

MINE PROFILE / DATA DOSSIER OF AB INCLINE MINE

1.0 GENERAL INFORMATION

1.1 LOCATION OF THE MINE

AB Incline Mine is located in Silewara-Kamptee Coalfield under the administrative control of Nagpur Area of the WCL, in Nagpur District of Maharashtra State. The AB Incline Mine is situated immediately on the northern side of Pipla U/G, Walni U/G and Silewara U/G Mine property.

The present leasehold area of AB Inline Mine is 193.75 hectares and the area proposed for mining by MDO will be within the lease hold area itself. The AB Incline Mine falls in Silewara-Kamptee Coalfield. The proposed AB Incline Mine boundary is delineated in the plans appended with this profile as follows:

- North : AB Incline Mine Northern Boundary Arbitrary Line north of Central Magazine and Walni Colony
- South : Common Mine Boundary between AB Incline Mine with Walni U/G and Silewara U/G Mine corresponding to boreholes approximately KMT 133, KMT 25, KMT 85, KMT 32, KMT 51, KMT 81 & KMT 26
- East : AB Incline Mine Eastern Boundary Arbitrary Line corresponding to boreholes approximately KMT 50 & KMT 77
- West : AB Incline Mine Western Boundary Arbitrary Line corresponding to boreholes approximately KMT 134 & Walni Colony Buildings

The AB Inclines Mine is bounded by

Latitude : 21° 17' to 21° 20' N

Longitude : 79° 02' to 79° 08' E

1.2 MINE ACCESSIBILITY

Nearest Airport: Nagpur at a distance of about 30 km

Nearest Railway Station	: Pipla Halt & Patansaongi at a distance of around 2 &
	7 km respectively
Approach by Road	: 3 km from Dahegaon and 8 km from Patansaongi on NH-47
Nearest Seaport	: Vishakhapatnam and Mumbai at a distance of about 780 km and 825 km respectively.

1.3 HISTORY OF THE MINE / PROJECT

1.3.1 History of mining, mine operators and date of abandonment: -

Silewara Project consists of three units namely Silewara U/G Mine, Walni U/G Mine and AB Incline Mine. Out of these, Silewara Mine was opened by erstwhile NCDC, whereas Walni U/G Mine came into existence as per provision of RPR for Silewara Expansion (Phase-I). AB Incline Mine was opened as per the provision of RPR for Silewara Expansion (Phase-II).

A Revised Project Report for Silewara Expansion was prepared in December 1978 wherein a production capacity of 0.48 Mty was to be achieved as per Phase-I RPR. The Phase-II of the same report envisaged a final production capacity of 0.85 Mty (0.55 Mty from Silewara and balance 0.30 Mty from Walni). The Govt. of India approved Phase-I of the project for a target production of 0.48 Mty.

As per the recommendation of Inter-Ministerial Group (IMG), the second phase of the development of the project was to be taken only after adequate hydrogeological investigations. The hydrogeological investigation of the block was undertaken by CGWB and a report was published in October 1981.

In view of favourable hydrogeological conditions, the project needed upgradation for higher production. Hence, a second RPR namely RPR for Silewara Expansion (Phase-II) was prepared in November 1982. As per this report, one more unit namely AB Incline Mine was added to the project. The production capacity was envisaged as 1.00 Mty (Silewara U/G Mine = 0.52 Mty, Walni U/G Mine = 0.33 Mty & AB Incline Mine = 0.15 Mty).

The above report was approved by Government of India in March 1985. Accordingly, AB Incline Mine was opened in February 1986 and production from this mine was started in 1991-92.

As the total expenditure upto 31-03-1988 was likely to exceed the sanctioned capital, a Revised Cost Estimates (RCE) for RPR for Silewara Expansion (Phase-II) was prepared in March 1989. The RCE was approved by WCL Board in June 1989 and CIL Board in January 1990.

