

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

No. WCL/HOD(S&C)/

Date: 27. 12. 2006

To,
The CGM / GM
All Areas, WCL (Except Wani Area)

Subject :- Precautions to be taken in operation of Haulages in Underground mines.

Dear sir,

There occurred four fatal accidents in the last two years, where the deceased were hit by haulage tubs. These accidents were repetitive in nature and in all the four accidents, it was revealed that sheer ignorance and violation of the code of practice was responsible.

In the last of these four accidents that occurred recently in one of the mines of WCL, the deceased and his co-worker were decoupling a set of empty tubs from an endless haulage rope without short circuiting the haulage signalling wire. At that time, the workers deployed at the tippler side / haulage engine side gave signal for starting the endless haulage to send a set of empty tubs. The rope started moving along with the empty tubs that were being decoupled. The deceased failed to move to a safe place and was caught in the moving tubs injuring him fatally.

In view of the above, it is important that the operation of Haulages in the underground mines of WCL are made safe so as to prevent repeated recurrence of the same. Therefore, the following important steps with respect to the operation of haulages should be immediately taken,

1) Code of Safe Practice :

- a) There should be a comprehensive code of practice framed for Haulage Khalasi / Clipman and Haulage operator specific for each haulage.
- b) This code of practice should be prominently displayed near the Haulage engine and coupling / de-coupling points.
- c) It should be ensured by periodic checks / inspections that the procedure of work is done strictly as per the code of practice.
- d) Strict punitive action should be taken against persons found violating this code of practice.

2) Only authorised persons should be allowed to work as Haulage Khalasi / Clipman and Haulage operator.

3) In the Haulage roadway, AUDIO VISUAL ALARM, tracks, drum, pulley, sheaves, rollers, manholes and safety features like stop block, runaway switch, backstay, drag, catches, safety hooks, jazz rails, tub re-railers etc should be of sufficiently good quality and provided at intervals specified in regulation 87 of CMR 1957 and related circulars. They should be inspected regularly by a competent person and any faults found should be rectified immediately.

- 4) The signalling wires and its clamping should be properly installed and maintained. The code of signals should be prominently displayed at the haulage engine room and at all the places where the haulage regularly stops.
- 5) Efficient telephonic communication should be provided at all conspicuous points.
- 6) Travelling Roadway :
 - a) Travelling roadway should be provided separate from haulage roadway for persons to travel to and from their working place.
 - b) The travelling roadway should be made as specified in Regulation 88 (2) of CMR 1957 and other related circulars.
 - c) The travelling roadway should be maintained properly.
 - d) Except for purposes of inspection, examination or repair, every person other than an official or a haulage attendant shall travel by the travelling roadway.
- 7) No person should ride in haulage tubs / trolley / rope. Strict punitive action should be taken against persons found doing so.
- 8) Haulage tubs and its attachments should be of sufficiently good quality and as specified in regulation 89 of CMR 1957 and related circulars. They should be kept maintained and inspected regularly by a competent person and any faults found should be rectified immediately.
- 9) The haulage engines and ropes should be kept maintained and regularly inspected.

These are in addition to the various related circulars and other statutory provisions which should also be strictly followed.

This is for your kind information and necessary action.

Yours faithfully,

Head of Department (S&C)

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM, TS to CMD
- 4) CME (Safety), Region 3, Dy. CME (Safety), Region 2 & SOM (Safety), Region 1
-- for review and report to this office.
- 5) Area Safety Officer, All Areas --- For immediate circulation to all UG mines.

WESTERN COALFIELDS LIMITED
Office of the Director (Personnel)
Coal Estate, Nagpur

FAX MESSAGE

No. WCL/HOD(S&R)/

Date: 08. 09. 2006

To,
Chief General Manager's / General Manager's
All Areas (Except Wani Area)
WCL

Subject :- Precautions to be taken in the mines against gas explosions.

Dear sir,

As you are aware that a major disaster occurred in one of the underground mines of BCCL, resulting in multiple fatalities and a number of serious injuries probably due to explosion of gas. In light of the above disaster, the matter was discussed with CMD, WCL and it is desired that all precautionary measures should be taken in the mines of WCL in true spirit to prevent any such incidence.

