



WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

No. WCL/CGM(S&C)/

Date: 12.12.2013

To,  
The General Manager  
All Areas, WCL

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

Dear sir,

There occurred an unfortunate fatal accident in one of the opencast mines of Western Coalfields Limited where the deceased Senior Supervisor of the HOE contractor (overall supervisor of the contractual work ) was moving on foot without any justifiable reason on the overburden bench at about 1.30 am. While on his way to an excavator, he came behind a tipper which was to spot itself for loading. At that very moment, this tipper started reversing and the deceased was run over by it causing fatal injuries.

During preliminary inquiry, it was revealed that sheer negligence and violation of the code of practice was responsible for the occurrence of this accident. In view of the above, it is important that the operation of HEMMs in the opencast mines of WCL are to be 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) a) No person should be allowed to loiter / roam around any part of the mine (including OB dumps, coal stock yards, HEMM workshops, haul roads and all other places in the mine).
- b) All idle persons should be present only in the rest shelters provided for the same.
- c) Once a machine starts operation, the working area of such machine should become a '**No Man's land**' for all persons not required for the operation of that machine.
- d) If any supervisor is present at the site, he should place himself at an elevated and safe place / raised platform away from the moving machines.
- e) He should be provided with red and green flags for signaling to operators and red and green lights/torches for the same during dark hours.
- f) Strict punitive action should be taken against persons violating the same.

( PTO )

- 2) All employees engaged in opencast mines should wear fluorescent straps / fluorescent jackets. Till procurement and supply of the same, fluorescent strips should be pasted on the workman's helmet. Retro reflective tape should be provided all around vehicles for improving their visibility in low light.
- 3) Separate road for light vehicles and pedestrians (wherever required) should be provided and maintained.
- 4) Adequate lighting should be provided at all working places in opencast mines. Preference should be given to high mast type tower lights for better illumination.
- 5) Traffic Rules :
  - a) Traffic rule should be formulated and strictly implemented in all mines and patches. Over crowding of vehicles should be avoided. '**Blind spots**' of each machine should be identified and the same should be made aware to one and all. No person or vehicle should be allowed to be present within such '**Blind spots**'.
  - 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.
- 6) Speed limits for HEMMs should be fixed at various vulnerable places and strict implementation of the same should be done.
- 7) Code of safe practices / Standard Operating Procedures (SOPs) should be framed for all operations in opencast mines and the same should be circulated to all concerned workmen and strictly implemented.
- 8) Effort should be made to formulate a 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.
- 9) Adequate numbers of rest shelters with drinking water facility should be provided at appropriate and safe places of the mine. All rest shelters should be provided with posters containing do's and don't related to various mining operations.
- 10) Maintenance and cleaning of all HEMMs and machines in the mine should be done as per schedule to ensure proper functioning of all safety features of the machine. All HEMMs should be periodically checked for availability and proper functioning of all its safety features AVA, Head lights, Break lights, Rear view mirrors, Parking brakes, Emergency brake, Steering lock etc. and brakes and a record of the same should be kept.

( PTO )

11) Special attention should be given for ensuring safety in all contractual works and safe working of all contractor workmen including coal transportation works and petty contract jobs in the mine / workshop and other places.

12) Safety committee of the mine should be re-activated and all recommendations should be implemented in a time bound manner. Discussions should also be done on safety of contractual works in the mine during each meeting. Participation of contractor's workman / supervisor in the meeting should be ensured.

13) Risk assessment conducted in all opencast mines should give considerable stress to safe movement of HEMM.

14) Dust suppression arrangement must be provided and maintained to improve visibility and eliminate health hazards.

**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,

General Manager (S&C)

Copy for kind information :

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM(CA)/ TS to CMD

CC

Area Safety Officer, All Areas -- for ensuring immediate implementation.



WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

No. WCL/CGM(S&C)/

Date: 14.12.2013

To,  
The General Manager  
All Areas, WCL

**Subject :- Precautions to be taken in operation of Tippers / Trucks at CHPs.**

Dear sir,

There occurred an unfortunate fatal accident in one of the opencast mines of Western Coalfields Limited where at about 10.30 pm, the deceased contractor tipper operator spotted his tipper at the grizzly of the crusher and came to the rear of his vehicle to manually open the pin of his tipping dala. At this moment, another contractor tipper reversed to spot at the grizzly of this crusher and hit the contractor tipper operator fatally injuring him.

During preliminary inquiry, it was revealed that sheer negligence and violation of the code of practice was responsible for the occurrence of this accident. In view of the above, it is important that the operation of tippers / trucks at the CHPs are to be made safe so as to prevent recurrence of the same.

However, the following important steps with respect to the operation of tippers / trucks at CHPs should be taken,

- 1) Entry of trucks and tippers at the CHP should be restricted to avoid traffic congestion.
- 2) The entry and exit route of trucks and tippers should be separated as far as possible.
- 3) Traffic rule should be formulated, prominently displayed and strictly implemented in CHP premises. Workmen, supervisors and outside truck / tipper operators should be made aware of the traffic rules.
- 4) Only one truck / tipper should be allowed to unload at the grizzly at a time.
- 5) The operation of opening of the tipper dala at the time of unloading should be automated as provided by OEM.
- 6) Rear view camera should be fitted in all the tippers / trucks.
- 7) The tipper / truck operator should not be allowed to get down from his vehicle inside CHP premises. The tippers / trucks should not accompany any helper inside CHP premises.

( PTO )

- 8) No person should be allowed to loiter / roam around any part of the CHP and its vicinity.
- 9) Code of safe practices / Standard Operating Procedures (SOPs) should be framed for all operations in CHP and the same should be widely circulated, displayed prominently and strictly implemented.
- 10) All idle persons should be present only in the rest shelters provided for the same at a safe location.
- 11) If any supervisor is present at the site of CHP, he should place himself at an elevated and safe place / raised platform away from the moving trucks and tippers around the CHP.
- 12) The supervisor should be provided with red and green flags for signaling to operators and red and green lights/torches for the same during dark hours.
- 13) All employees engaged in CHPs should wear fluorescent straps / fluorescent jackets. Till procurement and supply of the same, fluorescent strips should be pasted on the workman's helmet.
- 14) Adequate lighting should be provided at all points of the CHP.
- 15) Road worthiness of all trucks and tippers plying in CHP premises should be checked by a competent person authorised for the purpose and the record of the same should be kept in a bounded page book. All trucks / tippers should be regularly checked for availability and proper functioning of all its safety features like AVA, Head lights, Break lights, Rear view mirrors, Parking brakes, brakes etc, etc.
- 16) Dust suppression arrangement must be provided and maintained to improve visibility and eliminate health hazards at CHP premises.
- 17) Strict punitive action should be taken against persons violating the above.

