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खान सुरक्षा महानिदेशालय / Directorate General of Mines Safety
गाजियाबाद क्षेत्र गाजियाबाद / Ghaziabad Region, Ghaziabad

कमरा संख्या 101 - 102, प्रथम तल ब्लॉक - बी
बी., सी.ओ. कॉम्प्लेक्स II, हापुड रोड गाजियाबाद-201002
संख्या: S29024/GR/HAR/Bhiwani/153 /Per दिनांक /2015

प्रेषक
एम. सत्यमूर्ति
खान सुरक्षा निदेशक,
गाजियाबाद क्षेत्र, गाजियाबाद।

सेवा में,
श्री अभिषेक कुमार, नामांकीत स्वामी
मैसर्स एमएनके - जेपी (MSK-JV)
अटेला कलान बटोन माइन
ग्राम अटेला कलान पो अटेला खुर्द
तहसील चरखी दादरी,
जिला भीयानी (हरियाणा)

विषय धत्वीक खान विनियम, 1961 के विनियम 106(2)(बी) के अंतर्गत मैसर्स एमएनके - जेपी की अटेला कलान बटोन माइन में डीप होल ड्रिलिंग और ब्लास्टिंग के साथ भारी यंत्रों के प्रयोग की अनुमति।

महोदय

कृपया उपरोक्त विषय पर अपने प्रबंधक के दिनांक 01.07.15 तथा 06.07.15 के पत्रांक MSK/DGMS/15-16/11&12 का संदर्भ लें और उसके साथ संलग्न दिनांक 23.06.15 का प्लान सं. RKS/AKSM/MSK/BWN/SUR/01/24/15 का संदर्भ लें। आपके आवेदन में दिए गए तथ्यों के आलोक में मामले पर विचार किया गया।

मुख्य खान निरीक्षक (खान सुरक्षा महानिदेशक की तरह भी पदनामित) को धत्वीक खान विनियम, 1961 के विनियम 106(2)(बी) के अंतर्गत दिए गए अधिकारों और मुख्य खान निरीक्षक (खान सुरक्षा महानिदेशक की तरह भी पदनामित) द्वारा खान अधिनियम, 1952 की धारा 6(1) के अंतर्गत मुझे दिए गए प्राधिकरण के तहत मैं मैसर्स एमएनके - जेपी की हरियाणा राज्य में भीयानी जिले के चरखी दादरी तहसील में अटेला कलान गोंड के पास में अपरिधत अटेला कलान बटोन माइन में डीप होल ड्रिलिंग और ब्लास्टिंग के साथ भारी यंत्रों के प्रयोग की की अनुमति देता हूँ।

1.0 सामान्य:

इस संशर्त अनुमति में जहां भी अन्य रूप में प्रदान किया गया है उसके अतिरिक्त धत्वीक खान विनियम, 1961 के सभी विनियमों का कठोरता से पालन किया जाएगा।

2.1 Height and Width of Benches

- 2.1.1 The height of benches in overburden, ore body or other rock formation shall not be more than 9.0 m or maximum digging height of the machine used for digging, excavation or removal, whichever is less.
- 2.1.2 Width of any bench shall not be less than -
- (a) width of the widest machine plying on the bench plus 2 m, or
 - (b) if dumpers ply on the bench, 3 times the width of the dumper, or
 - (c) the height of the bench, whichever is more.
- 2.1.3 When persons are employed within 5 m of the working face, adequate precautions shall be taken to ensure their safety by dressing the sides of the bench.

2.2 Roads for Trucks and Dumpers etc:

- 2.2.1 All roads for trucks, dumpers or other mobile machinery shall be maintained in good condition.
- 2.2.2 Wherever practicable, all roads from the opencast workings shall be arranged to provide one-way traffic.
- 2.2.3 No road shall be of width less than three times plus 5m width of the largest vehicle plying on road.
- 2.2.4 All corner and bends shall be made in such a way that operator of vehicle have clear view of distance of not less than 3 times the braking distance of largest HEMM working at 40Km/hour.
- 2.2.5 Where it is not possible to ensure a visibility for a distance as mention in clause (2.2.4), there shall be provided with two roads of width not less than 2 times plus 3m of largest vehicle plying on the road with a strong road divider at centre with adequate lighting and reflector along the divider.
- 2.2.6 Where any road existing above level of surrounding area it shall be provided with strong parapet wall/embankment of following dimensions:
- (a) Width at top-not less than 1 m.
 - (a) Width at bottom-not less than 2.5 m.
 - (b) The height not less than the diameter of tyre of largest vehicle plying on road. It may be noted that just dumping of mud of OB shall not be treated as strong parapet wall.
- 2.2.7 No road shall have gradient more than 1 in 16.

