

अनुपालन प्रतिवेदन सूचनार्थ एवं अग्रिम कार्यवाइ हेतू प्रेषित है।

सधन्यवाद !

Encl. as above.

परियोजना पदाधिकारी
परेज पूर्वी खुली खदान परियोजना
सी० सी० एल०

प्रतिलिपि :-

1. स्टाफ़ ऑफ़िसर (प्रोजेक्ट & प्लानिंग), हज़ारीबाग़ क्षेत्र।
2. नोडल अधिकारी(फ़ोरेस्ट), परेज परियोजना ।

No.43011/21/2000-CPAM
Government of India
Ministry of Coal and Mines
Department of Coal

New Delhi, the [illegible] December, 2001

To

The Chairman
Coal India Limited
10 Netaji Subhas Road
KOLKATA - 700 001.

(with 10 spare copies)

Subject:- Revised Project Report of Parej East Opencast Project of Central Coalfields Limited

Sir,

In pursuance of Article 38 of the Articles of Association of Coal India Limited, the President is pleased to sanction the RPR of Parej East Opencast Project of Central Coalfields Limited (a subsidiary of Coal India Limited) for a capacity of 1.75 million tonnes per annum at a capital investment of Rs.162.88 crores (Rupees one hundred and sixty two crores and eighty eight lakhs only), at February, 2001 price level.

The break-up of the estimated capital investment of the project is given as under:-

S.No.	Particulars	Capital Estimates (February, 2001 base) (Rs. in lakhs)
1.	Land	300.87
2.	Buildings	
	(a) Residential	854.07
	(b) Service	669.26
3.	Plant & Machinery	
	(a) HEMM	9411.72
	(b) Other than HEMM	2818.32
4.	Furniture & Fittings	20.14
5.	Vehicles	77.15
6.	Prospecting & Boring	99.99
7.	Development	1445.01
8.	Reclamation Capital	363.58
9.	Revenue expenditure capitalised	228.35
	Total	16288.46

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[illegible] 21/12/01

[illegible] 14/2/18
PROJECT OFFICER
PAREJ EAST PROJECT

2. The parameters of the Parej East Opencast Project are as under :-

Target Output	:	1.75 mtpa
Manpower (Nos.)	:	980
O.M.S. (tonnes)	:	7.20
Date of achieving target	:	March, 2002

3. The guidelines contained in the Ministry of Finance O.M No. 1(6)/PF-II/91 dated 24.8.1992 circulated vide this Ministry's letter No. 43011/11/85-CPA dated 31.8.1992 on the subject of approval of Revised Cost Estimates and O.M.No. 1(5) PF-II/96 dated 6.8.97 on the subject of additional guidelines in respect of EFC/PIB procedures and delegation of financial powers as amended from time to time are to be strictly adhered to.

4. This issues with the concurrence of I.F. Wing vide their I.D No 1163-IF dated 29/11/2001.

Yours faithfully,

(Subrata Chaudhuri)
Director (Technical)

Copy to :-

1. Shri P. Gopalakrishnan, Director, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi with reference to their O.M No. CCEA/18/2001 (...) dated 23/11/2001.
2. P.S. to Minister of Coal and Mines
3. Sr. PPS to Secretary (Coal)
4. Ministry of Programme Implementation, Sardar Patel Bhawan, New Delhi.
5. Chairman-cum-Managing Director, CMPDIL, Gondwana Place, Kanke Road, Ranchi - 834 008.
6. Chairman-cum-Managing Director, Central Coalfields Limited, Ranchi. (with 5 spare copies)
7. Regional Director, Central Mine Planning & Design Institute Limited, P.O. Ranchi - 834 008.