Subsequent to the clearance by Inter Ministerial Group (IMG), the department of coal expressed doubt regarding the capability of the project to achieve the target capacity of 1.0 Mty on the basis of the stagnant production of the project in the last few years. It was finally decided to prepare a fresh RPR on the basis of realistic assessment of achievable capacity. This decision was communicated by Department of Coal to WCL. WCL Board gave its approval for preparation of another RPR with derating Silewara Project to 0.80 Mty (Silewara U/G Mine = 0.38 Mty, Walni U/G Mine = 0.24 Mty & AB Incline Mine = 0.18 Mty). This derated RPR of Silewara Project was prepared and got approved in which the target capacity of AB Incline Mine was fixed as 0.18 Mty.

AB Incline Mine was opened with 2 inclines and an airshaft. AB Incline Mine is having four workable seams namely Seam-V, Seam-IV (Top), Seam-IV (Bottom) and Seam-II having a thickness range of about 3.50m - 4.75m, 2.00m - 3.50m, 2.00m - 3.00m and 3.00m - 6.00m respectively.

Bord & Pillar method of mining in conjunction with hydraulic sand stowing has been adopted in AB Incline Mine till its discontinuance. Production from this mine was on declining trend with 178820 tonnes in 2012-13 to 87615 tonnes in 2017-18. Ultimately the mine was discontinued in 2018.

1.3.2 Reasons of discontinuity:

Due to heavy losses and very less production, steep gradient, water bearing Kamptee series, poor RMR, geological disturbances such as faults, cleats, slips etc in AB Incline Mine, the workings of AB Incline Mine were discontinued and ultimately closed in February 2018 and March 2020 respectively.

1.4 COMMUNICATION FACILITIES AVAILABLE:

The block is well connected by both road and rail. The mine is approachable from Dahegaon (3 kms) and Patansaongi (8 kms) and is in turn connected to Nagpur via Dahegaon on Chhindwara Road. Pipla Halt & Patansaongi Railway Stations are at a distance of around 3 & 8 kms respectively from the mine under South-eastern Railway.

1.5 CLIMATE

The area is characterized by Tropical Climate. The day temperature during summer months (lasting from April to May) rises to as high as 47° C to 48° C but winters (November to February) are generally pleasant with minimum temperatures going down to 10° C. The annual rainfall in the area is about 1200 mm. The average relative humidity varies from 45% to 60%.

1.6 TOPOGRAPHY AND DRAINAGE:

The area is generally very flat with elevation ranging between 283m and 300m above MSL. The drainage of the area is controlled by two perennial rivers i.e., Kolar River in the south and Kanhan River in the north. A canal is flowing over the AB Incline Mine property on the northern side.

Most of the property of AB Incline Mine area lies well above the Highest Flood Level but a small portion on the eastern side is affected by the HFL of Kanhan River. The HFL of Kanhan River is 290.14m as recorded in the year 1942.

1.7 STATUS OF MINING LEASE

1.7.1 Lease-hold area :-

The present leasehold of AB Incline Mine is 193.75 hectares approximately.

1.7.2 Land use pattern:-

The total leasehold area of AB Inclines Mine is 193.75 hectares approximately. The land acquisition status under different heads in the Leasehold Area is given as follows:

SI. No.	Type of Land	Area (in ha)
1	Tenancy Land	133.32
2	Forest Land	0.00
3	Government Land	11.44
4	Acquired Land of WCL (Tenancy Land)	48.99
	TOTAL	193.75

2.0 GEOLOGY

2.1 GEOLOGY OF THE COALFIELD

The stratigraphic sequence established on the basis of borehole data from several agencies like IBM, NCDC and DGM Mining (Maharashtra) is given in the following table:

Age	Formations	Lithology	Range of Thickness (m)
Sub recent to recent	Detrital Mantle	To black cotton soil, clayey soil, sandy soil, medium to coarse grained sand, pebbles and boulders of metamorphics, Deccan Traps and sandstone	7.80 - 53.20
	•	UNCONFORMITY	
Upper Permian	Kamthis	Very fine grained, medium to coarse grained sandstone, frequently, ferruginous and silicified, pink, red, purple and yellow in colour. The clays are generally red & greyish green	50 - 100
		OVERLAP	
Middle Permian	Moturs	Green grey, chocolate brown, variegated clays, greenish chloritic and micaceous sandstones, carbonaceous shales and rarely thin bands of coal	250 - 300
Lower Permian	Barakars	Grey/White fine to coarse grained and gritty sandstone, intercalations of shale and grey shale, carbonaceous shale and coal seams	250 - 270
Upper Carboniferous	Talchirs	Greenish and Calcareous shales and sandstones	Not known
		UNCONFORMITY	
Archean	Metamorphics	Pegmatite, Schists, Quartzites etc	Not encountered in any B.H.