3.0 Supervision :

- 3.1 A person possessing First Class Mine Manager's Certificate of competency under Regulation MMR, 1961 shall be appointed as the manager of the mine to look after HEMM operation. This permission shall stand revoked as soon as the qualified manager ceases to work at the mine. Use of HEMM shall be suspended in the absence of manager with aforesaid qualification.
- 3.1 During every production shift, the opencast workings shall be placed under the charge of an Assistant Manager and during maintenance shift, the working shall be placed under the charge of a Foreman, who shall be responsible to see that all the regulations and orders made there under are strictly complied with. He shall also supervise transport and loading being done by the contractor.
- 3.2 The deep hole drilling and blasting shall be carried out under the personal supervision of the Assistant Manager. Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in register kept for the purpose for each blast.
- 3.3 Manager shall in particular –
- (a) make frequent inspections for evidence of slides or of material that may slide or roll from the high wall (including the face and sides) or spoil-bank;
 - (b) not allow any person to work under overhanging ledges or where there is evidence of slides, until such danger has been removed;
 - (c) ensure that every person engaged in dressing operations on high walls/sides is provided with, and uses, a safety belt of a type approved by the Chief Inspector;
 - (d) ensure that all loose material is removed from high wall/side before persons are engaged there; and
 - (e) ensure that parapet walls along truck roads are properly maintained.

4.0 Maintenance of Machines:

- 4.1 If the engineer, mechanical foreman or other competent person making an inspection notices any defect in any machinery, the said machinery shall not be used until the defect has been remedied.
- 4.2 Any defect in machinery reported by its operator shall be promptly attended to.
- 4.3 Any machine found to be in an unsafe operating condition shall be tagged at the operator's position 'OUT OF SERVICE DO NOT USE' and its use shall be prohibited until the unsafe condition has corrected.
- 4.4 All repairs to a machine shall be done at a location which will provide a safe place for the persons engaged on repairs.

- 4.5 Except for testing, trial or adjustment which must necessarily be done while the machine is in motion, every machine shall be shut down and positive means taken to prevent its operation while any repair or manual lubrication is being done.
- 4.6 Power shall be disconnected when repairs are made to any electric machine.
- 4.7 Any machinery, equipment or part thereof which is suspended or held apart by use of slings, hoists or jacks shall be substantially blocked or cribbed before men are permitted to work underneath or between such machinery, equipment or part thereof.
- 4.8 All repairs of a machinery or vehicle shall be done at properly laid repair sheds and workshops so as to ensure due protection to work persons deployed at those places from the movement of heavy earth moving machinery.
- 4.9 Every place of drilling and earth moving machinery or equipment and every truck, dumper etc. shall be maintained in good and safe working condition.
- 4.10 *Design aspects of equipments:*
- 4.10.1 Every machinery or vehicle shall be provided with efficient warning devices and rear lights and efficient brakes.
- 4.10.2 Every shovel or dragline shall be so designed as to afford the operator clear and uninterrupted vision all around and shall be provided with portable lamp for emergency, suitable portable fire extinguishers and retracting ladder.
- 4.10.3 The operator's cabin of heavy earth moving machinery shall be well designed and substantially built so as to ensure adequate protection to the operator against heat, dust, noise etc. and at the same time provided adequate safety to the operator in the event of overturning of heavy earth moving machinery. A seat belt for the safety of the operator shall be provided.
- 4.11 *Schedule of maintenance:*
- 4.11.1 The code of instructions furnished by the manufacturers in the matter of maintenance of various machinery and vehicles and preventive maintenance schedules for each type of machinery and vehicle shall be strictly followed.
- 4.11.2 Every machine and vehicle shall be allocated at least one day in every week for maintenance. Before the machine or vehicle is sent out for work after maintenance, it shall be thoroughly inspected by the Engineer or mechanical foreman or other competent person, appointed by the manager in writing, who shall satisfy himself that the machine or vehicle is mechanically sound and in efficient working order.

