

F O R M

For seeking prior approval under section 2 of the proposals by the State Government and other authorities :

(See Rule 4)

1. Project Details :

- (i) Short narrative of the proposal and project scheme for which the forest land is required. : The forest land is required for Hindusthan Lalpath Opencast Project for extraction of coal.
- (ii) Map showing the required forest area boundary of adjoining forest and item-wise break-up of the required forest area for different purposes to be authenticated by an Officer not below the rank of Deputy Conservator of Forest. : A map of the required forest Area involved showing forest boundaries of adjoining forest is enclosed. Item-wise break-up of the required forest area from Reserved Forest Comptt. No.485 of Chandrapur Forest Div. is given against item No.4(i) of this form. Kindly refer page No-48.
- (iii) Total cost of the Project : Sanctioned by the Govt. of India on a capital out lay of Rs.117.60 Lakhs vide Deptt. of Coal's order No.43011/33/77 dt.1.11.10.1973. R.C.E. approved for Rs.1989 Lakhs in 1987.
- (iv) Justification for locating the Project in the forest area giving alternatives examined and reasons for their rejection. : The location of the site for mining operations is solely dependants upon nature's deposit of Minerals & geological structure of the coal seam and was approved and sanctioned question of exploring alternative site for such purpose does not arise.
- (v) Financial and social benefits : a) By way of Royalty, Cess, and Taxes to State and Central Govt. Rs. 1682.30 Lakhs (Calculated for 50 years)
b) By way of Energy generation Rs. 82,782.00 Lakhs.
c) Growth of other ancillary industries in the Area.

(vi) Total Population benefited

- a) Directly within the Project 2490.
b) Population indirectly benefited is by way of generation of Electricity and growth of ancilliary industries.

(vii) Employment generated

- a) Employment generated in the Project-600 persons.
b) Additional employment potential will be available by way of generation of power and growth of ancilliary industries.

2. Location of the Project/Scheme :

- i) State/Union Territory : Maharashtra State
ii) District : Chandrapur
iii) Forest Division, Forest Block compartment etc. : Chandrapur Forest Division (Comp. No. 485)

3. Item-wise break-up of the total land required for the project/scheme alongwith its existing land use.

	<u>All Right</u>	<u>Mining Right</u>
	24.87 (for excavation)	42.30 (for underground mining)
	5.05 (for Safety zone)	
1) Forest Land	29.92	42.30
2) Private land for OB Dump and infractuted	100.83	-
3) Revenue land for OB Dump and ifractures	138.61	-
	<u>269.36</u>	<u>42.30</u>

4. Details of Forest Land involved :

(i) Legal status of the Forest (namely reserve, protected/ unclassified etc.)

ALL RIGHTS

Sr. No.	Location/ Name of Forest	Camp. No.	Tahsil & District	Area in Hect.	Legal status	Remarks
1)	CHANDRAPUR FOREST DIVISION	485	Chandrapur	29.92	Reserve (Part) forest	24.87 for mining excavation. 5.05 for Safety zone.

MINING RIGHT

1)	CHANDRAPUR FOREST DIVISION	485	Chandrapur	42.30	Reserve (Part) Forest	42.30 for Underground mining
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Total :: 72.22

- ii) Details of flora and fauna existing in the Area : The forest land covered in this proposal is devoid of forest growth. There is no fauna in the area applied for.
- iii) Density of vegetation : The density of forest is zero.
- iv) Species-wise and diameter class-wise abstract of trees : No Trees are involved in the required forest land.
- v) Vulnerability of the Forest Area to erosion. Whether it forms a part of a seriously area or not. : Not seriously degraded area.
- vi) Whether it form a part of National park, wildlife sanctuary, nature reserve, biosphere reserve etc. and if so, details of the area involved (Specific comments of the Chief Wildlife Warden to be annexured. : This area is not coming under any national park, wildlife sanctuary, nature reserve, biosphere reserve etc. Certificate of the Dy.Chief Wildlife Warden is enclosed at Page No. 97.
- vii) Item-wise break-up of the forest land required for the project scheme for different purposes. :