**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,

General Manager (S&C)

Copy for kind information :

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P

CC

Area Safety Officer, All Areas -- for ensuring immediate implementation.

## **Do's and Don't for Tipper / Dumper Drivers engaged in opencast mine and Surface Coal Transport**

- 1) Before starting his vehicle, he should check his vehicle and ensure that the head lights, brake lights, rear view mirror, AVA, brake, horn, tyres, fire extinguishers and other safety features in his vehicle are in proper working order.

He should make himself aware of the route to be followed from his supervisor.

He should also go around his vehicle and ensure that no one is present under or behind his vehicle and blow horn before starting his vehicle.

- 2) He should always wear helmet, mining shoe, florescent jacket, dust mask while on duty and should fasten his seat belt while driving.
- 3) He should never drive rashly. He should be fully aware of the traffic rules of the mine and strictly implement the same.
- 4) He should never drive under the influence of alcohol, should not use mobile phone while driving and should not sleep while on duty.
- 5) He should ensure that nobody is present behind his vehicle before reversing.
- 6) He should not carry any unauthorised person in his vehicle.
- 7) He should not get down from his vehicle except only at designated spots. While getting down from vehicle he should ensure that his vehicle is parked safely, parking brakes have been applied, the engine is shutdown and the ignition key of the vehicle is with him.
- 8) He should be IME / PME checked and trained in VT centers before employment.
- 9) He should always carry his photo I-card containing all his details.
- 10) If his vehicle is not working properly or is under breakdown, he should get his vehicle checked and repaired by only authorised persons of his company / employer

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**Check List**  
**Card for Tipper / Dumper Drivers**

**Before marking attendance :**

- 1) Have I been IME / PME checked ? Was I trained in VTC for this work ?
- 2) Am I carrying my I-card with all my details ?
- 3) Did I consume alcohol today ?

**Before starting vehicle :**

- 4) Is the place of work and route to be followed has been explained to me by my supervisor and have I understood the same ?
- 5) Are the head lights, brake lights, rear view mirror, AVA, brake, horn, tyres, fire extinguishers and other safety features of my vehicle in proper working order ? Is any one present behind or under my vehicle ?
- 6) Am I wearing my helmet, mining shoe, florescent jacket, dust mask ? Is my seat belt fastened ?
- 7) Do I know the traffic rules of this mine ? Am I following it properly ?

**While reversing :**

- 8) Is any one present behind my vehicle ?

**While getting down from vehicle :**

- 9) Is this the designated and safe place to get down from my vehicle ? Did I ensure, that the parking brake / dump brake is in 'ON' position before getting down ? Is the engine shut off ? Do I have the ignition keys with me ?

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WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

**IMPORTANT**

No. WCL/CGM(S&C)/

Date: 03. 10. 2013

To,  
The General Manager  
All Areas (except Pathakhera Area), WCL

**Sub :- Dangers at External Overburden Dumps**

Dear sir,

Recently an accident took place at Kulda OCP of Basundhara Area, where an old and abandoned overburden dump slid trapping local inhabitants who were reportedly at the bottom of the OB dump for collecting pieces of coal / shale. This was discussed in details at the CMDs meet held on 5<sup>th</sup> September 2013.

In view of the above, it is recommended that,

- a) Top soil should not be dumped with OB. Proper
- b) The height of all Overburden dumps should be kept within permitted limit and dump formation should be as per design. Proper dozing and compaction of dump benches should be done. Grading of top OB dump benches should be done at 2% for drainage of rain water. Garland drains should be maintained at ground level to prevent accumulation of water.
- c) Regular surveying and monitoring of OB dumps should be done.
- d) Evacuation of surrounding villages or human habitation falling in danger area of OB dumps should be done.
- e) Effective boundary or other mechanism should be established to prevent unauthorised people from entering the OB dump area.
- f) Adequate numbers of Warning Notice Boards declaring "PROHIBITED AREA" should be placed on all sides of the active and old overburden dumps for warning and prohibiting the local population from approaching the OB dump area. Similar warnings may also be painted on big boulders at the bottom of old OB dumps as the notice boards may get damaged / stolen in due course of time.
- g) An exclusive person of the mine should be authorised for inspecting all the sides of external overburden dumps (both active and old) regularly to detect any unauthorised entry or encroachment near the bottom of the dumps.

You are requested to kindly arrange to ensure that the above recommendations are complied with in all OC mines of your area.



Yours faithfully,

Chief General Manager (S&C)

Copy to,

- 1) D(T) P&P --- for kind information.
- 2) Area Safety Officer, above areas --- for ensuring immediate steps for compliance and feedback.

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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No. WCL/CGM(S&C)/

Date: 10. 06. 2013

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

**Sub :- Important precautions against accidents in opencast mines.**

Dear sir,

During 2013, two similar type of fatal accidents took place in opencast mines of WCL.

These fatal accidents took place mainly due to negligence on part of dumper operators and workmen during their movement in the mine premises.

In view of the above, the following important precautions should be taken in all opencast mines to prevent accidents,

- a) The mine geometry and OB dumps should be maintained as per provisions of DGMS permissions.
- b) Design and system of maintenance of haul roads should be such that sufficient width, proper gradient, dividers and berms (wherever required) are always maintained.
- c) Separate road for light vehicles and pedestrians (wherever required) should be provided and maintained.
- d) Adequate lighting should be provided at all working places in opencast mines. Preference should be given to high mast type tower lights for better illumination.
- e) Adequate numbers of rest shelters with drinking water facility should be provided at appropriate and safe places of the mine. All rest shelters should be provided with posters containing do's and don'ts related to various mining operations.