4.11.3 A report of every inspection made under clause (4.11.2) shall be recorded in a bound paged book kept for the purpose, and shall be signed and dated by the person making the inspection.

4.11.4 Every machine in use shall be thoroughly inspected once at least in every 24 hours by a competent person. Any damaged or worn out parts shall be replaced immediately.

4.11.5 A report of every inspection made under clause (4.11.4) shall be recorded in a bound paged book kept for the purpose and shall be signed and dated by person making the inspection.

4.12 *Shift examination of machinery and vehicle:*

4.12.1 At the commencement of every shift, the engineer or mechanic or foreman or other authorized competent persons shall personally inspect and test every machine and vehicle paying special attention to the following details:

- (a) that the brakes and the horn or other warning devices are in working order;
- (b) if the vehicle or machine is required to work after day light hours that the lights are in working order.

4.12.2 He shall not permit the vehicle or machine to be taken out for work nor shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

4.12.3 He shall also maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

5.0 Safety features of dumper, Excavator, dozer and drill (Cir 9/2008)

5.1.1 Dumper:

5.1.1.1 The following safety feature shall be provided in dumper:

- (a) Mechanical steering locking to prevent untoward movement of steering wheel and tyre while work persons working below the cabin while engine is running.
- (b) Blind spot mirror apart from rear view mirror to enable operator to have clear visibility of blind spot in and around dumpers.
- (c) Mechanical type Anti collision device to avoid head to tail collision on haul road such as tail gate, bumper extension or any other strong device.
- (d) Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conducts where cable / wire are passed shall be fire resistant.
- (e) Seat belt for operator.

- (f) The maximum speed of vehicle shall be restricted to 30 km/hour by blocking higher gear or any other automatic means.
- (g) Proper shaft guard.
- (h) Proximity working device.

5.1.2 Excavators:

5.1.2.1 The following safety feature shall be provided in excavator:

- (a) All functions cut off switch.
- (b) Swing Motor Brake.
- (c) Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of Fire. All the sleeves and conducts where cable/wire is passed shall be fire resistant.
- (d) Turbo charger Guard.
- (e) Seat belt.
- (f) Vent valve on top of hydraulic tank should be able to be removed without any tool.
- (g) A baffle plate between cold zone and hot zone.
- (h) Provision for limiting of hydraulic cylinders- Stoppers

5.1.3 Drills:

5.1.3.1 The following safety feature shall be provided in drills:

- (a) Approved type of dust prevention or suppression system.
- (b) Each moving parts of the machinery shall be guarded/fenced and also ensure its effectiveness all the time.
- (c) Emergency push button in
 - (i) Operator's cabin.
 - (ii) Main frame.
 - (iii) Propeller pendent.
 - (iv) Rear end.
- (d) Tripping device to trip the field switch.
- (e) Thermostat motor protection relay in winding temperature and other related parts.
- (f) Explosive vent in transformer.
- (g) Propel interlock (an electric interlock between drilling and propeller operation).
- (h) High air discharge temperature switch.
- (i) Low lube oil pressure switch.
- (j) Oil stop valve (electric solenoid valve in compressor lubrication line).
- (k) No bump circuit.
- (l) Tower lock and lock check valve.
- (m) Propel joystick-spring loaded type to return to neutral (dead man safety).
- (n) Disc-brake and brake valve and its testing parameters.
- (o) Lock check valve for preventing creeping in drill.
- (p) Seat belt.

- (q) Fire resistant hydraulic hoses and wiring near hot zone.
- (r) Turbo charger guard.
- (s) Cabin for the operator

5.1.4 **Dozers:**

5.1.4.1 The following safety feature shall be provided in dozers:

- (a) Roll over protection.
- (b) Turbo charger guard.
- (c) Fire resistant hydraulic hoses and wiring near hot zone.
- (d) Seat belt.