2.2.1 The individual formations are described as below:

a) DETRITAL MANTLE

The detrital mantle consists of black cotton soil, layers of medium and coarse grained sand with pebbles and boulders of quartzite, metamorphics and deccan trap indicating that they are of transported origin. The thickness of detrital mantle varies from 7.80m to 53.20m.

b) KAMTHIS

Kamthis consist of dark brown coarse grained ferruginous sandstones, felspatic grits and red/yellow limonite shales. The Kamthi rocks are devoid of coal seams. Earlier it was considered that Silewara-I Mine area did not have Kamthis but assessment of Pipla-Walni area by the geologists had revealed presence of such rocks near the incrops of the coal seams below the detrital mantle. It was noticed that wherever the thickness of detrital mantle is less in a borehole, the Kamthis have been invariably found to exist underneath.

c) MOTURS

The Moturs are underlain conformably by the Barakars and overlain unconformably by the Kamthis. These comprise of dominantly highly plastic mottled clays and fine/coarse grained chloritic sandstone. Thin bands of coal and shale were noticed in the bottom section of the moturs. This plastic clays amount to about 64% of the motor formation, the sandstone constitute 30% while the rest are rock types such as carbonaceous shales and quarry shale. The clay horizons 2m to 6m in thickness are fairly consistent in top portion of moturs while impersistent clay bands/pockets also occur in the bottom section. The lowest fairly thick and marked clay horizon occurs about 50 to 70m above the top most coal seam (Seam-V) occurring in the barakars.

d) **BARAKARS**

The total thickness of Barakars was estimated at 250 to 270m. The Middle Barakars about 100m thick, contain the coal seams of economic importance. The lithological succession in the Barakars is as follows:

Lithology	General Range in Thickness
Sandstone	60m - 70m
Coal Seam - V	6.0m - 8.0m
Parting (generally sandstone)	25m - 40m
Coal Seam-IV (Top)	1.5m – 3.5m
Parting (generally sandstone and inferior coal bands)	6.0m - 10.0m
Coal Seam-IV (Bottom)	2.0m - 3.0m
Parting (generally sandstone)	30m - 40m
Coal Seam-III	0.5m - 2.5m
Parting (generally sandstone)	16m - 24m
Coal Seam-II	3.0m - 6.0m
Parting (generally alternating shale and sandstone	1.5m – 4.0m
Coal Seam-I (Top)	0.3m - 1.1m
Parting (generally shale and alternating shale and sandstone	0.6m - 3m
Coal Seam-I (Bottom)	0.5m - 2.0m
Sandstone, alternating shale and sandstone	About 70m

2.2 EXPLORATION STATUS

Indian Bureau of Mines started prospecting work in the area in 1962. NCDC carried out further exploration from 1964 onwards. The total meterage drilled till September 1978 was about 33457m for proving. The proposed mine boundary falls in Silewara - Kamptee Coalfield. The details of boreholes drilled by different agencies are not available.

2.3 DIP AND STRIKE

The geological structure as deciphered from the borehole data indicate the rocks including the coal bearing Barakars to have a southerly dip of 11° to 16°.

2.4 INCROP / OUTCROP OF COAL SEAM (S)

As per the available plans and data, no coal seam incrop / subcrop in the proposed leasehold boundary.

2.5 COAL SEAMS

The sequence of Coal Seams with their thicknesses is as follows:

Seam / Seam section	Seam Thickness (m)	UHV (k.Cal./kg)	Remarks
V	3.5 - 4.75	2690-3380	Workable Section
IV (Top)	2.0 - 3.5	2690-4898	Workable Seam section
IV (Bottom)	2.0 - 3.0	4208-5036	Workable Seam section
111	1.2 - 2.5	4070-5312	Unworkable Seam
П	3.0 - 6.0	4208-5588	Workable Seam
I (Bottom)	1.2 - 2.0	4760-5864	Unworkable Seam section

2.5.1 Description of Coal Seams in the Mining Area

The AB Incline Mine was opened with two inclines and an airshaft. The mining area in AB Incline Mine is having four workable seams/seam sections namely Seam-V, Seam-IV (Top), Seam-IV (Bottom) and Seam-II. Seam section-III, Seam section-I (Top) and Seam section-I (Bottom) are unworkable owing to less thickness and reserves.