Particular of work	Nature of forest land	All Right	Mining Right
1) For mining Excavation	RF Compt. No.485	24.87	-
2) Safety Zone/ Mining right	-do-	5.05	42.30
		29.92 Hects.	42.30 Hects.
- viii) Rare/endangered species of Flora and fauna found in the Area. : No rare and endangered species of flora and fauna found in this Area.
- ix) Whether it is a habitat for migrating fauna for forms a breeding ground for them : It is not habitat for migratory fauna & does not form breeding ground for them.
- x) Any other significance of the area relevant to the proposal : The area applied for is degraded reserve Forest Area where there are no any Historical structure noticed in the Area.
- 5) Details of displacement of people due to the Project. :
 - i) Total number of families involved in displacement : Displacement of people is not involved in the proposal.
 - ii) Number of scheduled caste scheduled tribes families involved in displacement. : Nil
 - iii) Detailed rehabilitation Plan : Nil

6. Details of compensatory afforestation scheme :

- i) Details of non-forest Area degraded forest area identified for compensatory afforestation, its distance from adjoining forests, number of patches, size of each patch.

Zudpi Jungle Land Details of
Village - Karur,
Tahsil - Samudrapur,
Distt. - Wardha

Name of Village	PC No.	Survey No.	Area in Hects.	Remarks
Karur	40	21	26.91	Part
		47	23.23	Part

Total : 50.14 Hects.

: In this case requirement of Forest land is for 72.22 Hects. including 5.05 Hects. of Forest land required for safety zone and 42.30 Hects. for Underground Mining. Govt. of India vide their No. 11-17/91-FC(Pt.), dt. 10.10.91 (copy enclosed) Page No. 8, 9 have clarified that the forest land required for safety zone should not form part of the area proposed for diversion non-forest use, as well as the Nodal Officer, M.S., Nagpur vide his No. Desk-17/N.Cell/1/2305 dt. 31.1.92 (copy enclosed) page No. 10 have instructed not to insist for non-forest land for compensatory afforestation in lieu of forest land required for underground mining. Looking to these instructions the project Authorities have made available equivalent non-forest land (Double the quantity of ZUDPI JUNGLE LAND) measuring 72.22 He. (5.05 He. + 42.30 He.) = 47.35 Hects. i.e. $24.87 \times 2 = 49.74$ against that 50.14 Hects. offered from village Karur P.H. No. 40 of Tahsil Samudrapur, District Wardha, belonging to Government Revenue Deptt. to the Forest Department for compensatory afforestation. This area is in compact block and adjacent to existing forest area of "KHEK" Reserve Forest of Tahsil-Samudrapur District-Wardha. It is suitable for Plantation and management point of view survey Nos given.

- ii) Map showing non-forest degraded forest area identified for compensatory afforestation and adjoining forest boundaries.

: Map enclosed at Page No. 57-58 of the proposal.

- iii) Detailed compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure etc.

: Compensatory afforestation scheme enclosed at Page Nos. 75-78 Misc. species will be planned by the Forest Deptt. for a period of 10 years.

(iv) Total financial outlay, : Rs. 9.77 Lakhs for 49.74 Hect.
for compensatory afforestation scheme. @ Rs. 19,634/- per Hect.

(v) Certificates from competent : Certificate enclosed at
authority regarding suitability of area identified
for compensatory afforestation for afforestation and
from management point of view
(To be signed by an Officer
not below the rank of Deputy
Conservator of Forests)
Page No. 72-74

(vi) Certificate from the Chief : Not applicable
Secretary regarding non-availability of the non-forest land for compensatory afforestation
(if applicable)

7) Details regarding Transmission :
Lines (only for Transmission
Line proposals) :

(i) Total length of the Transmission Line.	:	
(ii) Length passing through Forest Area.	:	
(iii) Right of Way	:	
(iv) Number of Towers to be erected.	:	Not applicable
(v) Number of Towers to be erected of forest Area	:	
(vi) Height of transmission towers.	:	