5.1.5 **General:**

5.1.5.1 The approved type of audio visual alarm shall be provided in all equipments.

5.1.5.2 The approved type of fire suppression system shall be provided in all equipments.

5.1.5.3 The stability test of HEMM shall be carried out at least once in year and after every major over haul by an independent agency.

5.1.5.4 The crane and overhead crane shall be subject to proof load test and NDT test once in a year from a competent authority.

5.1.5.5 The pressure vessel receiver are subjected to hydraulic and NDT test and shall be carried out by a competent authority.

5.1.5.6 In case of any defect in equipment such as brake, steering and safety device the equipment shall be immediately taken out of use and a record shall be kept.

5.1.5.7 The code of practice for installation operation and maintenance of all equipment shall be prepared and implemented before putting the equipment to use in mine.

5.1.5.8 The safety feature recommended in equipment shall be a part of notice inviting tender for new procurement and the design and drawing shall be obtained from OEM for fitting the same in old equipment.

5.1.5.9 The layout of the workshop shall be required as per DG's Circular No. 8 of 2003.

6.0 **Precautions while Drilling:**

6.1 The position of every deep hole to be drilled shall be distinctly marked by the mine foremen so as to be readily seen by the drillers.

6.2 No person shall be permitted to remain within a radius of 20 m or within 60 m on the same bench where charging of holes with explosives is being carried out.

7.0 Transport of Explosives:

- 7.1.1 Where explosives are transported in bulk for deep hole blasting, the following precautions shall be taken:
- 7.1.1.1 Transport of explosives from the magazine to the priming station or the site of blasting shall not be done except in original wooden or cardboard packing cases. The quantity of explosive transported at one time to the site of blasting shall not exceed the actual quantity required for use in one round of shots. Explosives shall be transported to the site of blasting not more than 90 minutes before the commencement of charging of the holes.
- 7.1.1.2 No mechanically propelled vehicle shall be used for the transport of explosives unless it is of a type approved in writing by the Chief Inspector. Provided that a Jeep or Land Rover may be used for the transport of detonators from magazines to 'priming stations' subject to the following conditions:
- not more than 200 detonators are transported in a vehicle at a time;
 - the detonators are packed suitably in a wooden box;
 - the wooden box containing detonators is placed inside an outer metal case of construction approved by the Chief Inspector;
 - the outer metal case shall be suitably bolted to the floor of the vehicle or otherwise fixed in a wooden frame so that the container does not move about while the vehicle is in motion; and
 - no person shall ride on the rear portion of the vehicle.
- 7.1.1.3 Every vehicle used for transportation of explosive shall be marked or placarded on both sides and ends with the word 'Explosives' in white letters not less than 15 cm high on a red background.
- 7.1.2 Every mechanically propelled vehicle transporting explosives shall be provided with not less than two fire extinguishers (one of carbon tetrachloride type for petroleum fire and the other of carbon dioxide under pressure type for electrical fire) suitably placed for convenient use.
- 7.1.2.1 The vehicle used for transport of explosives shall not be overloaded and in no case shall the explosive cases be piled higher than the sides of its body.
- 7.1.2.2 Explosives and detonators shall not be transported in the same vehicle, at the same time.
- 7.1.2.3 No persons other than the driver and his helper shall ride on a mechanically propelled vehicle used for transport of explosives.
- 7.1.2.4 A vehicle loaded with explosive shall not be left unattended.
- 7.1.2.5 Engine of a vehicle transporting explosives shall be stopped and the brakes set securely before it is unloaded or left standing.

- 7.1.2.6 A vehicle transporting explosives shall not be driven at a speed exceeding 25 kilometers per hour.
- 7.1.2.7 A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.
- 7.1.2.8 A vehicle transporting explosives shall not be refueled except in emergencies and only when its engine is stopped and other precautions taken to prevent accidents.
- 7.1.2.9 No trailer shall be attached to a vehicle transporting explosives.
- 7.1.3 Every vehicle used for the transport of explosives shall be carefully inspected once in every 24 hours by a competent person to ensure that:
- (a) fire extinguishers are filled and in place;
 - (b) the electric wiring is well-insulated and firmly secured;
 - (c) the chassis, engine and body are clean and free from surplus oil and grease;
 - (d) the fuel tank and feed lines are not leaking; and
 - (e) lights, brakes and steering mechanism are in good working order.
- 7.1.4 Report of every inspection made under clause (7.3) shall be signed and dated by competent person making the inspection.
- 7.1.5 All operations connected with transport of explosives shall be conducted under the personal supervision of a foreman solely placed in charge of blasting operations at the mine.
- 7.1.6 The blaster shall personally search every person engaged in the transport and use of explosives and shall satisfy himself that no person so engaged has in his possession any cigarette, 'biri' or other smoking apparatus, or any match or any other apparatus of any kind capable of producing a light, flame or spark.