You are therefore advised that all the underground mines of your area be immediately audited by respective Agents and Managers personally for ensuring implementation of the provisions of regulations, related circulars and recommendations of various court of enquiries with respect to gas and coal dust explosion.

In the above mentioned audit, special stress should be given to the following points,

- 1) Thorough precaution should be taken during blasting operation. Various gas detecting equipments should be kept in working order and used in the mines.
- 2) All parts of the mine which is not sealed off should be properly ventilated to prevent any accumulation of gas.
- 3) If stowing is done in the mine, the voids should be within the permissible limits.
- 4) All electrical equipments and cables / cable joints should be thoroughly checked.
- 5) Precautions against coal dust explosions should be taken.

These are in addition to the various circulars and statutory provisions regarding safety precautions in underground mines which should also be strictly implemented .

This is for your kind information and immediate action.

Yours faithfully,

Director (Personnel)

CC

- 1) CMD, WCL
- 2) D(T), P&P
- 3) HOD (S&C)

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

FAX MESSAGE

No. WCL/HOD(S&R)/

Date: 07. 09. 2006

To,
Chief General Manager's / General Manager's
All Areas (Except Wani Area)
WCL

Subject :- Additional precautions to be taken in the mines against gas explosions.

Dear sir,

There occurred a major accident in one of the mines of BCCL, where there is a likely of occurrence of multiple fatalities and a number of serious injury due to explosion of gas in an Underground mine. In view of the above accident, it is important that the following important precautions are taken so as to prevent recurrence of similar incident,

- 1) The rate of emission of inflammable gas in cubic meters per tonne of coal raised and the percentage of inflammable gas in the general body of air should be checked once in every 30 days strictly as per the provisions of Regulation 145 of CMR- 1957 and related circulars. The result of the same should be kept recorded.
- 2) The provision of regulation 116 of CMR 1957 and related circulars should be strictly followed for correct determination of the gassiness of the seams.
- 3) Where any working is extended to within 30 meters of any goaf or disused workings likely to contain an accumulation of inflammable gases, at least one borehole of 1.5 mts or more should be maintained in advance of the working. The drilling of this borehole should be done under the supervision of a competent person.
- 4) All unused workings which have not been sealed off, should be inspected once in seven days by a competent person for the presence of inflammable gas. The report of such inspections should be kept recorded.
- 5) General precautions with respect to ventilation should be strictly taken as per the provisions of regulation 146 of CMR-1957 as steps against gas explosion.
- 6) In a dry working, there is a risk of coal dust explosion. Thus, the provisions of regulation 123, 123A, 123B and 123C and related circulars should be strictly implemented.

These are in addition to the various related circulars and other statutory provisions which should also be strictly followed.

This is for your kind information and necessary action.

Yours faithfully,

HOD (S&R) CC

- 1) D(T), P&P
- 2) GM, TS to CMD
- 3) TS to D(P)
- 4) CME(Safety), Region-3 ; Dy.CME(Safety), Region-2 & SOM(Safety), Region-1
- 5) Area Safety Officer, All above areas

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

FAX MESSAGE

No. WCL/HOD(S&R)/

Date: 02. 08. 2006

To,
The CGM / GM
All Areas (except Wani Area) ,
WCL

Subject :- Precautions against fire in Underground Mines.

Dear sir,

In view of a recent incidence of fire in one of the mines of WCL and recommendation of the CGMs Co-ordination meeting held on 08.07.2006, it is felt that adequate precautions should be taken to prevent any incidence of underground fires.

You are requested to kindly advise the mine officials to take suitable steps, viz.

(a) Cleaning of Fallen Coal, (b) Sectionalisation of development districts, (c) Regular inspection of dis-used / old workings, (d) Idle day inspections, (e) Regular analysis of return air, etc to prevent any occurrence of spontaneous heating.

Yours faithfully,

HOD (S&R)

Copy to

- 1) Director Technical (P&P)
- 2) GM / TS to CMD
- 3) CME (Safety) - Region 3, Dy.CME(Safety) Region 2 & SOM(Safety) Region 1
- 4) Area Safety Officers, All above Areas.

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

No. WCL/HOD(S&R)/

Date: 31. 07. 2006

To,
The Suptd. Engineer (Excavation) / Incharge
Mungoli OC Mine
Wani Area

Subject :- Precautions to be taken during movement of HEMMs in Workshop premises.