(PTO)

- f) Maintenance and cleaning of all HEMMs and machines in the mine should be done as per schedule to ensure proper functioning of all safety features of the machine. All HEMMs should be periodically checked for availability and proper functioning of all its safety features and brakes and a record of the same should be kept.
- g) Code of safe practices / Standard Operating Procedures (SOPs) should be framed for all operations in opencast mines and the same should be circulated to all concerned workmen and strictly implemented.
- h) Traffic rule should be formulated and strictly implemented in the mine. Over crowding of vehicles should be avoided. '**Blind spots**' of each machine should be identified and the same should be made aware to one and all. No person or vehicle should be allowed to be present within such '**Blind spots**'.
- i) No dumper operator should be allowed to drive without fastening seat belt.
- j) All employees engaged in opencast mines should wear fluorescent straps / fluorescent jackets. Till procurement and supply of the same, fluorescent strips should be pasted on the workman's helmet. Retro reflective tape should be provided all around vehicles for improving their visibility in low light.
- k) It should be strictly ensured that all departmental and contractual workmen wear safety helmet, mining shoes, dust masks, safety harness (in case of working at height), and other job related safety equipments like ear plugs, goggles, gloves etc.)
- l) Competent and adequate number of supervisors should be deployed for round the clock supervision of all operations in the mine.
- m) Surprise back shift inspection by senior officials of mine, sub-area and area levels should be done frequently to curb unsafe practices and ensure safe operation of the mine.
- n) Daily pit top safety talks should be strictly conducted to make the workmen (both departmental and contractual) aware of all the hazards in the mine and the precautions to be taken against the same.
- o) No person should be allowed the loiter / roam around any part of the mine (including OB dumps, coal stock yards, HEMM workshops, haul roads and all other places in the mine). All idle persons should be present only in the rest shelters provided for the same. Once a machine starts operation, the working area of such machine should become a '**No Man's land**' for all persons not required for the operation of that machine.

(PTO)

- p) No unauthorised person should be allowed to enter any part of the mine (including OB dumps, coal stock yard etc.)
- q) Special attention should be given for ensuring safety in all contractual works and safe working of all contractor workmen including coal transportation works and petty contract jobs in the mine / workshop and other places.
- r) Safety committee of the mine should be re-activated and all recommendations should be implemented in a time bound manner. Discussions should also be done on safety of contractual works in the mine during each meeting. Participation of contractor's workman / supervisor in the meeting should be ensured.
- s) Alcohol meter / Breath analyzer tests should be conducted randomly and any person found in drunken state should be strictly punished.
- t) Dust suppression arrangement must be provided and maintained to improve visibility and eliminate health hazards.
- u) All workmen should be provided with statutory training before engaging them in work in the mine.
- v) Functioning of Workmen Inspector should be re-activated. Their observations / recommendations in form 'U' should be implemented in a time bound manner.
- w) All statutory mine officials should maintain their statutory diary and keep them updated daily.
- x) All mines should formulate Safety Management Plan (SMP) based on risk assessment. The same is required to be periodically reviewed and communicated to all concerned.

**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&C)

Copy for kind information :-

- 1) Director Technical (Operations)

- 2) Director Technical (P&P)
- 3) GM (Corporate affairs)

Copy to,

- 1) Region Incharge (Safety Region 1,2 &3) and all ISO officials.
- 2) Area Safety Officer, All Areas (except Pathakhera Area) --- For immediate circulation to all OC mines and ensure strict implementation.



WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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No. WCL/CGM(S&C)/

Date: 02. 04. 2013

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

Sub :- Fatal Accident due to fall of roof at junction.

Dear sir,

Recently an unfortunate fatal accident took place at one of the underground mine of WCL due to roof fall at junction resulting in two fatalities and one serious injury.

This fatal accident took place due to inadequately supported roof at the junction near the working faces, non-compliance of provisions of SSR and working without proper supervision by front line supervisor.

In view of the above, the following precautions should be taken in case of similar conditions in the underground mines,

- a) All underground workings should be properly supported as per provisions of approved SSR. The approved SSR should be prominently displayed in the respective district and all supervisory staff and support crew should be made aware of the same.
- b) All workings in underground should be done under constant and adequate supervision.
- c) The supports at all workings in underground should be regularly tested for their efficacy and the result of the same should be kept recorded in a bounded book kept for the purpose.
- d) Additional and competent Support should be erected / installed at all junctions and near geologically disturbed places.

**(PTO)**

e) Strata behavior monitoring should be done using instruments like tell tale, extensometers, load cell etc. The result of such instrumentation should be recorded in a bounded paged book, analyzed and discussed with all mine officials and supervisors.

**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&C)

Copy for kind information :-

- 1) Director Technical (Operations)
- 2) Director Technical (P&P)
- 3) GM (Corporate affairs)

Copy to,

- 1) Region Incharge (Safety Region 1,2 &3) and all ISO officials.
- 2) Area Safety Officer, All Areas (except Wani Area) --- For immediate circulation to all UG mines and ensure implementation.



WESTERN COALFIELDS LIMITED

Safety & Conservation Department

Coal Estate, Nagpur

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No. WCL/CGM(S&C)/

Date: 26. 09. 2012

To,

The CGM/GM

All Areas (except Wani Area), WCL

**Sub :- Fatal Accident to pump khalasi due to fall of roof at Pumping Station**

Dear sir,

Recently an unfortunate fatal accident took place in Shobhapur UG mine of WCL due to roof fall at pumping station.

This fatal accident took place due to inadequately supported roof at pumping station, dressing of roof without supervision and presence of the deceased in the vicinity of the place where roof dressing was being done.

In view of the above, the following precautions should be taken in case of similar conditions in the underground mines,

- a) All underground pumping stations, electrical substations, reserve stations, miner stations etc should be permanently supported and adequately illuminated.
- b) If workmen are engaged for any work outside the working district, the work should be executed under the supervision of a competent supervisor.
- c) All isolated places of the mine where workmen are deployed, should be inspected by competent supervisor in every shift.