Seam-V is having a thickness of 3.50m to 4.75m. 70% of area in Seam-V has been developed. Two panels (E-1 & E-2) have been depillared in this seam. Leaving aside the developed pillars, a few panels have been drawn in Seam-V where development and depillaring reserves have been estimated. Also the depillaring reserves have been estimated in the pillars which are standing in this seam.

Seam-IV (Top) is having a thickness of 2.00m to 3.50m. Nearly whole of the area has been developed in this seam. One panel (E-1) was depillared in Seam-IV (Top). No fresh panels could be drawn in the virgin area of Seam-IV (Top) as there is no place left out in this seam. Therefore, development and depillaring reserves have not been estimated in the virgin area. The depillaring reserves have been estimated in the pillars which are standing in this seam.

Seam-IV (Bottom) is having a thickness of 2.00m to 3.00m. Nearly whole of the area has been developed in this seam. One panel (E-1) was depillared in Seam-IV (Bottom). No fresh panels could be drawn in the virgin area of Seam-IV (Bottom) as there is no place left out in this seam. Therefore, development and depillaring reserves have not been estimated in the virgin area. The depillaring reserves have been estimated in the pillars which are standing in this seam.

Seam-II is having a thickness of 3.00m to 6.00m. Nearly whole of the area has been developed in this seam. No panel was depillared in Seam-II and the whole seam is standing on pillars. No fresh panels could be drawn in the virgin area of Seam-II as there is no place left out in this seam. Therefore, development and depillaring reserves have not been estimated in the virgin area. The depillaring reserves have been estimated in the pillars in all panels which are standing in this seam.

Note:- In AB Incline Mine area, the development has been done only upto Fault F₁-F₁. This fault is a down thrown fault with a maximum throw of about 135m. Beyond this fault, there is some virgin area which is in the lease hold of AB Incline Mine. This area is not proved and hence geological structure of this area is unknown. Only after proving this area with exploratory boreholes, the geological structure and existence of coal seams can be known. In this exercise, no reserves have been estimated in this area. If the same set of coal seams are proved to exist, then the reserves may be estimated by the MDO.

2.5.2 Faults

The AB Incline Mine area is dissected by about 5 faults i.e., Faults F_1 - F_1 , F_2 - F_2 , F_{2A} - F_{2A} , F_{2B} - F_{2B} and F_6 - F_6 . Many faults which are minor in nature with a throw upto 5m which may not have been dissected during exploration might have been encountered during development period in the mine.

2.5.3 Intrusives

The Kamptee-Silewara Coalfield in general and Silewara Expansion area in particulars is free from any igneous intrusives as evidenced from the mining activities as well as the drilling operations conducted.

2.5.4 Other geological disturbances

Occurrence of minor faults and other geological disturbances cannot be ruled out.

2.5.5 Immediate roof and floor of coal seam(s)

The status of Immediate Roof and Floor of Seam-V, Seam-IV (Top), Seam-IV (Bottom) and Seam-II in AB Incline mine area is as below:

SEAM-V:

- a) Roof : Sandstone
- b) Floor : Generally Sandstone

SEAM-IV (Top):

- a) Roof : Generally Sandstone
- b) Floor : Generally Sandstone and inferior coal bands

SEAM-IV (Bottom):

- a) Roof : Generally Sandstone and inferior coal bands
- b) Floor : Generally Sandstone

SEAM-II:

- a) Roof : Generally Sandstone
- b) Floor : Generally alternating Shale and Sandstone