8.0 Precaution during Firing:

- 8.1.1** Shots shall not be fired except during hours of day-light or until adequate artificial light is provided. All holes charged on any one day shall be fired on the same day.
- 8.1.2** As far as practicable, shot firing shall be carried out either between shifts or during the rest interval, or at the end of work for the day.
- 8.1.3** During the approach and progress of an electric storm, the following precautions shall be taken:
- (a) no explosive, particularly detonators, shall be handled;

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- 8.1.2 As far as practicable, shot firing shall be carried out either between shifts or during the rest interval, or at the end of work for the day.
- 8.1.3 During the approach and progress of an electric storm, the following precautions shall be taken:
- (a) no explosive, particularly detonators, shall be handled;

- (b) if charging operations have been commenced, the work shall be discontinued until the storm has passed;
- (c) if the blast is to be fired electrically, all exposed wires shall be coiled up and if possible placed in the mouth of the holes, or kept covered by something other than a metal plate;
- (d) all wires shall be removed from contact with the steel rails or a haulage track so as to prevent the charge being exploded prematurely by a local strike of the lightning.

8.1.4 The danger zone shall be distinctly demarcated (by means of red flags properly arranged and supported) before firing of holes is to commence.

8.1.5 Before firing, a siren installed for the purpose shall be blown three times for one minute each at intervals of one minute; and no shots shall be fired unless the blasting foreman with assistance of sufficient number of persons appointed in writing by the manager for the purpose has ensured that all persons have left the danger zone or have taken adequate shelter.

8.1.6 No shot shall be fired when there is traffic on any road or railway track within the danger zone.

9.0 Operation of machines:

9.1 a) Every heavy earth moving machinery (and Hydraulic Excavators) shall be under the charge of a competent person (herein called the 'operator') authorised in writing by the Manager.

b) Operator/driver of each HEMM shall be selected from amongst persons possessing requisite qualifications. The selection process shall comprise a test to check driving/operating skill, aptitude, health and oral examination of the candidate by a competent selection committee. The selected person shall be trained and their competency shall be evaluated by a board constituted by the mining company.

c) All operators of HEMM shall undergo regular checks to test their driving/operating skill, knowledge and health once in every five years.

9.2 To prevent unauthorized driving, a system shall be evolved whereby the ignition key and /or cabin key always remain with the driver/operator or with specifically designated competent person.

9.3 No person other than the operator or his helper if any or the manager or any person so authorized in writing by the manager shall ride on a shovel or dragline.

9.4 No person shall be permitted to ride in the bucket of a shovel.

9.5 No shovel or dragline shall be operated in a position where any part of the machine, suspended loads or lines are brought closer than 3 meters to expose

high voltage lines, unless current has been cut off and the line de-energized. Notice of this requirement shall be posted at the operator's position.

9.6 Electrical cables, if any, shall be laid in such a manner that they are not endangered either by falling rocks or by a mobile equipment.

9.7 Shovel bucket shall be pulled out of the bank as soon as it is full.

9.8 When not in operation, the bucket shall be pulled out of the bank as soon as it is full.

9.9 When being operated in soft or unstable ground, every shovel (and dragline) shall be supported by heavy planks or poles so as to distribute the load of the machine over larger area and to prevent any danger of the shovel (or dragline) over-turning.

9.10 When not in use, the shovel or dragline shall be moved to and stood on stable ground.

9.11 If more than one stripping machine is in use in any area, either on the same bench or on different benches, the machines shall be so spaced that there is no danger or accident from flying or falling objects etc. from one machine to the other.