8) Details of Irrigation/Hydel
Projects (only) for Irrigation/
Hydel Projects) :

i) Total catchment Area	:	
ii) Total command Area	:	
iii) Full Reservoir Level	:	
iv) High Flood Level	:	Not applicable
v) Minimum Drawal Level	:	

- | | | | |
|--------|--|---|--|
| (vi) | Break-up area falling in catchment area of the project (Forest land, cultivated land, pasture land, human cultivation and others) | : | |
| (vii) | Area of submergence at High flood level. | : | |
| (viii) | Area of submergence at full Reservoir level. | : | |
| (ix) | Area of submergence 2 meter below Full Reservoir Level | : | Not applicable. |
| (x) | Area of submergence at 4 meter below Full Reservoir Level (For Minimum and major project only) | : | |
| (xi) | Area of submergence at Minimum Drawal Level | : | |
| (xii) | Detailed catchment Area treatment plan. | : | |
| (xiii) | Total financial outlays and details regarding availability of funds for Catchment Area treatment plan | : | |
| 9) | Details regarding Road/Railway Lines, (Only for Roads/Railway Lines proposals) | : | |
| (i) | Length and width of the strip required and forest area required. | : | |
| (ii) | Total length of the road | : | |
| (iii) | Length of the road already constructed. | : | Not applicable |
| (iv) | Length of the road passing through the forest | : | |
| 10) | Details regarding Mining proposals : (only for mining proposals) | : | |
| (i) | Total mining lease area and Forest area required. | : | Total Mining lease Area = 311.66 Hects.
Out of this Forest Area required = 72.22 Hects. |
| (ii) | Period of Mining lease proposed. | : | 30 years. |

-// 7 //-

(iii) Estimated reserve of each mineral are in the forest area and in the non-forest Area.

Reserve of Coal 4.230
(i) In forest Area : 6.02 MT
(ii) In Non-forest Area : 5.98 MT
14.22 MT
11.216 MT

(iv) Annual estimated production of mineral/ore. : 0.59 MT/Annum.

(v) Nature of mining operation (Opencast/Underground)	All Right	Mining Right
a) Forest Land	29.92	42.30
b) Private Land	100.83	-
c) Revenue Land	138.61	-
	269.36	42.30

Opencast = 269.36 Hects.

Underground = 42.30 Hects.

Total = 311.66 Hects.

(vi) Phased reclamation Plan : Enclosed at Page Nos.

89 to 94.

(vii) Gradient of the Area where mining would be undertaken. : 1 in 4

(viii) Copy of the Lease Deed (to be attached only for renewal purposes) : Not applicable, as it is a fresh requirement for forest land

(ix) Number of Labourers to be employed. : 500 persons

(x) Area of Forest land required for -

(a) Mining : Extraction of coal : 24.87 Hects. by Opencast mining method.

Safety Zone/ : 5.05 Hect.
Underground Mining : 42.30 Hect.

(b) Storing mineral : not Req.

(c) Dumping of Overburden : not Req.

(d) Storing tools and machinery : not Req.

(e) Construction of building : not Req.

power station, workshop etc.

(f) Township/housing colony : not Req.

(g) Construction of road/ ropeway railway lines : not Req.

(h) Others : not Req.

for
percent
2487
42.30

(xi) Reasons why any of the referred to in (a) to (h) above under the project for which forest land has been asked for cannot be undertaken located outside forest area.

: a) For Mining - 57.17 Hects

The location coal mine project is solely dependant upon the nature's Phenomena i.e. nature's deposite of the mineral and the geological conditions existing.

(xii) The extent of damage likely to because and the number of trees affected on account of mining and related activities.

: Total forest land covered in mining excavation is 24.87 Hect. Nos. of trees affected - Nil. The density of forest is zero.

(xiii) Distance of the mining area from water course, national and State Highways, national Parks, sanctuaries and biosphere reserves

(a) Water Course

: Distance from Mining Area

: Erai River

Full at part of the Western boundary of the Project Area.

(b) National Highway

: 90 KMs. Approx.

(c) State Highway

: 3 KMs. Approx.

(d) National Park

: Tadoba National Park
57 KMs. Approx.