2.6 PHYSICO-MECHANICAL PROPERTIES

The Physico-Mechanical properties are not available for this mine

2.7 PROXIMATE & ULTIMATE ANALYSIS

2.7.1 The Proximate Analysis results on 60% R.H. and at 40° C in is given in the following table:

Seam / Seam Section	Thickness (m)	Useful Ash + Moisture range (%)	U.H.V. (k. Cal./kg)	Grade
V	3.50 - 4.75	40.0 - 45.0	2690 - 3380	'F'
IV (Top)	2.00 - 3.50	29.0 - 45.0	2690 - 4898	'F' / 'E'
IV (Bottom)	2.00 - 3.00	28.0 - 34.0	4208 - 5036	'D' / 'C'
II	3.00 - 6.00	24.0 - 28.0	4208 - 5588	'D' / 'C'

2.8 OTHER TEST AND ANALYSIS

No other tests and analysis are available for AB Incline Mine.

3.0 COAL RESERVES

The minimum balance Extractable Reserves in Four Workable Seams i.e., Seam-V [Standing on Pillars + Virgin Area], Seam-IV (Top) [Standing on Pillars], Seam-IV (Bottom) [Standing on Pillars] and Seam-II [Standing on Pillars] works out to approximately 6.55 Mt.

4.0 GEO-MINING CHARACTERISTICS

4.1.1 Gassiness of coal seam(s)

Degree of gassiness of all the workable seams is Degree - I.

4.1.2 Water regime

The hydrogeological investigation in Silewara Coalfield has since been carried out by the Central Ground Water Board (Central Region) and the report was published in October 1981. It has been assessed by the above authority that the ground water flow in the underground workings in the event of depillaring operations would be of the order of 4.5 litres per second (approximately 60 gpm) in an area of 0.125 km².

4.1.3 Incubation period of coal seam(s)

The mine workings in AB Incline Mine are discontinued in February 2018 and therefore the incubation period of workable seams is not available.

4.1.4 Cavability of coal seams

Data of cavability characteristics of coal seams is not available.

4.1.5 Important surface features

- a. Incline No. A & B
- b. Airshaft
- c. Walni WCL Colony
- d. Service Buildings
- e. 11 kV MSEB Line
- f. Irrigation Canal
- g. State Highway Road / Public Road
- h. New Rohana Village
- i. Water Supply Pipe Line etc

5.0 MAJOR CONSTRAINTS

a) Surface Constraints

- 1. Incline No. A & B and Airshaft exists on the surface of the mine.
- State Highway Road, Public Road, Colliery Roads, Service Buildings, Walni WCL Colony, 11 kV MSEB Power Line, Irrigation Canal, Water Supply Pipe Line and New Rohana Village etc are passing through the Mine area.

b) Underground Constraints

- 1. Gradient of coal seams is very steep (1 in 3.5 to 1 in 5).
- 2. All the workable seams are geologically disturbed with many number of faults, cleats, slips and a big dyke etc crisscrossing the area.
- 3. The pillars in all the workable seams are standing since long time and may be water logged.
- 4. In AB Incline Mine area, maximum area has been developed and the pillars which are standing since long time are water logged pillars due to which the standing pillars may be in very bad shape and condition.
- 5. Workings of Walni, Pipla and Silewara U/G Mines are adjoining to the workings of AB Incline Mine and therefore there would be a possibility of danger of underground inundation. A sufficient barrier has been kept in the workable coal seams to avoid the danger.
- 6. Seam-V is overlain by Kamptee series which is known to be water bearing strata.
- 7. Sufficient barrier has to be kept against surface constraints while depillaring in all the workable seams.

6.0 PRESENT STATUS

6.1 MINE ENTRIES

AB Incline Mine is having three mine entries i.e., two inclines and one airshaft which are shown in the following table:

SI. No.	Entry	Length/ Depth (m)	Cross- section (m x m)	Gradient	Purpose
1.	Incline No. A	490	4.5 x 2.2	1 in 4.0	Main intake and belt conveyor roadway
2.	Incline No. B	490	4.5 x 2.2	1 in 4.0	Main intake and haulage roadway.
3.	Airshaft	57	4.0 m dia.	Vertical	Main return airway.

6.2 MINING METHOD

In the four workable coal seams of AB Incline Mine, Semi-Mechanised Bord & Pillar method was adopted with development and depillaring in conjunction with hydraulic sand stowing.