10.0 **Duties of Mechanics, Fitters and Engineers:**

10.1 At the commencement of every shift, he shall personally inspect and test every machine and vehicle paying special attention to the following details:

- (a) that the brakes and the warning devices are in working order;
- (b) if the vehicle or machine is required to work after day-light hours, that the lights are in working order.

10.2 He shall not permit the vehicle or machine to be taken out for work nor shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

10.3 The mechanic shall maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

11.0 **ADDITIONAL DUTIES OF ENGINEERS PLACED IN CHARGE OF MACHINES AND EQUIPMENTS IN OPENCAST WORKINGS:**

11.1 During each shift the machines and equipments at work shall be placed under the charge of qualified and experienced engineer to effect inspection, examination safe operations and maintenance of the machines, equipments and accessories. During his shift the engineer/engineers shall;

- (a) inspect, examine machines, equipments and accessories and satisfy himself that they are in sound and safe working order;
- (b) not allow any machine, equipment to be used, if it is found defective;
- (c) ensure that every machine, equipment, accessory used is in a safe and efficient order;
- (d) ensure that each operation, activity is carried on in safe and efficient manner.

12.0 **Operation of Truck, Dumpers and other Vehicles:**

- 12.1 No person shall be permitted to ride on the running board of a truck or dumper.
- 12.2 As far as possible, loaded trucks or dumpers shall not be reversed on gradient.
- 12.3 Sufficient stop blocks shall be provided at every tipping point and these shall be used on every occasion the material is dumped from the truck, dumper, or other such vehicle.
- 12.4 Standard Traffic Rules shall be adopted and followed during movement of all trucks and dumpers. They shall be prominently displayed at the relevant places in the opencast working and truck/dumper roads.
- 12.5 No person shall be permitted to work on the chassis of truck or dumper with the body in a raised position until the truck or dumper body has been securely blocked in position. The mechanical hoist mechanism alone shall not be depended upon to hold the body of the truck or dumper in raised position.
- 12.6 No unauthorized person shall be permitted to enter or remain in any dumping yard or turning point.
- 12.7 When not in use every truck or dumper shall be moved to and stood on proper parking places.
- 12.8 Every dumper/tipper/truck shall be provided with suitable fire extinguishers preferably automatic and suitably placed for operation/convenient use.
- 12.9 Every dumper/tipper/truck shall be provided with automatically operating audio-visual reversing alarm, which shall always be kept in working order.
- 13.0 **Duties of Machine operators:**
- 13.1 At the commencement of every shift, the operator shall also personally inspect and test the machine, paying special attention to the following details:
 - (i) That brakes and every warning device are in working order; and
 - (ii) If the machine is required to work after day-light hours, that lights are in working order.
 - (iii) He shall not take out the machine for work nor shall he operate the machine unless he is satisfied that it is mechanically sound and in efficient working order.
- 13.2 The operator shall not operate the machine when persons are in such

- proximity as to be endangered.
- 13.3 He shall not swing the bucket of shovel over passing haulage units. While the trucks/dumpers are being loaded, he shall swing over the body of the truck/dumper and not over the cab, unless the cab is protected by a substantially strong cover.
- 13.4 The operator shall not allow any unauthorized person to ride on the machine.
- 14.0 **Duties of Truck / Dumper Operators:**
- 14.1 No person shall be permitted to ride on the running board of a truck or dumper.
- 14.2 As far as possible loaded trucks or dumper shall not be reversed on gradient.
- 14.3 Sufficient stop blocks shall be provided at every tipping point and these shall be used on every occasion material is dumped from the truck, dumper or other such vehicle.
- 14.4 Suitable "Code of Traffic Rules" shall be framed by the Mines Manager and enforced strictly for movement of all trucks, tippers and dumpers in the mine. A copy of the traffic rules shall be submitted to this Directorate for record. They shall be prominently displayed at the relevant places in the opencast workings and truck/dumper roads.
- 14.5 He shall not drive too fast, shall avoid distractions, and shall drive defensively.
- 14.6 He shall not attempt to overtake another vehicle unless he can see clearly far enough ahead to be sure that he can pass it safely. He shall also sound the audible warning signal before overtaking.
- 14.7 When approaching a stripping equipment, the driver of the truck, dumper shall sound the audible warning signal and shall not attempt to pass the stripping equipment until he has received proper audible signal in reply.
- 14.8 Before crossing a road or railway line, he shall reduce his speed, look in both directions along the road or line and shall proceed across the road or line only if it is safe to do so.
- 14.9 The driver shall sound the audible warning signal while approaching 'blind' corner or any other point from where persons may walk in front unexpectedly.
- 14.10 The driver shall not operate the truck or dumper in reverse unless he has a clear view of the area behind the vehicle or he has the assistance of a 'spotter' duly authorized in writing for the purpose by the manager. He shall give an audible warning signal before reversing a truck or dumper.
- 14.11 The driver shall be sure of clearance before driving through tunnels, archways, plant structures etc.
- 14.12 The driver shall see that the vehicle is not overloaded and that the material is not loaded in a truck or dumper so as to project horizontally beyond the sides of its body and that any material projecting beyond the front or rear is indicated by a red flag during the day and by red light after day light hours.
- 14.13 The driver shall not allow any unauthorized persons to ride on the vehicle. He shall also not allow more than the authorized number of persons to ride on the vehicle.
- 15.0 **Miscellaneous:**