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4/8/18
PROJECT OFFICER
PAREJ EAST PROJECT

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REVISED PROJECT REPORT
FOR
PAREJ EAST OPENCAST
(1.75 MTY)
OF
CENTRAL COALFIELDS LIMITED

UPDATED COST ESTIMATE

FEBRUARY, 2001

REGIONAL INSTITUTE-III
CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED
(A Subsidiary of Coal India Limited)
DARBHANGA HOUSE,
RANCHI - 834001

CMPDI

PROJECT OFFICER
Parej East OCP

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UCE FOR RPR OF PAREJ EAST OCP (1.75 MTY)

SUMMARISED DATA

Figs. of RPR applic[illegible] from 1-4-0[illegible] as [illegible] by PJ HQ, K[illegible]

SL No	PARTICULARS	UNITS	As per Sanctioned Report	As per uce of RPR (FEB'2001)
1	MINEABLE RESERVES	MT.	41.45	33.34
2	VOLUME OF O.B	M.Cu.M	114.78	94.99
3	TARGET OUTPUT a) COAL	MT.	1.75	1.75
	b) O.B (Peak)	M.Cu.M	5.53	5.53
4	AVERAGE STRIPPING RATIO	Cu.M/T	2.77	2.85
5	LIFE OF THE MINE	YEARS	27	20
6	GRADE OF ROM COAL		Gr - W IV	Gr - W IV/F
7	TOTAL CAPITAL OUTLAY	Rs.Cr.	116.19	162.88
8	CAPITAL OUTLAY /TONNE	Rs.	663.94	930.74
9	CAPITAL FOR P&M	Rs.Cr.	90.19	122.30
10	CAPITAL FOR P&M /TONNE	Rs.	515.35	698.86
11	ESTIMATED COST OF PRODN.	Rs./T		
	a) at 100 %		192.74	380.33
	b) at 85 %		217.38	428.33
12	AVERAGE SELLING PRICE	Rs./T	287.20	632.76
13	PROFIT (+)/ LOSS (-)	Rs./T		
	a) at 100 %		94.46	252.43
	b) at 85 %		69.82	204.43
14	INTERNAL RATE OF RETURN	%		
	a) at 100 %		27.35	35.97
	b) at 85 %		18.95	26.42
15	NO. OF PERSONNEL	NO.	980	980
16	OMS (old)	T	6.76	6.76
17	E.M.S	Rs.	153.18	461.28
18	DATE OF ACHIEVING TARGET PRODN.		5th Yr Production	2nd year

PROJECT OFFICER
Parej East OCP

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UCE FOR RPR OF PAREJ EAST OCP (1.75 MTY)

SUMMARISED DATA

Sl. No.	PARTICULARS	UNITS	As per Sanctioned Report	As per uce of RPR (FEB'2001)
1	MINEABLE RESERVES	MT.	41.45	33.34
2	VOLUME OF O.B	M.Cu.M	114.78	94.99
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18	DATE OF ACHIEVING TARGET PRODN.		5th Yr Production	2nd year

(i)

PROJECT OF[illegible]
Parej East OCP

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PAREJ EAST OCP

1.0 INTRODUCTION

Parej East Opencast Project occupy the southern sector of Parej East Block is located in West Bokaro Coalfield of Bihar State. It is part of Hazaribagh area of M/s Central Coalfields Ltd. (CCL), Ranchi. Parej East OCP is approachable by a 12 Km. metalled mines board road connecting Charhi on National Highway No.33. The Project is located at distance of 90 Kms. from Ranchi and 30 Kms. from Hazaribagh town.

2.0 PROJECT REPORT FOR PAREJ EAST OCP (1.75 MTY)

The Project report for Parej East OCP was sanctioned by Government in March '93 at an estimated initial capital investment of Rs.116.19 Crs. for a rated capacity of 1.75 MTY of ROM coal per anum. The itemwise break-up of the sanctioned investment is given below :-

		(Amount in Rs. Crores)
Sl.No.	Particulars	Sanctioned Capital
1	Land	1.77
2	Building	
	(a) Residential	5.93
	(b) Service	4.94
3	Plant & Machinery	90.19
4	Furniture & Fittings	0.10
5	Railway Sidings	-
6	Vehicles	0.54
7	Prospecting & Boring	1.01
8	Development	9.29
9	Revenue Expenditure Capitalised	0.21
10	Land Reclamation	2.21
	Total	116.19

Shovel-Dumper mining system is envisaged in the sanctioned Project Report. For coal winning, 2 Nos. of 3.2/3.8 cu.m. Hydraulic shovels along with 7 Nos. 35 Te. Rear Dumpers (Coal body) were envisaged, whereas for OBR 7 No.4.6/5 cu.m. Electrical Rope Shovels along with 61 No. 35 Te. Dumpers were envisaged.