6.3 STATUS OF MINING

Date of opening, discontinuance and closing of AB Incline Mine is 02.02.1986, 28.02.2018 and 31.03.2020 respectively. Reason for discontinuity is said to be heavy losses. The status (development & depillaring) of workable seams are mentioned in the below given table:

SI. No.	Name of Seam	Status
1	Seam-V	70% of area has been developed in this seam. Two panels (E-1 & E-2) have been depillared.
2	Seam-IV (Top)	Nearly whole of the area has been developed in this seam. One panel (E-1) has been depillared.
3	Seam-IV (Bottom)	Nearly whole of the area has been developed in this seam. One panel (E-1) was depillared.
4	Seam-II	Nearly whole of the area has been developed in this seam. No panel was depillared and the whole seam is standing on pillars.

6.4 INFRASTRUCTURE AVAILABLE

6.4.1 Land

The leasehold area of AB Incline Mine is 193.75 hectares. The land acquisition status in the Leasehold Area is 48.99 ha acquired by WCL, 133.32 ha of Tenancy land, and 11.44 ha of Government Land.

6.4.2 Roads and culverts

The AB Incline Mine is located nearly 5 km from Nagpur - Chhindwara State Highway. The mine and mine entries are well connected by a pucca road of WCL connecting from Incline No. A & B to Nagpur - Chhindwara State Highway. The mine is having well connected internal roads.

6.4.3 Plants and machinery

No Plant & Machinery exists in the abandoned/discontinued AB Incline Mine.

No Belts and Haulages along with trackline and signaling system are available on the surface or underground in AB Incline Mine.

Pumps and pipe lines are not available in this mine.

Main Mechanical Ventilator is not available in this mine.

6.4.4 Power supply and distribution

The source of power supply to AB Incline Mine is 11 kV feeder of MSEB Rohana Sub-station. Presently there is no power supply and supply is disconnected to the mine. No surface and underground sub-station exists in AB Incline Mine.

6.4.5 Coal Handling Plant

Presently there is no CHP facility near AB Incline Mine.

6.4.6 Water supply and sewerage

No pumping system is available in this mine presently and therefore water supply and sewerage are totally dismantled.

6.4.7 Service and Residential Buildings

Presently, all the service buildings are dismantled except Workshop (32m x 12m) and Manager Office (27m x 19m) in AB Incline Mine. Both these service buildings i.e., Workshop and Manager Office are non-sparable, non-useable and non-serviceable. Residential buildings exists under the head of Silewara Mine but are occupied by the employees of neighboring operating mines.

6.4.8 Railway siding

Railway Siding doesn't exist in AB Incline Mine.

6.4.9 Present Pumping System

Pumping system is not there at present in AB Incline Mine.

6.4.10 Present Magazine Details

The portable magazine is presently dismantled as the mine is discontinued / abandoned. The main magazine / central magazine is in use under the leasehold area of AB Incline Mine with explosive capacity of 44000 kgs and detonator capacity of 44000 nos, cast booster capacity of 500 kgs and DF of 50000m.

This main magazine / central magazine is in use for the present operating mines and cannot be spared for MDO.

6.4.11 Present Manpower Details

Presently, there is no manpower in AB Incline Mine.

6.4.12 Production from AB Incline Mine

Presently, there is no production from AB Incline Mine as this mine is abandoned / discontinued in February 2018 and finally closed in March 2020. The production of 5 years before closing of AB Incline Mine is as follow:

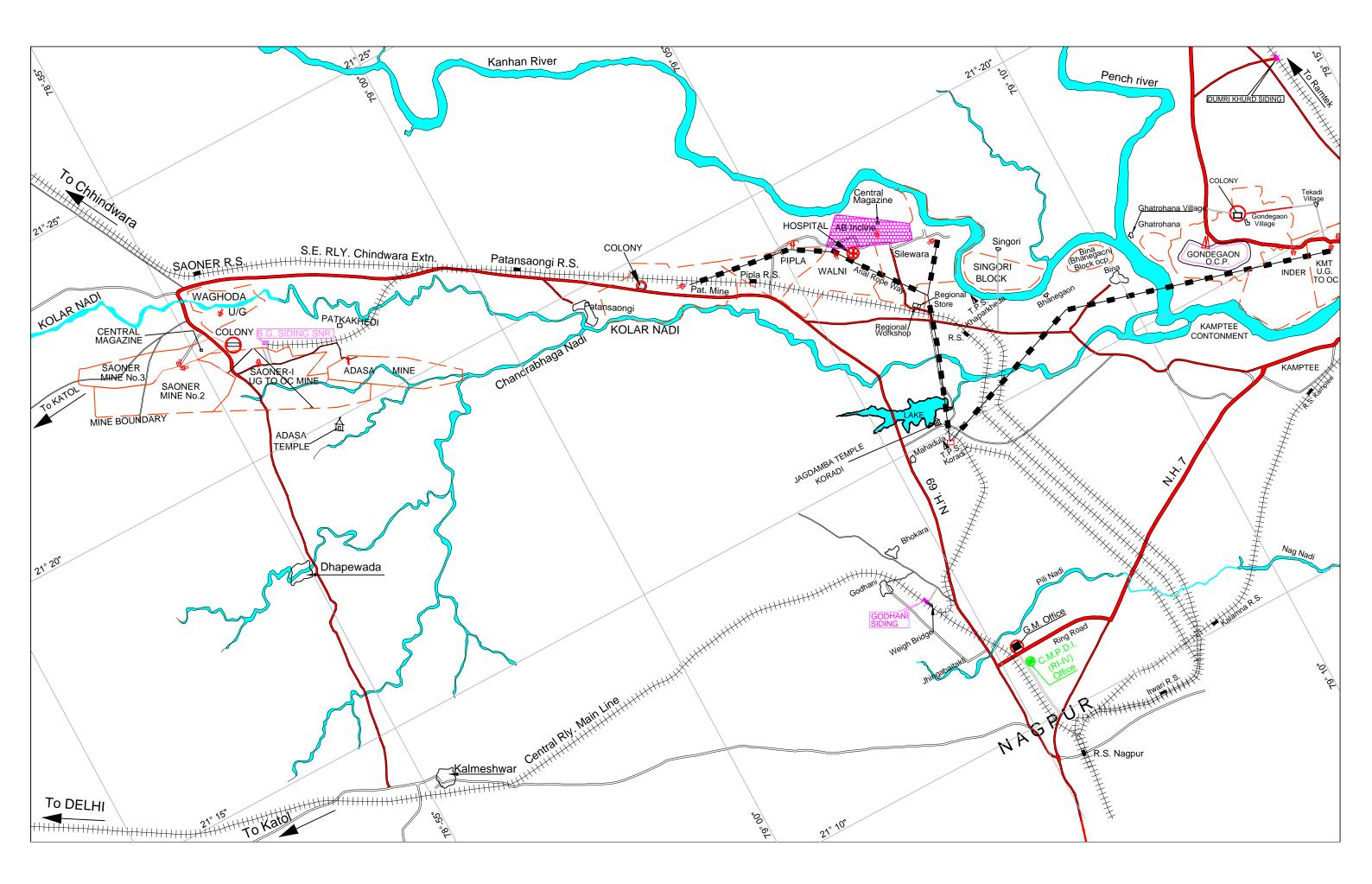
Year 2013-14 = 179315 tonnes Year 2014-15 = 175100 tonnes Year 2015-16 = 154065 tonnes Year 2016-17 = 120310 tonnes Year 2017-18 = 87615 tonnes

6.4.13 Average Grade of Coal

The average grade of coal seams of abandoned / discontinued AB Incline Mine before closing is 'Steam G-8, Slack G-9'.

7.0 PLANS

SI. No.	Description	Scale/R.F.
1	Location Plan	N.T.S.
2	Surface Plan	1 : 2000
3	Working Plan of Seam-V	1 : 2000
4	Working Plan of Seam-IV (Top)	1 : 2000
5	Working Plan of Seam-IV (Bottom)	1 : 2000
6	Working Plan of Seam-II	1 : 2000
7	Khasra Plan	16" = 1 Mile





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