(e) Sanctuary

: Andhari Sanctuary
37 KMs. Approx.

(f) Biosphere Reserves

: Nil

-// 9 //-

- (xiv) Procedure for stocking of the for reserves : As the top soil cover in the Area is thin and of poor quality, it is feared that the shortage of top soil beyond 1-2 years will spoil its nutrients. Therefore there is no proposals to store top soil reclamation of dumps. The dump therefore would be used for growing suitable species of plants/grass after soil testing and analysis.
- (xv) Extent of subitense expected in Underground mining operations and its impact on water, forest and other vegetation. : As, part of this is an Opencast mining where it is not applicable. In Underground mining the working as partial extraction and full hydraulic sand stowing. No damage to surface due to Underground mining.
11. Cost benefit analysis : Enclosed at page Nos. 74-84
12. Whether clearance from environmental angle is required (Yes/No) : Yes, environmental Clearance is required.
- If yes, whether, requisite details for the same have been furnished (Yes/No.) : In this connection kindly refer article No. 2.3 (iii) of the rules & Guideline of 25.10.92 under which it is clarified that the Govt. of India has decided under the single window clearance scheme. Proposals which require approval under the Act as well as clearance from the environmental angle shall be process simultaneously and decision taken for both together. And as such separate proposal for environmental clearance is not required.
- Clearance from Maharashtra Pollution Control Board, application have already been recommended and processed to the Member Secretary, M.P.C. Board, Bombay by the Regional Officer, MPC Board, Nagpur. This is as per the letter No.1779 date 20.7.92 received from Regional Officer, MPC Board, Nagpur, copy of letter enclosed on Page No. 99
13. Whether any work in violation of the Act has been carried out(Yes/No) if yes. : No, the violation of the Forest (Conservation) Act, 1980 have not been violated in this case.
- i) Details of the same including date of commencement : Not applicable
- ii) Officers responsible for violation of the Act. : Not applicable

-// 10 //-

- iii) Action taken being taken : Not applicable
against esering officers
- iv) Whether work in violation : Not applicable
of the Act is till in
progress.
14. Any other information :
15. Details of Certificates documents enclosed. :
- (1) Collector's certificate reg.
no suitable alternative non-forest
land is available for the project
at Page No. 45-46
- (2) Unqualified commitment from
the Project authority for defra-
ying the cost of compensatory
afforestation, at Page No. 56
- (3) Certificate from Project autho-
rity - "Non-violation" duly counter-
signed by Dy.C.F. at Page No. 56
- (4) Collector's 'No Objection
Certificate" for transfer of the
area to forest Deptt. for compen-
satory afforestation.
at Page Nos. 64-71
- (5) Certificate of suitability of
the non-forest land for raising
compensatory afforestation by
Dy.Cons. of Forest, at Page No. 72-74
- (6) Certificate to the effect that
the area offered for compensatory
afforestation is compact, contigi-
ous, and suitable for management
by Dy.Cons. of Forest.
at Page No. 72-74
- (7) Certificate issued by Dy.Chief
Wild Life Warden, Chandrapur/
Deputy Conservator of Forest,
Chandrapur Division, Chandrapur
that not to affect any movement
site of cultural historical religi-
ous archeological including wild
life sancturies and National park
at Page No. 97

(8) Demarcation Certificate issued by Area Planning Officer, Chandrapur Area/ Sr.Estate/Revenue Officer, Chandrapur Area.

Certified that the Forest land Comp. No.485 required for Hindusthan Lalpath Opencast Project has been demarcated on Spot. at Page No. 98

(9) Certificate issued by General Manager, Chandrapur Area that 24.87 Hects. of Forest land covered in this proposal is for actual Opencast Mining operations forming major portion of quarry No.2 and is the bare minium requirement.