Dear sir,

There occurred a fatal accident in Mungoli OC mine on 23.11.2005, where the deceased was runover by a dumper within the workshop premises. In this accident, it was revealed that sheer negligence and violation of the code of practice was responsible. In view of the above, it is important that the operation of HEMMs in any place should be made safe so as to prevent recurrence of the same.

Your attention is drawn to a circular on this subject, vide no. WCL/CGM(S&R)/ 8609-634, dated 15.12.2005, issued by this office. You are advised to go through this circular. The following points of this circular needs your personal attention and implementation to prevent recurrence of such incidence.

- 1) Restricting speed limits for HEMMs should be fixed at workshop premises and strict implementation of the same should be done.
- 2) Movement of HEMM and other vehicles & pedestrians should be segregated.
- 3) All HEMMs should be kept in safe and satisfactory working condition by
 - a) Proper and timely maintenance and procurement of spares.
 - b) Providing safety features like AVA, Head lights, Break lights, Rear view mirrors, Parking brakes, emergency brake, Steering lock etc.
 - c) Regular and proper system of checking and Monitoring by authorised officials.
- 4) A fool proof system should be established and enforced to ensure that the maintenance personnel and others to remain in safe place / rest shelter when not at work.
- 5) Strict punitive action should be taken against persons found loitering in the active movement zone of HEMM. etc

This is for your kind information and necessary action. An action taken report in this regard should be submitted to this office at the earliest.

Yours faithfully,

HOD (S&R)

CC

- 1) Director (Technical) / P&P
- 2) CGM, Wani Area
- 3) Sub Area Manager, Mungoli SA
- 4) SOM (Safety), Region 1 -- for review and report to this office.

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

No. WCL/D(T)P&P/ Safety/

Date: 03. 07. 2006

CIRCULAR

All CGM / GM, WCL Areas

Subject :- Precautions to be taken while inflating tyres of HEMM, Pay loaders and LHD's.

Dear sir,

There occurred a fatal accident in one of the mines of WCL, where the deceased had just concluded inflating a tyre of Payloader at the Auto shed, when the locking arrangement of the disk suddenly broke disturbing the mechanical confinement of the system due to which the tube burst. The deceased was thrown out and he struck the nearby shed girder, thus he was injured in head which led to his death.

It is therefore important that the following precautions while inflating tyres of HEMM including pay loaders and LHD's should be taken,

- 1) The work of inflating tyres of HEMM including pay loaders and LHD's should be taken up by only competent persons
- 2) Tyre inflation should be done inside a protective cage constructed for the purpose.
- 3) Only suitable type and matching locking ring of correct size should be used. While fitting a new lock ring, it should be ensured that the same fits correctly in its rim groove. The locking ring should be periodically examined for its suitability and record of such examination should be maintained (circular no. 9 of 1979).
- 4) A code of safe practice should be framed and strictly implemented in each mine / unit. Strict punitive action should be taken against persons found violating the same.

These are in addition to the various related circulars and other statutory provisions which should also be strictly followed.

This is for your kind information and necessary action.

Yours faithfully,

Director Technical (P&P)

Distribution :

- 1) GM, TS to CMD
- 2) HOD (S&R), WCL
- 3) CME (Safety), Region 1 & 3.
- 4) Area Safety Officer, All Areas

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

No. WCL/D(T) P&P/Safety/

Date: 05. 06. 2006

CIRCULAR

To,
The CGM / GM
All Areas, WCL

Subject :- Additional precautions to be taken in coal transportation

Dear sir,

It was observed during various inspections by ISO officials that, there are several idle persons present in the active working zone of HEMM and tippers. This is more prominent at places where contractor workers are engaged. The presence of unwanted / idle persons in the vicinity of moving vehicles is dangerous and may result in an accident.

Vide DGMS technical circular no. 2 of 1986, circular no. 2 of 1995, circular no. 9 of 1996 and recommendation of the Seventh Conference on Safety regarding employment of contractors workers, it is required that all contractual work should be done under constant supervision of a competent person.

In view of the above, the following precautions must be taken,

- 1) No helper / khalasi should be allowed in the active working zone of the mine.**
- 2) All contractual work should be placed under constant supervision of a competent person.**

These are in addition to the various related circulars and other statutory provisions which should also be strictly followed.