**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&C)

Copy for kind information :-

- 1) Director (Technical)
- 2) GM (Corporate affairs)

Copy to,

- 1) Region Incharge (Safety Region 1,2 &3) and all ISO officials.
- 2) Area Safety Officer, All Areas --- For immediate circulation to all UG mines and ensure implementation.



WESTERN COALFIELDS LIMITED

Safety & Conservation Department

Coal Estate, Nagpur

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No. WCL/CGM(S&C)/

Date: 13. 09. 2012

To,  
The CGM/GM

All Areas (except Wani Area), WCL

**Sub :- Accident due to inrush of water resulting from joining of face with waterlogged working.**

Dear sir,

Recently two unfortunate identical fatal accidents took place in the UG mines of CIL due to inrush of water due to joining of active coal face with known waterlogged working. One of the two above mentioned accident took place at Rajur Incline, Wani North Area, WCL.

Both the fatal accidents took place because of drivage of heading towards known water logged gallery without taking precautions. Thus, non-compliance of statutory provisions, complacency, not identifying hazards & associated risks were the root cause of these accidents.

In veiw of the above, the following precautions should be taken in case of similar conditions in the underground mines,

- a) All known water logged underground workings should be kept de-watered.
- b) If any headings is driven towards the water logged workings than all precautions should be taken. Advance bore holes should be driven as per pattern to ascertain the remaining parting thickness.
- c) Burn side boring machines should be provided and used.
- d) The accuracy of parting thickness and direction of the gallery should be re-checked.

**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&C)

Copy for kind information :-

- 1) Director (Technical)
- 2) GM (Corporate affairs)

Copy to,

- 1) Region Incharge (Safety Region 1,2 &3) and all ISO officials.
- 2) Area Safety Officer, All Areas --- For immediate circulation to all UG mines and ensure implementation.

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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No. WCL/CGM(S&C)/

Date: 30. 04. 2012

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

**CIRCULAR**

**Subject :- Precautions to be taken while transporting overburden in opencast mines.**

Dear sir,

There occurred a recent fatal accident, where the deceased was supervising dumping of overburden for preparation of a ramp. While he was guiding a dumper operator, a boulder from the reversing dumper fell on the deceased causing serious injuries. He died while being shifted to Nagpur for further treatment.

In view of the above, it is important that the operation of transportation of overburden in opencast mines of WCL are made safe so as to prevent recurrence of such accidents. Therefore, the following important preventive steps with respect to the operation of transportation of overburden should be immediately taken,

- a) Loading machine operators should ensure that dumpers are not overloaded. They should also ensure that big boulders are not place at the top of the load on a dumper. Such un-stabilised boulders on dumpers may fall from moving dumper causing serious accident.
- b) All supervisors engaged in loading or dumping should position themselves at a safe and elevated place away from the proximity of the moving dumpers.
- c) Supervisors and workmen working in the mine should avoid using umbrellas during their work as such objects inadvertently obstructs vision of the person using 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,

Chief General Manager (S&C)

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P

- 3) GM (Corporate affairs)
- 4) Region Incharge (Safety Region 1,2 &3) and all ISO officials.
- 5) Area Safety Officer, All Areas --- For immediate circulation to all OC mines and ensure implementation.



WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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No. WCL/CGM(S&C)/

Date: 19. 01. 2011

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

Subject :- Precautions to be taken while repairing and fitting in HEMMs and other machineries.

Ref. :- Our earlier letter no. WCL/CGM(S&C)/6644-670, 16.10.2010 to area CGMs/GMs.

Dear sir,

An unfortunate fatal accident had occurred in one of the opencast mines of WCL, where while replacing a crawler chain, the deceased EP fitter was standing near a hydraulic excavator and giving directions to lower the traction frame on the laid down crawler chain. Suddenly, one small metal chip flew from the under carriage and hit the deceased in his lower abdomen. He died while undergoing treatment in the hospital.

In view of the above accident, it was directed by competent authority that all persons engaged for fitting / repair of crawler chains or any other parts of machinery should be provided with "bullet proof apron" or an equivalent type of apron made of thick leather (or any other competent material) and helmets with transparent face shield which can prevent penetration of any projectile that may come out of the machinery or any of its part while fitting / repair.

Area General Managers are authorised to purchase such aprons as per their DOP. This is with the approval of Competent authority.

This is for your kind information.

Yours faithfully,

Chief General Manager (S&C)

Copy to,

- 1) GM (MM), Incharge, WCL Hq.
- 2) TS to D(T) P&P
- 3) TS to D(T) Opn.
- 4) Area Safety Officer, all areas
- 5) Chief Manager (E&M) / S&C, WCL hq.

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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No. WCL/CGM(S&C)/

Date: 01. 12. 2010

To,

Chief General Manager's / General Manager's  
All Areas, WCL

**Subject :- Precautions to be taken while repairing and fitting in HEMMs and other machineries.**

**Ref. :- Our earlier letter no. WCL/CGM(S&C)/6644-670, 16.10.2010**

Dear sir,

An unfortunate fatal accident had occurred in one of the opencast mines of WCL, where while replacing a crawler chain, the deceased EP fitter was standing near a hydraulic excavator and giving directions to lower the traction frame on the laid down crawler chain. Suddenly, one small metal chip flew from the under carriage and hit the deceased in his lower abdomen. He died while undergoing treatment in the hospital.

In view of the above accident, it has been directed by competent authority that all persons engaged for fitting / repair of crawler chains or any other parts of machinery should be provided with "bullet proof apron" or an equivalent type of apron made of thick leather (or any other competent material) and helmets with transparent face shield which can prevent penetration of any projectile that may come out of the machinery or any of its part while fitting / repair.

**You are requested to send an indent for procurement of suitable numbers of such aprons.**

This is for your kind information and necessary action.