- 15.1 Trucks, tippers and other heavy vehicles, not belonging to management shall not be allowed in the mine premises without a valid pass issued by the competent authority of the mine. Before the pass is issued the mine engineer/competent person shall check the roadworthiness of such vehicle. In order to check the entry of such vehicle in the mine premises, properly manned check gate shall be provided at the mine entrance where the record of entry & exit of each vehicle shall be maintained. At the check gate the license of the drivers shall also be checked for eliminating the possibility of unlicensed persons driving the vehicle.
- 15.1.1 Persons engaged in surface operation and in particular, the contractor's workers shall be provided closer and competent supervision.
- 15.1.2 All persons engaged at any work within the mine premises through the contractors shall be provided relevant training and other job related briefings and that the drivers of the vehicle belonging to contractors entering the mine premises have additionally been explained the salient provisions of "Traffic Rules".
- 15.1.3 Each and every operation, including the operation carried out through contractor's worker or by outside agency, shall be placed under the charge of a competent supervisor, duly appointed and authorized by the manager.
- 15.2 Manager shall frame code of practices for each operation and copy of it shall be handed over to all concerned. It shall be the duty of all statutory persons to enforce the code of practices so framed.
- 15.3 No manual workers shall be employed on any bench where HEMM is deployed or on the next lower bench. Manual workers shall be employed only after withdrawal of HEMM and only at the places where benches conform to the requirement of Regulation 106(1), 106(4) and 106(5) of the Metalliferous Mines Regulations, 1961.
- 15.4 No blasting shall be conducted within 300 m of building/infrastructure not belonging to the owner. The distance shall be kept marked in the field as well as on the plan mentioned under Regulation 61(1)(a) of the MMR, 1961.
- 15.5 Adequate general lighting arrangements shall be provided during working hours in the opencast working and Regulation 146 of MMR 1061 shall be complied with.
- 15.6 All the precautions and directives given in DGMS circulars issued from time to time shall be complied with.
- 15.7 The Owner, Agent and Manager shall ensure that the aforesaid conditions are made known to all concerned. They shall also ensure that every such person has fully understood the same and complies with them.
- 15.8 Please note that this permission is subject to the following additional conditions:
- 15.8.1 In the event of any change in the circumstances connected with this permission which is likely to endanger the life of workmen employed in the mining operation

for which this permission has been granted shall be stopped forthwith and intimation thereof sent to this Directorate. The said mining operation shall not be resumed without an express and fresh permission in writing.

- 15.8.2 This permission may be amended or withdrawn at any time should it be considered necessary in the interest of safety.
- 15.8.3 This permission is being issued specifically under the regulations mentioned above and without prejudice to any other provision of law, which may be or may become applicable at any time.

भारतीय


(एम. शत्यमूर्ति)

बखान सुरक्षा निदेशक,
गाजियाबाद क्षेत्र, गाजियाबाद.

ज्ञापन संख्या/गा०के./S29024/GR/HAR/Bhiwani/153 /Per 712 दिनांक 14/7/2015

Copy forwarded for information and necessary action to :

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