This is for your kind information and necessary action.

Yours faithfully,

Director Technical (P&P)

CC

- 1) GM, TS to CMD
- 2) HOD (S&R)
- 3) Sub-Area Managers / Managers of All Mines
- 4) Area Safety Officer, All Areas

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

No. WCL/D(T) P&P/Safety/

Date: 25. 05. 2006

CIRCULAR

To,
The CGM / GM
All Areas, WCL

Subject :- Additional precautions to be taken in coal Dump Yards

Dear sir,

There occurred a fatal accident in one of the mines of WCL, where a dumper ranover a group of persons sitting in the coal stock yard resulting in one fatality and one serious injury. In the above accident, it was revealed that absence of the following three, i) Supervision, ii) A proper system of dumping at the coal stock yard and iii) Proper rest shelter in the vicinity was principally responsible. In view of the above, it is important that the operations in the coal dump yards are made safe so as to prevent recurrence of the same.

The following additional important steps with respect to the operation in coal dump yard should be taken with immediate effect.

- 1) All loading operations and at all places where contractual workers are deployed should be under constant supervision of a competent person.
- 2) Rest shelters with adequate provision of lighting and drinking water should be provided at the vicinity of coal dump yards but at a safer place.
- 3) Pay loader operators shall not be provided with helpers, with a view to reduce the number of idle persons in the active zone of HEMM movement.

These are in addition to the various related circulars and other statutory provisions which should also be strictly followed.

This is for your kind information and necessary action.

Yours faithfully,

Director Technical (P&P)

CC

- 1) GM, TS to CMD
- 2) HOD (S&R)
- 3) Sub-Area Managers / Managers of All Mines
- 4) Area Safety Officer, All Areas

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

No. WCL/CGM(S&R)/

Date: 22. 02. 2006

To,
The Chief General Manager /
General Manager
All Areas, WCL

Subject :- Precautions to be taken in Surface Sand Stowing Bunkers.

Dear sir,

There occurred a fatal accident in the year 2006, where the deceased along with a co-worker was working in a surface sand stowing bunker (Katora Type). Near the borehole mouth of the sand stowing range, there was a vertical fence to prevent persons from going near the borehole. There was also a provision of a portable sieve cover for the borehole, but the same was kept away and was not in use on the fateful day.

The stowing was done for about two hours on that day prior to the blockage of the bore hole by a suspected piece of wood. One of the two workers present at the site was removing pebbles from outside the vertical fence at the site. The other person entered the vertical fence and tried to clean the borehole by inserting his hand inside it. Due to sudden clearance of the debris inside the bore hole, a negative pressure was created inside and the hand of this worker was sucked inwards. His shoulder plugged the mouth of the borehole and he was unable to free himself from it. His co- worker panicked and frantically called for help, but before help could reach him he succumbed due to cardio- respiratory arrest caused due to drowning.

In view of the above, it is important that the operation of surface sand stowing bunker in the mines of WCL are made safe so as to prevent recurrence of the same.

The following precautions should be taken at the surface sand stowing bunker,

- 1) The site of the bore hole should be suitably and securely fenced.
- 2) The bore hole mouth should be covered with a permanent sieved cover. The cover should be fixed securely by grouting / welding to prevent its removal.

- 3) No person should be allowed to enter the fenced area. If such entry becomes necessary than,
 - a) It should be done under the supervision of a competent supervisor.
 - b) Before entry, the sand and water should be stopped.
 - c) All cleaning operation should be done using mechanical means.
- 4) The site around the bore hole (outside the vertical fence) should be kept clean by regular pebble / debris cleaning to prevent the same from entering the fence.
- 5) Only authorised persons who have been suitable trained should be allowed to work in the sand stowing bunker.

These are in addition to the various related circulars and other statutory provisions which should also be strictly followed.

This is for your kind information and necessary action.

Yours faithfully,

Chief General Manager (S&R)

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM, TS to CMD
- 4) CME (Safety), Region 1, 2 & 3 -- for review.
- 5) Area Safety Officer, All Areas -- for monitoring.

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

No. WCL/CGM(S&R)/

Date: 14. 12. 2005

To,
The CGM / GM
All Areas, WCL

Subject :- Precautions to be taken in operation of Haulages in Underground mines.