Yours faithfully,

Chief General Manager (S&C)

CC

- 1) Director (Technical) / Opn
- 2) Director (Technical) / P&P
- 3) GM, TS to CMD
- 4) GM (Mining) / Region Incharge, Region 1 & 3, Chief Manager (Mining) / Region Incharge, Region 2.
- 5) Area Safety Officer, All Areas

## **DRAFT CHECK LIST FOR INSPECTION OF FIREY MINES**

- 1) Isolation and Sectionalisation stoppings:
  - a) Lag in construction.
  - b) Constructed as per specification
  - c) Is explosion proof stoppings required? If so, are they made as per requirements ? and specifications of the same.
  - d) Preparatory stoppings
  - e) Stock of adequate material in underground for sealing.
- 2) Removal of fallen coal & coal dust from old / unused workings and return airway.
- 3) Stone dusting done as per statute. (Indent, supply & use of stone dust in the mine vis a vis production )
- 4) Stone dust barrier. (Required, Provided, Maintained & inspected)
- 5) Gas detecting equipments ( Required, Provided, In working Order, Caliberated, Used in general shift and back shifts)
- 6) Telemonitoring system if provided in the mine.
  - a) Location and number of sensors, Caliberated, In working order, etc.
  - b) Audio visual alarms in underground and Surface, Alarm setting and In working order.
  - c) Provision of Power back-up.(In working order)
  - d) Reading (seen by officials in all the three shifts)
  - e) System of reading analysis ( In all the shifts )
  - f) Awareness of the system amongst all supervisory staff.
  - g) Availability of spare sensors.
- 7) Availability of Water hydrants / Fire extinguishers in UG and surface (refilling, knowledge of use)
- 8) Formation of sector-wise inspection programme.
- 9) Inspection of stoppings, old / unused workings & return airways as per statute (Inspection record)
- 10) Idle day inspection (inspection record)
- 11) Sampling and air analysis as per statute and effective measures taken(stopping-wise / place-wise record keeping)
- 12) Escape route (marked, awareness of workmen)



- 13) Non- existence of traveling roadway in return airway
- 14) Fire fighting plan (Record, display, awareness)
- 15) Emergency organisation plan / disaster management plan (Record, display, awareness)
- 16) Simulation exercise / Mock rehearsal (Record, awareness) – minimum two rehearsals per year
- 17) Number of SCSR available as per statute.
- 18) Implementation status of the recommendations of last safety audit & court of enquiries vis a vis dangers due to underground fire / explosion
- 19) PQ survey ( Last done, record, analysis)
- 20) Rescue tracings.(available, updation, awareness)
- 21) List of rescue apparatus available at the mine as per Schedule III
- 22) Availability of adequate no. of rescue trained persons in the mine& their periodic rescue practices.
- 23) Effective telecommunication within the mine, with surface, with area, with dispensary/hospital and with rescue rooms / station and availability/ display of important telephone numbers.

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

No. WCL/CGM(S&C)/

Date: 12. 10. 2010

To,  
Chief General Manager's / General Manager's  
All Areas, WCL

**Subject :- Precautions to be taken while repairing and fitting in HEMMs  
and other machineries.**

Dear sir,

A unfortunate fatal accident had occurred in one of the opencast mines of WCL, where while replacing a crawler chain, the deceased EP fitter was standing near a hydraulic excavator and giving directions to lower the traction frame on the laid down crawler chain. Suddenly, one small metal chip flew from the under carriage and hit the deceased in his lower abdomen. He died while undergoing treatment in the hospital.

A similar accident took place in another OC mine of WCL in the year 2004 where, while re-setting the idler wheel in between the track pad grooves by propelling the EKG shovel to and fro, a chip of metal flew and pierced the left eye of a mining sirdar standing nearby causing serious injury. The injury turned fatal during treatment.

In view of the above accidents, it is important that the following important precautions are taken so as to prevent recurrence of similar accident,

- 1) All old and repaired crawler chains being fitted, should be thoroughly checked before fitting for defects, faulty welding and other weak parts which can break and fly during the process of fitting and cause injury.
- 2) All persons engaged for fitting / repair of crawler chains or any other parts of machinery should be provided with suitable apron made of leather (or any other competent material) and helmets with transparent face shield which can prevent penetration of any projectile that may come out of the machinery or any of its part while fitting / repair.

**These are in addition to any related circular 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&C)

CC

- 1) Director (Technical) / Opn
- 2) Director (Technical) / P&P
- 3) GM, TS to CMD
- 4) GM (Mining) / Region Incharge, Region 1 & 3, Chief Manager (Mining) / Region Incharge,

Region 2. -- for review implementation and report to this office.

5) Area Safety Officer, All Areas --- For immediate implementation in all mines & units.

WESTERN COALFIELDS LIMITED  
Office of The Chairman Cum Managing Director  
Coal Estate, Nagpur

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No. WCL/CMD/

Date: 18. 06. 2009

**CIRCULAR**

To,  
The CGM / GM  
All Areas, WCL

**Subject :- Precautions to be taken to avoid dump slide in opencast mines.**

Dear sir,

There occurred an unfortunate fatal accident involving two persons in Sasti OC mine of Ballarpur Area on 04.06.2009, where while extracting floor coal for preparation of sump, a dragline OB dump slid. The volume of dump slide was around 1.5 to 2 lakh Cu. Mt.

A similar incident had also occurred in Jayant Colliery of NCL, where 5 persons died due to dump slide.

In view of the above, it is important that the following precautions should be taken immediately to avoid reoccurrence of such incidence,

- 1) An unextracted rib of 10m width of coal shall be left below loose dragline dump in between two cuts on the rise side to protect the dump base. At places, the thickness of such barrier shall be checked by putting bore holes.
- 2) The top black cotton soil should be dumped separately. Under no circumstances such materials should be placed at the base of the dragline dumps.
- 3) The interface layer i.e debris of crushed coal, fragmented rock, black cotton soil mixed with water should be cleared as far as possible from the de-coaled floor before dumping by dragline.
- 4) Slope monitoring is essential to detect any instability in advance to safe guard against possible failure. In case of any movement of OB dump face, the de-coaled floor near the toe of the dump may be declared as "Danger Zone".
- 5) An advance heading of 50 to 60m length should be developed to make a proper sump so that silt and water should not form the part of the base for dragline dump.
- 6) As far as possible proper bench should be formed in all OB dumps.