The location of site of mining operations as solely depend upon the nature's deposit of minerals and the geological conditions existing, as such exploration for alternate site for such purpose does not arise, at Page No. 98

(10) Consent from Maharashtra Pollution Control Board vide letter No.MPC/NRO/1779 dt. 20.7.92 issued by Shri A.M. Deshpande, Regional Officer, MPC Board, Nagpur, that with reference to your application dtd. 7.10.91. "This is to inform you that your application is already processed by this office and recommended to the Member Secretary, M.P.C. Board, Bombay vide this office letter No.MPC/NRO/2552 dt.18.11.91, for further necessary action". at Page No. 99

(11) Violation Certificate issued by Deputy Conservator of Forests, Chandrapur Division, Chandrapur, Certified that the provision of the Forest Conservation Act, 1980 has not been violated in the proposal. at Page No. 101.

(12) Certificate issued by Dy.Conservator of Forest, Chandrapur Division, Chandrapur that, This is to certify that I have checked the Maps of Forest Area and Compensatory non forest area and found to be correct as per the check list. at Page No. 101

16. Detailed opinion of the Chief :
Conservator of Forest/Head of
the Forest Department concerned
covering the following aspects
namely :

- (i) Out-turn of timber, : Nil
fuelwood and other forest
produce from the forest land
involved.
- (ii) Whether the district is : Yes, the district is self
self-sufficient in timber sufficient in timber and
and fuelwood and fuelwood.
- (iii) The effect of the :
proposal on :
(a) Fuelwood supply to : There will be no effect of fuelwood
rural population supply to rural population.
- (b) Economy and livelihood : This project will not effect on
for the tribals and back- the economy and livelihood of the
ward communities. tribals and backward communities.
- (iv) Specific recommendation :
of the Chief Conservator
of Forests Head of the
Forest Department for
response of otherwise of
the proposal reasons
thereof.

Certified that all other
alternative for the purpose
have been explored and the
demand for required area is
the minimum demand for
forest land.

Signature of the authorised officers
of the State Government Authority.

N.B.I. while furnish details of
flora and fauna the species should
be described by their scientific names.

Foot Note

The Principal rules were notified vide number G.S.R. 719 dated the 20th July, 1981 and subsequently amended vide.

- (1) G.S.R. 14 dated the 28th December, 1987
- (2) G.S.R. 640 (E) dated the 26th June, 1989

(2)

ANNEXURE OF ITEM NO. 1
of FORM 'A'

BRIEF NOTE GIVING ESSENTIAL DETAILS OF THE PROJECT FOR WHICH
FOREST LAND IS REQUIRED (AS PER CHECK LIST ITEM NO.1(1) CIRCULATED
VIDE LETTER DATED 11.01.1990

=====

HINDUSTHAN LALPETH OPENCAST PROJECT .

- A) Cost of out lay : Sanctioned by the Govt. of India
on a capital out lay of Rs.1188.60
Lakhs vide Deptt. of Coal's
letter No. 43011/33/79 dated
11.10.1979. R.C.E. approved for
Rs. 1989 Lakhs in 1987.
- B) Justification for locating the Project in the Forest Area giving alternative that were examined and reasons for their rejection. : The location of the site for
mining operations is solely
depends upon nature's deposit
of Minerals & geological struct-
ure of the coal seam and was
approved and sanctioned. Question
of exploring alternative site
for such purpose does not arise.
- C) Financial & Social Benefits : a) By way of Royalty, cess, and
Taxes to State and Central Govt.
Rs. 1682.30 Lakhs (Calculated
for 50 years)
b) By way of Energy generation
Rs. 82782.00 Lakhs.
c) Growth of other ancilliary
industries in the Area.
- D) Total Population Benefited : i) Directly within the Project
2490.
ii) Population indirectly benefi-
ted is by way of generation of
Electricity and growth of ancill-
iary industry.
- E) Employment generation : a) Employment generated in the
Project 600 persons.
b) Additional employment potential
will be available by way of gene-
ration of power and growth of
ancilliary industries.

f) A Comprehensive land use Plan of the area required should be attached if land is required for more than one purpose. The building plan should invariably required for construction purpose.

- 1) Plan showing compensatory land alongwith 7/12 record is enclosed.
- 2) The proposed use of forest land. Chart given as below.