PROJECT OFFICER
Parej East OCP

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3.0 FINANCING UNDER CSRP

The Parej East OCP has been identified to be financed under CSRP for the procurement of major HEMM, and the EMP measures are proposed to be financed under ESMP. The allocation of loan is Rs.7.487 Crores under ESMP and Rs.75.18 Crores under CSRP. Most of the HEMM have already arrived at the project. 31 No. of RD-50 Te. Dumpers hve been procured under CSRP in place of sanctioned 35 Te. Dumpers. This is in addition to the existing 9 No. (as on 31.3.2000) of 35 Te. Dumpers and nos. of 35 T Dumper to be procured. Some more modifications in the equipment configuration has been sought to be done under CSRP scheme, e.g. additional 1 No. wheel dozer of 410 up, and 1 No.280 up grader in place of 2 No.145 up grader has been proposed.

4.0 PRESENT PERFORMANCE OF PAREJ EASTOCP

Sl. No.	Particulars	94-95	95-96	96-97	97-98	98-99	99-2000
1	Coal production (MT)	0.35	0.63	0.80	0.70	0.54	0.89
2	OB Removal (Cu.m.)	1.13	1.24	1.17	1.13	1.36	2.21
3	Cost of production (Rs. Te.)	289.31	342.13	387.46	398.00	458.96	479.00
4	Selling Price (Rs. Te.)	366.38	420.88	584.14	660.81	430.35	442.75
5	Profit (Rs. Te.)	77.07	78.75	196.68	262.81	(-)28.61	(-)36.25

5.0 PHYSICAL PROGRESS OF THE PROJECT UPTO APRIL 2000

5.1 STATUS OF LAND ACQUISITION

Sl.No	Particulars	Land in Ha.			
		Tenancy	GMK	Forest	Total
1	Total land required	82	271.96	45.04	399.00
2	Physical possession of land	36 9.5 Ha.	31.41 ~~17.41 Ha~~	43.52 7.10 50.62	110.93
3	Land to be acquired	46	240.55	1.52	288.07

Physical possession of land = tenancy 82 .5 Hec → 77 Hect

31.41
17.00
GMK 48.41 Hec

PROJECT OFFICER
Parej East OCP

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Details of GMK land (For 1st 10 years)

Parej village - (59.5 Ha.)

- Authentication completed.

- Out of total 59.5 Ha. 8.17 Ha. has been authenticated in favour of tenants and compensation paid and is under physical possession.

- For balance 51.33 Ha. The demand of compensation received from State Authority. Out of this only 20.20 Ha. encroachment free Govt. land for which the demand has been sent to Department of Coal for consideration and sanction. Rest 31.13 Ha. of Govt. land is encroached.

Duru village (107 Ha.)

- Authentication of Tenancy land completed. Compensation payment is being processed.

- Authentication of GMK land completed. Report from District authority awaited.

As per order of Hon'ble Supreme Court, Forest Conservation Act would also be applicable to all GMK land recorded as Jungle Jhari irrespective of ownership. In view of the above directive of Supreme Court, State Govt., Forest Dept. are finding it difficult to process company's forest land release applications for want of NOC to be issued by the concerned Dy. Commissioner in respect of GMK land recorded as Jungle Jhari.

5.2 REHABILITATION

(a) Phasing of resettlement of Project affected Families (PAFS)

PAFs Shifted till 3/2000	2000-01		01-02	Total
	Plan	Ach.	Plan	
55	75	28	160	290

- Total PAFs to be shifted - 290.

- 83 PAFs have already been rehabilitated till January 2001.

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PROJECT OFFICER
Parej East OCP

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- 75 PAFs have been planned to be shifted during 2000-01.

- Balance 47 families shall be shifted by March 2001.

- A total of 76 Ha. of land (51.33 Ha. GMK land & 24.67 Ha. Tenancy land) shall be available after shifting of 75 PAFs during 2000-01 which will be sufficient for minimum of next 5 years of mining. Balance 160 families have been planned to be shifted during 2001-02.