**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,

Chairman Cum Managing Director

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) All HODs

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

No. WCL/CGM(S&C)/

Date: 31. 07. 2008

**CIRCULAR**

To,  
The CGM / GM,  
All Areas, WCL

**Subject :- Fatal Accident due to Tipper.**

Dear sir,

There occurred an unfortunate fatal accident in one of the opencast mines of WCL, where trucks were standing in a queue (very close to each other) near the CHP for loading coal. The deceased truck driver was standing in front of his truck and was cleaning the windscreen. Suddenly, the truck standing ahead of his truck reversed hitting and fatally injuring the deceased truck driver standing behind.

During the preliminary, it was revealed that the reversed truck did not have any reverse horn or reverse light.

In view of the above, it is important that the following precautions should be taken immediately in all mines to avoid repetition of such incidence,

- 1) No truck or tipper should be allowed to enter the mine premises without reverse horn and reverse light. The reverse horn and reverse light of all trucks or tippers should be checked at the check post before allowing it to enter the mine premises.
- 2) The trucks or tippers standing in queue at the CHP or any other place in the mine premises should be instructed to keep a sufficient and safe distance between them.
- 3) Code of safe practices and traffic rules should be displayed prominently at all places of truck / tipper plying and parking in the form of pictorial hoardings. The same should also be circulated as pamphlets to the drivers from time to time at the check post.

**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&C)

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM/ TS to CMD
- 4) CME (Safety), Region 2, Dy. CME (Safety), Region 3 & SOM (Safety), Region 1

- 5) Area Safety Officer, All Areas --- For immediate circulation to all mines & monitoring.
- 6) All ISO Executives.

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

No. WCL/CGM(S&C)/

Date: 24. 05. 2008

**CIRCULAR**

To,  
The CGM / GM  
All Areas, WCL

**Subject :- Fatal Accident due to Roof Fall.**

Dear sir,

There occurred an unfortunate fatal accident recently in one of the underground mines of WCL, where a major roof fall measuring about 13.8 mts X 4.2 mts X 0.4 to 1.7 mts occurred in a dip gallery burring three persons who were drilling blast holes in the dip face.

The exact cause of this fatal accident is yet to be determined. However, during the prima - facie enquiry, it was observed that, two slips were running along this dip gallery and sufficient additional precautions should have been taken with respect to roof support due to existence of these slips.

In view of the above, it is important that the following precautions should be taken immediately in all underground mines to avoid repetition of such incidence,

- 1) Roof support should be done exactly as per the SSR framed on the basis of RMR of the district.
- 2) In places where disturbances in the roof exists, additional support should be erected in consultation with DGMS and past experience in the mine.
- 3) The workmanship quality of bolting and stitching should be maintained at the highest level and the same should be monitored in true spirit.
- 4) Verticality of roof bolts and full column grouting by cement capsules should be ensured.
- 5) Anchor testing of roof bolts should be done as per statute and the anchor testing machine should always be kept in good working condition and properly calibrated.

**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&C)



CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM/ TS to CMD
- 4) CME (Safety), Region 2, Dy. CME (Safety), Region 3 & SOM (Safety), Region 1
- 5) Area Safety Officer, All Areas --- For immediate circulation to all mines & monitoring.
- 6) All ISO Executives.

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

No. WCL/CGM(S&C)/

Date: 30. 04. 2008

**CIRCULAR**

To,  
The CGM / GM  
All Areas, WCL

**Subject :- Fatal Accident in OC mine**

Dear sir,

There occurred an unfortunate fatal accident recently in one of the opencast mines WCL, where a contractor worker was found buried under overburden dumped by an unidentified tipper of contractor in OB dump yard. The exact cause of this fatal accident is yet to be determined.

During the prima - facie enquiry, it was observed that,

- a) The deceased was an un-designated unauthorised contractor worker engaged in miscellaneous work.
- b) There was insufficient lighting in OB dump yard.
- c) No mining sirdar was engaged for supervision at the OB dump.
- d) Supervision was not strict and superficial.

In view of the above, it is important that the following precautions should be taken immediately to avoid repetition of such incidence,

- 1) No unauthorised person engaged by contractor should be allowed in active working zone of the mine.
- 2) Lighting in all parts of OC mine including Coal and OB dumps should be kept adequate and monitored.
- 3) Strict supervision should be ensured for all operations in the mine.
- 4) Mining sirdar should be engaged for supervision at contractual patch for ensuring safe working.

**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&C)

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM/ TS to CMD
- 4) CME (Safety), Region 2, Dy. CME (Safety), Region 3 & SOM (Safety), Region 1
- 5) Area Safety Officer, All Areas --- For immediate circulation to all mines & monitoring.
- 6) All ISO Executives.

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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No. WCL/CGM(S&C)/

Date: 22. 04. 2008

**CIRCULAR**

To,  
The CGM / GM  
All Areas, WCL

**Subject :- Accident due to Unauthorised riding in Tipper**

Dear sir,

There occurred an unfortunate fatal accident recently in one of the opencast mines WCL, where a contractor tipper was being driven up the gradient on a coal transport road. Suddenly, the tipper started roll back and could not be stopped and it could stop against berm. The tipper overturned to the side. One of the workers sitting inside the tipper in the process of jumping out, got pressed by the tilted tipper door and floor of the haul road resulting in fatal injuries.

During the prima - facie enquiry, it was observed that,

- a) The haul road gradient was not proper.
- b) There was unauthorised ridding on the tipper.
- c) The attendance of the contractor workers engaged in transportation of coal was not marked properly.

In view of the above, it is important that the following precautions should be taken immediately to avoid repetition of such incidence,

- 1) Haul road gradient should be kept proper.
- 2) There should be no unauthorised person riding in tipper / Dumper or any HEMM.
- 3) Code of safe practice with respect to transportation should be circulated to all, posted at conspicuous places and the implementation of the same should be monitored by all supervisors.
- 4) Road worthiness of all transportation vehicles should be periodically checked by a competent departmental supervisor authorised by manager and a record of the same should be kept.
- 5) It should be ensured that attendance of all workers going in the mine should be properly marked.

**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&C)

CC

- 1) Director (Technical) / Op
- 2) Director (Technical) / P&P
- 3) GM/ TS to CMD
- 4) CME (Safety), Region 2, Dy. CME (Safety), Region 3 & SOM (Safety), Region 1
- 5) Area Safety Officer, All Areas --- For immediate circulation to all mines & monitoring.
- 6) All ISO Executives.