Dear sir,

There were two fatal accidents in the year 2005, where the deceased was hit by haulage tubs. In both the two accidents, it was revealed that sheer ignorance and violation of the code of practice was responsible. In view of the above, it is important that the operation of Haulages in the underground mines of WCL are made safe so as to prevent recurrence of the same.

However, the following important steps with respect to the operation of haulages should be taken,

1) Code of Safe Practice :

- a) There should be a comprehensive code of practice framed for Haulage Khalasi / Clipman and Haulage operator specific for each haulage.
- b) This code of practice should be prominently displayed near the Haulage engine and coupling / de-coupling points.
- c) It should be ensured by periodic checks / inspections that the procedure of work is done strictly as per the code of practice.
- d) Strict punitive action should be taken against persons found violating this code of practice.

2) Only authorised persons should be allowed to work as Haulage Khalasi / Clipman and Haulage operator.

3) In the Haulage roadway, the tracks, drum, pulley, sheaves, rollers, manholes and safety features like stop block, runaway switch, backstay, drag, catches, safety hooks, jazz rails, tub re-railers etc should be of sufficiently good quality and provided at intervals specified in regulation 87 of CMR 1957 and related circulars. They should be inspected regularly by a competent person and any faults found should be rectified immediately.

4) The signalling wires and its clamping should be properly installed and maintained. The code of signals should be prominently displayed at the haulage engine room and at all the places where the haulage regularly stops.

5) Efficient telephonic communication should be provided at all conspicuous points.

6) Travelling Roadway :

- a) Travelling roadway should be provided separate from haulage roadway for persons to travel

to and from their working place.

- b) The travelling roadway should be made as specified in Regulation 88 (2) of CMR 1957 and other related circulars.
 - c) The travelling roadway should be maintained properly.
 - d) Except for purposes of inspection, examination or repair, every person other than an official or a haulage attendant shall travel by the travelling roadway.
- 7) No person should ride in haulage tubs / trolley / rope. Strict punitive action should be taken against persons found doing so.
- 8) Haulage tubs and its attachments should be of sufficiently good quality and as specified in regulation 89 of CMR 1957 and related circulars. They should be kept maintained and inspected regularly by a competent person and any faults found should be rectified immediately.
- 9) The haulage engines and ropes should be kept maintained and regularly inspected.

These are in addition to the various related circulars and other statutory provisions which should also be strictly followed.

This is for your kind information and necessary action.

Yours faithfully,

Chief General Manager (S&R)

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM, TS to CMD
- 4) CME (Safety), Region 1, 2 & 3 -- for review and report to this office.
- 5) Area Safety Officer, All Areas -- for immediate ATR of all OC mines in your area.

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

No. WCL/CGM(S&R)/

Date: 14. 12. 2005

To,
The CGM / GM
All Areas, WCL

Subject :- Precautions to be taken in operation of HEMMs in Opencast mines.

Dear sir,

There were three fatal accidents in the year 2005, where the deceased was runover by dumper. In all the three accidents, it was revealed that sheer negligence and violation of the code of practice was responsible. In view of the above, it is important that the operation of HEMMs in the opencast mines of WCL are made safe so as to prevent recurrence of the same.

However, the following important steps with respect to the operation of HEMMs should be taken,

- 1) Traffic Rules :
 - a) Traffic rules should be formulated in the mines.
 - b) Workmen and supervisors should be made aware of the traffic rules.
 - c) The traffic rules should be strictly implemented. Strict punitive action should be taken against persons violating the same.
- 2) Restricting speed limits for HEMMs should be fixed at various vulnerable places and strict implementation of the same should be done.
- 3) Effort should be made to formulate an effective incentive system which will encourage HEMM operators to make the desired number of trips over a longer period of time within the shift. This will reduce undue hurry and reckless driving.
- 4) For minimising traffic density, regular time-motion study should be conducted.
- 5) For minimising traffic congestion, planned deployment of loading machines should be done.
- 6) Movement of HEMM and other vehicles & pedestrians should be segregated.
- 7) All HEMMs should be kept in safe and satisfactory working condition by
 - a) Proper and timely maintenance and procurement of spares.
 - b) Providing safety features like AVA, Head lights, Break lights, Rear view mirrors, Parking brakes, emergency brake, Steering lock etc.
 - c) Regular and proper system of checking.
 - d) Monitoring by authorised officials.