PROPOSED USE OF FOREST LAND :-

=====			
Proposal	<u>Proposed use in Hect.</u>		Total
	(A) All Right	(B) Mining Right	Area (A+B) In Hects.
=====			
Diversa- tion of land	For Mining Excavation	For under ground Mining/ Safety Zone	
		42.30 He.	
72.22 He.	24.87 He.	5.05 He.	72.22 He.
=====			

GENERAL MANAGER
CHANDRAPUR AREA

39

HINDUSTHAN LALPETH OPENCAST PROJECT
(PROPOSAL FOR DIVERSION OF FOREST LAND UNDER FOREST
CONSERVATION ACT.1980)

ADDITIONAL INFORMATION AS PER COLUMN 4.11 OF THE GUIDELINES ISSUED
BY MINISTRY OF ENVIRONMENT AND FOREST VIDE NO.2-3/86-FC DTD.23.6.89

1) Total Mining Lease Area and Forest Area required.

The Total requirement of land is as under.

Under CBA '4&D Act. required	Private Land (A)	Govt. Revenue Land (B)	Total (A+B)	Forest Land (C)	Total (A+B+C)
411 Right	100.83	138.61	239.44	29.92	311.56
Mining Rights	-	-	-	42.30	
					311.56

From the above table, It can be seen that the total lease hold
Area of Hindusthan Lalpeth Opencast Project measure out to Approximate
312 Hects. out of which 72.22 Hect. is Reserved Forest 29.92 Hects.
for All right + 42.30 Hect. for Mining right = 72.22 Hect. Proposal
under Forest (Conservation) Act. 1980 have been made as under.

Proposal Under	LAND USE			Total in Hects.
	Total Area in Hects.	Mining (Excav.)	Underground Mining/ (Safety zone)	
On Proposal	72.22 Hects.	24.87 Hects.	42.30 He. 5.05 He.	72.22

2) Period of Mining lease proposed

The life of the Project is 21 years.

3) Estimated reserves of each minerals/ Ore in the Forest
Area and in the Non-forest Area adjoining

<u>Area of the Actual Excavation :-</u>	
Forest	: 24.87
Non-Forest	: 55.13
Total	: 80.00 Hect.

Reserve of Coal :-

In Forest Land	: 4.230 Million Tonnes Approx.
In Non-Forest Area	: 6.986 Million Tonnes Approx.
Total	: 11.216 Million Tonnes Approx.

4) Annual Estimate Production of mineral/Ore.

The targetted output as per Project Report is 0.59 M. Tonne per annum.

5) Nature of Mining Operation :-

The extraction will be done by Opencast method as well as by underground method.

6) Plans for rehabilitation of the area after Mining :-

The two quarries i.e. quarry No.1 and 2, out of that quarry No.1 would be completely back filled with O.B. Reclaimed Quarry No.1 are proposed to be used for growing suitable species of plants depending upon the expert advice of State Forest Deptt.

Out of 80 Hects. of Land which would be destroyed by quarrying more than 60% would be reclaimed. Quarry No.2 will be filled only partially Leaving the remaining part to form a water reservoir to be used for irrigation, Fishery or for recreation water supply to population around the area.

The land reclaimed out of dumps and back filled areas would be available for cultivation. The surface Area of void at the end of the Mine Life which would be used as water storage, Providing irrigation facilities.

7) Gradient of the Area where mining would be under taken :-

- a) General slopes of the land is from South to North and East to West towards Erai River which flows through a generally plan and flat terrain;
- b) Excavation range from 176 M to 202 M above mean sea level.
- c) Gradient to Coal seam - 1 in 4.

8) For renewals :-

Was forest Department consulted at the time of proposing present renewal of mining lease/or present grant of surface rights? Copies of the concerned lease deed.

This is not a case of renewal of mining lease, as such this clause is not applicable. The land and rights have been acquired under Coal Bearing Areas (A&B) Act. 1957.

9) Average number of persons to be employed every day.

No. of persons as per sanctioned : 600 Nos.
Project Report.