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

No. WCL/CGM(S&C)/

Date: 18. 02. 2008

**CIRCULAR**

To,  
The CGM / GM  
All Areas, WCL

**Subject :- Accidents due to side fall**

Dear sir,

There occurred an unfortunate fatal accident recently in one of the mines of WCL, where a gallery was joined with another old gallery. During lifting coal from the joined face, coal fell from the side on to the basket of the loader, who fell on fallen coal resulting in fatal injuries.

In view of the above, it is important that the following precautions should be taken immediately to avoid repetition of such incidence,

- 1) In case of joining galleries, the gallery being joined to (old & unused gallery or otherwise) should be inspected by mining supervisors before blasting on the other side and the roof/side should be made safe by dressing and supporting as necessary.
- 2) After every blasting, the roof and sides should be dressed properly. The site of loading should be inspected by Mining Sardar before allowing the loaders to start loading.  
In case of joined / joining galleries, constant supervision should be done at the time of dressing and loading.
- 3) During charge handover / takeover by sirdars and overman of the shift, special mention should be made in writing of the status of galleries being joined or already joined in the shift .

**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&C)

CC

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

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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No. WCL/GM(S&C)/

Date: 30. 05. 2007

**CIRCULAR**

To,  
The CGM / GM  
All Areas, WCL

**Subject :- Repetitive accidents in the operation of haulages in underground mines.**

Dear sir,

There occurred four fatal accidents in the last two years in the mines of WCL, 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 in December 2006, 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.

A circular to this effect was issued by the undersigned in December 2006. Unfortunately, again a similar accident took place where a clipman was rerailing tubs without short circuiting the haulage signalling wire and the haulage was operated causing serious injury. There has been many repetitive accidents due to other causes too.

The repetitive nature of these accidents indicate that there is an urgent need to take serious steps for inculcating safety awareness amongst the workmen so as to prevent wrong practices.

It is important that the following steps should be taken immediately taken to increase safety awareness amongst the workmen,

1) Code of Safe Practice :

- a) There should be a comprehensive code of practice framed for all operations, specific for each operation and mine.
- b) This code of practices should be widely circulated in local languages and prominently displayed at all conspicuous points and places.
- c) It should be ensured by periodic checks / inspections that the procedure of work is done strictly as per the code of practices.
- d) Strict punitive action should be taken against persons found violating these code of practices.

( PTO )

- 2) The Safety Committee meetings should be held regularly and the details of all recent accidents of the company should be discussed thread bare. It should be ensured that steps to be taken to prevent these accidents are finalised in these meetings and the implementation status is discussed in the subsequent meetings.
- 3) Safety talks and safety oath taking in the beginning of each shift should be made compulsory. The same should be randomly checked by senior mine officials.
- 4) Safety posters and slogans should be displayed liberally at all important places of the mine.
- 5) The institution of Workmen Inspector should be strengthened and the observations made by the workmen Inspectors should be given utmost importance.
- 6) Back shift inspections by senior mine officials should be done frequently and in true spirit.
- 7) Mine level training and re-training should be given to workmen and staff in the use of safety appliances, flame safety lamp and other gas detecting equipments. The proper use of the same should be monitored by mine officials during daily inspections.

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

A copy of accident analysis and synopsis of fatal / serious accidents occurred during the period January to May 2007 is enclosed

This is for your kind information and necessary action.

Yours faithfully,

Enclo. : aa

General Manager (S&C)

CC

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



WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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No. WCL/GM(S&C)/

Date: 25. 04. 2007

**CIRCULAR**

To,  
The CGMs / GMs  
All Areas, WCL

**Subject :- Precautions to be taken in operation of Diesel Bowser in Opencast mines.**

Dear sir,

There occurred a fatal accident in one of the mine of WCL, where a workman was crushed by a run away diesel bowser. During the preliminary enquiry of this accidents, it was revealed that non availability of hand brake, non application of parking brake and negligence on part of the bowser driver was responsible for the occurrence. In view of the above, it is important that the operation of Diesel Bowsers in the opencast mines of WCL are made safe so as to prevent recurrence of the same.

The following important steps with respect to the operation of diesel bowsers in Opencast mines should be taken,

- 1) There should be provided a hand brake in all diesel bowsers in addition to the parking brake provided by the manufacturer. This hand brake and parking brake should be kept operational and should be applied whenever the vehicle is stopped.
- 2) If the driver gets down the vehicle, he should immediately place stopper blocks in front and back of the rear wheel.
- 3) The diesel bowsers should be parked at a safe place with proper gradient while filling diesel or when the driver has to get down the vehicle for any reason. While parking, sufficient precautions should be taken to avoid run away of the vehicle.
- 4) Code of Safe Practice should be formulated and implemented for operation of diesel bowsers. The same should be given wide publicity to bowser drivers and attendents by posters, displays, circulars, safety talks, etc.
- 5) Do's and Dont's for bowser operation should be pasted at a prominent place inside the cabin of the vehicle. The same should also be circulated to all concerned operators in the form of laminated / durable cards.
- 6) Unauthorised persons should be strictly prevented from driving or riding in diesel bowsers.

( PTO )

- 7) Diesel Browsers 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, hand brake, Parking brakes, etc.
  - c) Regular and proper system of checking and its recording in log book.
  - d) Monitoring by authorised officials.

**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) Director (Technical) / Op
- 2) CGM, TS to CMD
- 3) GM (S&C), WCL Hq.
- 4) CME (Safety), Region 3; Dy.CME(Safety), Region-2 & SOM(Safety), Region-1
- 5) Area Safety Officer, All Areas

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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No. WCL/GM(S&C)/

Date: 30. 03. 2007

**CIRCULAR**

To,  
The CGM / GM  
All Areas, WCL

**Subject :- Precautions to be taken in operations in Opencast mines.**

Dear sir,

There occurred four fatal accidents involving HEMM in the year 2007 till date. In all the four accidents, it was revealed that negligence and violation of the code of practice was responsible for the occurrences. In view of the above, it is important that the operation of HEMMs and ancillary equipments in the opencast mines of WCL are made safe so as to prevent recurrence of the same.