- 8) Rest shelters should be provided at proper and safe places so that workmen may not require to cross haul road repeatedly.
- 9) A fool proof system should be established and enforced to ensure that the maintenance personnel and others to remain in rest shelter when not at work.
- 10) A safe system of providing drinking water for persons during the shift should be established and enforced.
- 11) Strict punitive action should be taken against persons found loitering in the active working zone of HEMM.
- 12) Risk assessment should be conducted in the mines with particular stress to safe movement of HEMM.

These are in addition to the various related circulars and other statutory provisions which should also be strictly followed.

This is for your kind information and necessary action.

Yours faithfully,

Chief General Manager (S&R)

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM, TS to CMD
- 4) CME (Safety), Region 1, 2 & 3 -- for review and report to this office.
- 5) Area Safety Officer, All Areas -- for immediate ATR of all OC mines in your area.

WESTERN COALFIELDS LIMITED
Safety & Conservation Department
Coal Estate, Nagpur

No. WCL/CGM(S&R)/

Date: 26. 10. 2005

To,
The CGM / GM
All Areas, WCL

Subject :- Precautions to be taken in abandoned / discontinued mines.

**Ref. :- 1) Mishap in the Rajarappa OC mine of CCL (News clipping enclosed)
2) Letter no. WCL : CMD : Secy : 10 . S / 150 (enclosed)**

Dear sir,

There was a mishap in Rajarappa OC mine of Central Coalfields Limited on 29th September 2005, where several nearby villagers were buried alive in an abandoned mine. In view of the above incident, it is important that the abandoned mines of WCL are secured properly so as to prevent unauthorised persons from entering the same. It is also important to hand over such property to the state authority as early as possible after completion of protective works.

However, the following important steps with respect to the Abandoned / discontinued mines should be taken ,

1) Notice of abandonment / discontinuance of working (for a period exceeding 60 days) should be given by the owner, agent or manager to the Chief Inspector of Mines and the Regional Inspector of Mines in Form 1 within the period stipulated in regulation 6 of CMR - 1957.

2.1) In case where any mine or seam or section is proposed to be abandoned or the working thereof to be discontinued or rendered inaccessible, the plan and section should be brought up to date before such abandonment or at the time of discontinuance, as the case may be.

2.2) In pursuance of Reg. 58(3) of CMR - 1957, it is required that all plans and sections prepared should be accurate within the limits of error as specified in the appendix of Circular no. 20 of 1966 & Circular no. 42 of 1967.

3.1) Where any mine, or seam or section thereof is abandoned or the working thereof has been discontinued over a period exceeding 60 days, the owner should within 30 days after the abandonment or within 90 days of the discontinuance of the workings, as the case may be, submit to the Chief Inspector two true copies of the up to date plan and section of the workings of the mine or seam or section maintained under regulation 59(1). Every such copy should show the bearing and distance of atleast one of the shafts or openings of the mine from a trijunction or revenue pillar or from any other prominent and permanent surface feature, the position of all water dams built below ground (with their dimensions and other particulars of construction) and also the spot levels at the ends of the workings.

3.2) The Abandoned Mine plan should be prepared as per the checklist provided in Circular no. 1 of 1987

(Coud. in page 2)

4) The Chief Inspector may, by an order in writing, require the owner of any mine to which Regulation 6 applies to construct in the mine belowground or on the surface such protective works within such time as he may specify therein. This should be complied with immediately.

5.1) Shafts and opencast workings temporarily or permanently out of use and any place in or about an excavation which is dangerous, shall be completely filled in or kept securely fenced.

5.2) Before a mine is abandoned or the working thereof discontinued, the owner, agent or manager should cause the top or entrance of every shaft, incline or other opening into the mine to be fenced by a structure of a permanent character sufficient effectively to prevent persons falling into or entering the same.

These are in addition to the various other related statutes which should also be strictly followed.

This is for your kind information and necessary action.

Yours faithfully,

Chief General Manager (S&R)

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM, TS to CMD
- 4) CME (Safety), Region 1, 2 & 3 -- for review and report to this office.
- 5) Area Safety Officer, All Areas -- for immediate ATR of all such mines in yor area.