5.3 PLANT & MACHINERY

HEMM

Most of the HEMM have already been procured and commissioned. The Project has been posed for World Bank funding. Now the loan for HEMM procurement under CSRP has been sanctioned.

Electricals

Sub-station along with overhead line (OHT) for power supply has been completed.

Workshop

Construction of workshop buildings for excavation & E&M has been completed. Plant and machineries for workshop has been ordered. Minor portion of the workshop equipment has been supplied and commissioned.

Coal Handling Plant

Out of the total production of 1.75 MTY, 1.05 MTY is of washery grade coal and the remaining of 0.70 MTY is of non-washery grade coal. Hence, 1.05 MTY of washery grade coal is linked to Kedla washery. The remaining of 0.70 MTY of non-washery grade coal be despatched to Gidi washery, which is now a non-coking coal washery for washing.

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Parej East OCP

The CHP has a capacity to handle 1.60 MTY of coal at Kedla OCP and as Kedla OCP Expansion could not come up the plant is under utilised. Hence it is proposed to send 1.05 MTY of washery grade coal from parej East OCP to Kedla CHP. Parej East OCP coal can not be sent to kedla CHP by conveyor transport as the distance is enormous approx. 8 Kms. It is therefore suggested that 1.05 MTY coal be transported using contractor's trucks. Therefore, no need to construct a coal handling plant at Parej East OCP.

6.0 **REVISED PROJECT REPORT(Sept.'99)**

6.1 **Reasons for RPR**

(a) **Change in Coal linkage**

The entire coal (1.75 MTY) was linked to pithead: Parej Washery through a full fledged CHP in the sanctioned P.R. Since Parej Washery is not coming up and Kedla Washery has been commissioned, but facing shortage of raw coal feed, major quantity of coal output from Parej East OC is now linked to Kedla
washery through existing Kedla CHP and Kedla CCT which is in advance stage of construction. Out of total output of 1.75 MTY of Parej East OC, 1.05 MT of coal will be sent to Kedla Washery and balance 0.70 MTY of high ash medium coking coal (W-IV/F) is linked to Gidi Washery (non-coking).

(b) **Dropping of CHP**

In view of change in linkage, there is no need to make full fledge CHP at mine site. Only a Feeder Breaker (400-500 TPH) along with elevating conveyor and truck loading hoppers (2x100 T) arrangement has been proposed in RPR to handle 0.70 MTY coal.

(c) **Change in HEMM configuration**

In the sanctioned PR there was 5 cum Elect. Rope Shovel + RD-35 T Dumpers to handle OB work load and 3.8 cum. Hyd. Shovel + 35 T Dumpers for coal production. In the RPR following Shovel Dumper combination has been

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Parej East OCP

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considered in view of recommendation of World Bank:- 5 Cum. Elect. Rope Shovel + RD 50T Dumpers to handle OB & 3.8/4 Cum. Hyd. Shovel + RD 35T Dumpers for coal production.

(d) **Revised quarry boundary**

There has been a change in the quarry boundary sanctioned earlier. On the south-eastern side, the quarry surface has been fixed leaving a 100m barrier against Baraghatu village. It may be mentioned that this village was considered for rehabilitation in the sanctioned P.R. Thus the total families to be rehabilitated will reduce from 595 sanctioned earlier to 290.

Hence, there has been a change in the scope of the sanctioned report. In the review meeting of CCL, Projects costing more than 100 crores, taken by Secretary (Coal) on 4.9.99 it was decided that a RPR for parej East OCP should be prepared excluding the CHP.

Thus, to accommodate the changed scope of the sanctioned report, this RPR for parej East OCP has been prepared for a rated capacity of 1.75 MTY of coal and 5.35 Mm^3 of OBR (Peak) per annum, considering the existing status of the mine including the geometry of the mine and the strength of HEMM etc. Accordingly, the mineable reserve of coal has been reduced to 33.34 million tonne in the RPR from 41.45 million tonne as considered in the approved PR.