The following important steps with respect to the operations in Opencast mines should be taken,

- 1) **Code of Safe Practice** should be formulated and implemented for all operations and places in Opencast mines. The same should be given wide publicity by posters, displays, circulars, mine level inter-shift safety drives, safety talks, etc.
- 2) **Do's and Dont's** for operation of all types of machines should be pasted inside the cabins of the respective machines. The same should also be circulated to all concerned operators in the form of laminated / durable cards.
- 3) **Supervision** level of Mining, Excavation and E&M in all the three shifts should be strengthened both quantitative and qualitative.
- 4) **Unauthorised / idle persons** should be strictly prevented from the active working zone of HEMMs.
- 5) **Rest shelters** with drinking water and lighting arrangement should be provided at convenient and safe places so that idle workmen do not sit or loiter in dangerous places of the mine. Strict punitive action should be taken against persons found loitering in the active working zone of HEMM. A safe system of providing drinking water for persons during the shift should be established and enforced.
- 6) **Effective incentive system** should be formulated 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 , negligence, reckless driving and misadventure.

( PTO )

- 7) **Movement of HEMM**, other vehicles and pedestrians should be segregated.
- 8) **Fluorescent** jackets and helmets should be provided and used by all workmen and supervisors who have to move in the active working zone of the HEMM's and in isolated places.
- 9) **Machine-wise Log books** should be introduced and kept in all machines for entry of breakdowns, repairs and trips by the operators of each shift. The same should be counter signed by maintenance personnel / tripman as per the case.
- 10) **Traffic Rules** for HEMMs and other vehicles should be formulated, given wide publicity and implemented in true spirit.
- 11) **Restricting speed limits** for HEMMs should be fixed at various vulnerable places and strict implementation of the same should be done.
- 12) **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.

**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,

General Manager (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
- 5) Area Safety Officer, All Areas

WESTERN COALFIELDS LIMITED  
Office of the Director Technical (P&P)  
Coal Estate, Nagpur

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No. WCL/

Date: 12. 03. 2007

**CIRCULAR**

To,  
CGMs / GMs  
All Areas  
WCL

**Subject :- DUTIES AND RESPONSIBILITIES OF MINE WORKMEN.**

Dear sir,

It is observed in recent times that majority of the fatal and serious accidents occurred due to negligence on part of the deceased workmen and his co-workers. This rising trend of negligence and ignorance of the duties and responsibilities on part of the workmen is alarming and needs to be immediately stopped.

The safety propaganda through regular safety talks, posters, slogans, circulation of code of safe practices, sub area level safety conferences etc should be further strengthened and made more effective.

In addition to the above, it is felt that all workmen should be made aware of their duties and responsibilities. The duties of various categories of workmen as given in the statute should be translated in Hindi and circulated to all concerned workmen. The adherence to these duties should be regularly monitored by the members of the Mine Safety Committee and corrective action taken against persons violating the same. Copies of duties and responsibilities of some categories of workmen as given in the statute is enclosed.

This is for your kind information and immediate action.

Yours faithfully,

Director Technical (P&P)

CC

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

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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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.

( PTO )

- 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 Technical (P&P)  
Coal Estate, Nagpur

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No. WCL/HOD(S&C)/

Date: 12. 09. 2006

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

**Subject :- Precautions to be taken in haulage roadways of Underground mines.**

Dear sir,

A fatal accident occurred in one of the underground mines of WCL, due to runover by haulage tub. In view of the above accident, it is important that the following important precautions are taken so as to prevent recurrence of similar accident,

- 1) No workman engaged in light duty / physically weak should be given work near frequent movement of tubs.
- 2) The man holes along the haulage roadway should be made of proper specification and kept clean.
- 3) Either side of the haulage track should be kept levelled and clean of debris obstructing the movement of workmen along the track.
- 4) The coal spilled due to derailment / overloading of tubs should be immediately cleaned from the haulage track and its sides.

**These are in addition to the earlier circular number WCL/CGM(S&R)/8583-608 , dated 15.12.2005 on the same subject and other related statutory provisions, which should also be strictly implemented .**

This is for your kind information and immediate action.

Yours faithfully,

Director Technical (P&P)

CC

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

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

**FAX MESSAGE**

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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)

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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

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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 advice 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

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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

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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 stuck the nearby shed girder, thus he was injured in head which lead 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

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

Date: 30. 05. 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

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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

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

Date: 29. 03. 2006

**CIRCULAR**

All CGM / GM, WCL Areas

**Subject :- Precautions to be taken while working at a height / equipment.**

Dear sir,

There occurred a fatal accident in one of the mines of WCL, where the deceased fell down from the pay-loader on which he had climbed for repair works. In this accident and many other similar accidents in the past, it was revealed that sheer negligence and lack of precautionary measures was responsible. In view of the above, it is important that working at a height should be made safe so as to prevent recurrence of similar accidents and loss of precious lives.

It is therefore important that the following precautions while working at a height should be taken,

- 1) All works involving persons working at a height should be planned in advance and taken up in the presence of supervisor.
- 2) The person working at a height should always be secured with a safety belt. The safety belt should also be used while climbing up and coming down.
- 3) Working on a boom of any machine should be done by keeping the boom in a lowered position. However, If a person is required to work on a boom of a machine while keeping it in lifted position, it should be secured with a lock pin of proper specification to prevent the boom from coming down or intermittent jerks due to faulty hydraulic system.
- 4) It should be ensured that the person working at a height should have an adequate foothold which is sufficiently competent to take the load of the person and free from slippery substances / wet surface.
- 5) A fool proof system should be established and enforced to ensure that the maintenance personnel and others present at the ground to remain at a safe distance away from the place of work at a height.
- 6) 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. In case of working at a height having electrical installation, other related precautions should also be taken.**

This is for your kind information and necessary action.

Yours faithfully,

Director Technical ( P&P )

Distribution :

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

WESTERN COALFIELDS LIMITED  
Safety & Conservation Department  
Coal Estate, Nagpur

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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.

( PT0 )



- 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

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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.

( PTO )

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

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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.

( PTO )

-- 2 --

- 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

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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.

(Coud. in page 2 )

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

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.