10) Area of Forest land required for

- i) Mining (Open Excavation) : 24.87
- ii) Underground Mining/Safety Zone : 42.30
5.05

Total : 72.22

- b) Stowing materials : Nil
- c) Dumping of overburden : Nil
- d) Stowing tools & Machinery : Nil
- e) Construction of Building Power station, Workshop etc. : Nil
- f) Township/Housing colony : Nil
- g) Construction of road/Ropeway : Nil
- h) Full land use plan for forest Area required. : Enclosed

11) Reasons why forest land asked for any of the activities under the Project Cited can not be located outside forest area.

The location of coal mine project is solely dependant upon the natures Phenomena i.e. nature's deposits of the mineral and the geological conditions existing.

In Hindusthan Lalpath Opencast 29.92 Hect. of forest land in all rights covered in the proposal out of that 24.87 Hects. is for actual Opencast Mining operation forming major portion of the Project + 5.05 Hects. in all right as Safety Zone (Total 24.87 + 5.05 = 29.92 Hects.)

This forest land is devoid of forest growth. The density of forest is 'Zero'.

42.30 Hect. of land will be notified by the underground mining only with partial extraction and full hydraulic sand stowing. No damage to surface whatsoever is appended due to under ground mining.

12) The extent of damage that would be caused in terms of number of trees affected on account of mining and related activities.

The forest land covered in mining operation (i.e.24.87 Hect.) covered + 5.05 Hect. as Safety Zone is devoid of forest growth. The density forest is Zero.

42.30 Hect. of Forest land will be worked partially by underground mining, no damage to surface hence no tree felling will be done.

13. Distance of the mining Area from perennial water courses, National and State Highways, National Parks, Sanctuaries and biosphere reserves.

<u>Distance from Mining Area</u>		
Perennial Water Course	Eravi River	Full at part of the Western boundary of the Project Area.
National Highway		90 KMs. Approx.
State Highway		3 KMs. Approx.
National Park	Tadoba National Park	57 KMs. Approx.
Sanctuary	Andheri Sanctuary	37 KMs. Approx.
Biosphere Reserves	Nil	

14) Procedure for stacking top soil for reserves.

As the topsoil cover in the Area is thin and of poor quality, it is feared that the shortage of top soil beyond 1-2 years will spoil its nutrients. Therefore there is no proposals to store top soil reclamation of dumps. The dump therefore would be used for growing suitable species of plants/grass after soil testing and analysis.

15) Phased reclamation Programme concurrently with the mining operation.

a) Total Forest Land used :-

Proposal	Total Area in Hect.	Land used in Hects.		
		Mining Operation (Excav.)	Underground Mining/ Safety Zone	Total
(1)	72.22 Hects.	24.87	42.30 5.05	72.22 Hect.

b) Phasing of Forest Land use :-

i) Under Mining/Safety Zone 42.30 + 5.05 Hect.
of Forest Land.

Under ground mining will work in some portion and full hydraulic sand stowing. No damage to surface. The land within the zone will not be disturbed by underground mining and will exist as such.

ii) Open Excavation within Mining limit of quarry No.2 :-
(24.87 Hects. of Forest land)

24.87 Hects. of forest land is required by 96.97 when working in quarry No.2 extend in to the forest land as per the calendar programme of excavation drawn in the approved E.M.P.Report. In 0.1 - 0.2. Partly simultaneous back filling of decadal void in H.L.C. quarry No.2 started. In 0.6 - 0.7 quarry No.2 exhausted and partly back filled. Revegetation of back filled area of H.L.P. D/c. quarry No.2 completed by 0.8 - 0.9.

c) Reclamation Programme of Forest Land 72.22 Hect

i) Underground Mining/Safety Zone 42.30 + 5.05 Hect.

Land within the above will not be distributed by Mining or allied operations and will exist as such.

This forest land is devoid of forest growth. The density of forest is 'Zero'.

42.30 Hect. of land will be notified by the underground mining only with partial extraction and full hydraulic sand stowing. No damage to surface whatsoever is appended due to underground mining.

12) The extent of damage that would be caused in terms of number of trees affected on account of mining and related activities.