7.0 APPROVAL OF RPR BY CIL BOARD

ESC of CIL Board for project appraisal, evaluation and approval in its 53rd meeting held at New Delhi and CIL HQ., Calcutta on 5.5.2000 and 23.5.2000, respectively approved the RPR of Parej East OCP for production of 1.75 MT at capital investment of Rs.169.10 Crs., and recommended for sending it to IMG/PIB for consideration.

8.0 APPROVAL BY IMG

Updated economics of the RPR of Parej East OCP was discussed by IMG in its meeting held on 17.10.2000 at MOC, New Delhi.

PROJECT OFFICER
Parej East OCP

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After detailed deleberations Chairman, IMG directed that the following exercise should be done and put up for the consideration of the members of IMG.

(i) The selling price of the realizable coal at the mine site should be computed as the price of the washed coal minus the cost of washing and cost of transportation of coal from the mine site to the washery. The cost of middlings and rejects produced in the washery should also be taken into consideration. This exercise may be done for calculating the viability of the OC project. [Ref. Observation 6(i)].

(ii) Sensitivity analysis with decrease in selling price at different stages should also be undertaken and furnished. [Ref. Observation 6(ii)].

(iii) Different mines linked to Kedla Washery should be indicated. [Ref. Observation 6(iii)].

(iv) Manpower provision in the RPR should be restricted to 980 as per the project report sanctioned in March, 1993. [Ref. Observation 6(iv)].

IMG finally recommended the project to PIB for consideration and subsequent approval subject to compliance with the observations noted above.

8.1 COMPLIANCE WITH THE IMG OBSERVATIONS

(i) Taking a capacity utilization of kedla Washery of 69.23%, 80%, 85% and 90, corresponding raw coal feed from Parej East OCP is considered. The cost of raw coal from Parej East OCP has been worked out and given in Annexure-I.

The exercise is based on the actual supply of coking coal with ash percentage of about 18.90% of the washed coal in the year 1999-2000. In this year, raw coal quantity supply to Kedla Washery was only 0.86 M.tes. The price of washed coal at 18.90% ash was Rs.1847.30 per te. As per the agreement with SAIL the price of clean coal with ash 18.50% from Kedla Washery will be Rs.1899.00 per te. during 2000-2001.

PROJECT OFFICER
Parej East OCP

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The profits at realizable selling price of Rs.645.57 per te. for Washery grade IV coal have been found to be Rs.265.24 and Rs.217.24 at 100% and 85% levels of capacity utilisation respectively.
The corresponding IRR based average weighted realizable selling price of Rs.567.74/te for W-IV & Gr."F" ROM coal have been found to be 28.11% and 19.45% at 100% and 85% levels of capacity utilization,which has been shown in Appendix D.5 & D.6 respectively.

Sensitivity analysis with decrease in selling price in steps of 5% to a maximum of 30% over the base price and the IRR at different steps are calculated and given in Updated Economics, Feb. 2001.

As per the Annual Plan of CCL, different mines linked to Kedla washery during IXth Plan is given below :-

Laiyo U/G, Jharkhand OCP, Kedla U/G, Kedla OCP, Tapin South U/G, Tapin North OCP and Parej East OCP.

As per the directive of IMG, manpower of Parej East OCP is restricted to 980 as sanctioned in March, 1993 and necessary correction has been made in the UCE, Feb.2001.

COST UPDATION OF RPR (Feb. 2001)

In view of the RPR being recommended to IMG/PIB after approval by CIL Board, the RPR is now being updated as more than six months has elapsed since its preparation. This is in conformity with the Guidelines of the Ministry of Coal.

Total Capital Investment

The project envisages to produce 1.75 MTY of coal per annum at an average stripping ratio of 2.85 cum/te. The total capital investment is estimated to be Rs.162.88 Crores. The specific investment thus works out to Rs.930.74. The phased head-wise capital investment is given in Appendix-A. Break-up of the total capital investment is given hereunder:

Gross Block i.e existing Assets as on 31.3.2000	:	Rs.113.77
Balance Additional Provision	:	Rs.49.11 Crs.
Total Estimated Capital Investment	:	Rs.162.88 Crs.

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Parej East OCP