The forest land covered in mining operation (i.e. 24.87 Hect.) covered + 5.25 Hect. as Safety Zone is devoid of forest growth. The density forest is Zero.

42.30 Hect. of Forest land will be worked partially by underground mining, no damage to surface hence no tree felling will be done.

13. Distance of the mining Area from perennial water courses, National and State Highways, National Parks, Sanctuaries and biosphere reserves.

<u>Distance from Mining Area</u>		
Perennial Water Course	Erail River	Full at part of the Western boundary of the Project Area.
National Highway		90 KMs. Approx.
State Highway		3 KMs. Approx.
National Park	Tadoba National Park	57 KMs. Approx.
Sanctuary	Andheri Sanctuary	37 KMs. Approx.
Biosphere Reserves	Nil	

14) Procedure for stacking top soil for reserves.

As the topsoil cover in the Area is thin and of poor quality, it is feared that the shortage of top soil beyond 1-2 years will spoil its nutrients. Therefore there is no proposals to store top soil reclamation of dumps. The dump therefore would be used for growing suitable species of plants/grass after soil testing and analysis.

15) Phased reclamation Programme concurrently with the mining operation.

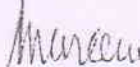
-// 6 //-

ii) Open Excavation within the Mining limit of quarry No.2
(24.87 Hects.)

The quarry will start in 1996-97. A total of 18.75 MM3 of overburden shall be excavated. Out of that 1.58 MM3 will be used in quarry No.1 from the Vth year till Xth year of its operation. The Overburden removed, will be accommodated in quarry No.1. The rest will be dumped in quarry No.2. The remaining void of quarry No.2 measuring 20.75 Hects. shall be left as water body. Water reservoir will be used for irrigation, Fishry/Water supply to population around the Area.

16) Extent of subsidence expected in underground mining operation and its impact of water, forest and other vegetation.

As, part of this is an Opencast mining where it is not applicable. In underground mining the working as partial extraction and full hydraulic sand stowing. No damage to surface due to underground mining.



GENERAL MANAGER
WESTERN COALFIELDS LIMITED
CHANDRAPUR AREA

(45)

COLLECTOR OFFICE CHANDRAPUR.

No. Desk-4/RB-II/7-3/1991/ 5

Dated: 24.12.1990.

Read:- Chief General Manager, WCL, Chandrapur Area
Letter No. WCL:CHA:CCM:APD:PLG:67396 Dated
24.12.1990.

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C E R T I F I C A T E.

Certified that no suitable alternative
non Forest land is available for the purpose of
Durgapur Opencast Project and Hindustan Lalpeth Open-
Cast Project of Western Coalfields Limited of Chandr-
apur District.

Sd/-

COLLECTOR, CHANDRAPUR.

Copy forwarded with compliments to General Manager,
W.C.L. Chandrapur Area for information and necessary
action.

Copy forwarded with compliments to the Conservator of
Forest North Circle, Chandrapur.

Dy. Conservator of Forest, Chandrapur South, Division
Chandrapur for information.

16/12/1990
Sd/-
COLLECTOR, CHANDRAPUR.

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48
COLLECTOR OFFICE CHANDRAPUR.

No. Desk-4/RB-II/7-3/1991/ 687

Dated: 27/12/91

Read:- Chief General Manager, UCL, Chandrapur Area
Letter No. UCL:CHA:CGM:APD:PLG:67396 Dated
24.12.1990.

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C E R T I F I C A T E .

Certified that no suitable non Project
land and Zudpi Jungle land under the management of
Revenue Department is available for compensatory
afforestation in lieu of the Forest Land required for
Durgapur Opencast Project and Hindustan Lilpath Open-
cast Project of Western Coalfields Limited in Chandr-
apur District.

Sd/-

COLLECTOR, CHANDRAPUR.

Copy forwarded with compliments to the General Manager,
UCL, Chandrapur Area for information and necessary
action.

Copy forwarded with compliments to Conservator of
Forest North Circle Chandrapur.

Dy. Conservator of Forest Chandrapur Division Chandrapur
for necessary action.

for
COLLECTOR, CHANDRAPUR.

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