

OUTCOME FROM THE LEARNING OF MOCKDRILL				
S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
101	Regarding Danger of Inundation	1. Total injuries: Nil 2.Total no of persons withdrawn =212. 3. Overman& mining sirdar started whistling & shouting receiving the information of withdrawal from CDS. Most of the workers moved outside from the district hearing the whistle. The response time of workers was 4 minutes. Pump operator posted in 46 L , main din of nit 7 was communicated via CDS . 4. All persons were withdrawn by 4:55 p.m. 5. Reporting time of official / Ambulance :- a. Agent : 4 :45, manager : 4:43,c.Ambulance : 4:40, d. Rescue trained persons :- 4:42, e. Doctor : 4:48	1. Some people started shouting and running here and there.2. Travelling road was not clean at some places, so the withdrawal took more time.	Cleaning of travelling road needs to be done at regular intervals.
102	Dump Slide & Heavy rain	1 Satisfactory, Response time 30 min 2.Satisfactory, Response time 15 min	Good	Need to be improved in system of communication
103	Fire in Dozer	(i) Mock rehearsal for assessing fire fighting preparedness at SB project was planned by safety officer on 03.04.2022(ii) venue was chosen (iii) only supervisor & Dozer operator was informed before.(iv) when supervisor has raised the alarm about the fire in the Dozer, the response of all the stakeholders was (a) the manager reached the spot within 7 minutes (b) Shift in charge in 5 minutes (c) safety team members in 10 minutes (d) fire tender in 10 minutes (e) Ambulance in 20 minutes. (e) the operator was rescued to dispensary within 12 minutes.(vi)fire fighting arrangement was deployed within 5 minutes of reaching the fire tender. Total Response time-32 minutes.(vi) the end of mock drill was announced by Safety officer after ambulance reached the dispensary.	Overall mock drill was found satisfactory but one shortcoming was happened as contact with ambulance driver was being late due business of his phone.	Separate phone shall be provided to the operator to stop the recurrence of such incident.
104	Drowning of a person	(i) Mock rehearsal for assessing fire fighting preparedness at SB project was planned by safety officer on 12.06.2022(ii) venue was chosen (iii) Foreman sri Joydev Ghosh has raised the alarm at 12.30 PM regarding one person was drowning in the sump while working. the response of all the stakeholders was (a) the manager reached the spot within 10 minutes (b) Shift in charge in 8 minutes (c) safety team members in 15 minutes (d) Ambulance in 15 minutes. (e) Rescue team members were ready to drive into water with life jackets within 2 minutes reaching the spot. (f) Ambulance reached the dispensary within 12 minutes Total Response time-27 minutes. The end of mock drill was announced by Safety officer after ambulance reached the dispensary.	overall mock drill was found satisfactory	more life jacket has to be procured during monsoon season
105	Danger of Inundation	40 Minutes	Satisfactory	NIL
106	Danger of Inundation	45 Minutes	Satisfactory	NIL
107	Inundation	1 hr. 45 min.	Rescue team members delayed to reach at the mine	Frequency of mock rehearsals should be more to make Acquainted to deal with emergency
108	Dump Slide	20 min	No delay in relay of information	NIL
109	Fire identified by worker in Automobile Section	An Oil (Diesel) Fire Identified by Mr. Rakesh (Mechanic) and he shouted "FIRE – FIRE" by 14:40 hrs. and a worker name Dawni Passah fallen from Hitachi (vehicle's) trolley while he was working on trolley. 14:55 hrs. Fire emergency information given by Officer Meraj Alam (HEMM) to Security Control Room. Safety Officer given call to fire Tender operator by 14:55 hrs. Fire was identified as oil fire due to fire on used oil drum. Fire team along with ambulance was rushed at site by 15:20 hrs. Mech. Foam requires for extinguish the oil fire, but foam drum was missing at Fire Tender. Stored pressure ABC type Fire extinguisher installed at HEMM. Mr. Dawni tried to put out fire by extinguisher but fire ext. wasn't discharged by 15:30 hrs. Dawni saw sand bucket Hanging in Fire shed, he run and put out fire by applying sand by 15:32 hrs. Debriefing given by Safety officer Mr. Prasanna Kumar Tiwari. All clear signal given at 15:40 hrs. Total 60 minutes time took to conduct the overall scenario.	Workers unknown about emergency number. Mech. Foam was not kept on fire tender. Fire extinguisher not worked properly. Ambulance & fire tender's operator not using seat belt.	'Emergency number board to be fix at all area to increase awareness about the emergency response. Mech. Foam to be procures & keeps on ready condition in fire tender for extinguishing the oil fire. Re-check-up of all fire extinguishers and action against refilling service provider. Refresher training to drivers and operators for safe driving skill while in emergency situation.

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110	Fire may catch due to short circuit/ spark induced by silencer or hot components.	The participants got the knowledge about the fire fighting procedure.	Improvement of cautiousness among the participants	Continuous improvement among the mine workers.
111	Fire accident has happened in mine premises.	ACTUAL INFORMATION TO & TIME 03:25 PM @ Talapaneni Ramu ACTUAL ARRIVAL TIME OF RESPECTIVE PERSON 3:30 PM ACTUAL INFORMATION TO & TIME 03:31 PM @ Satyajiit Palia ACTUAL ARRIVAL TIME OF RESPECTIVE PERSON 3:42 PM ACTUAL INFORMATION TO & TIME 03:27 PM @ Ankur Rathore ACTUAL ARRIVAL TIME OF RESPECTIVE PERSON 3:32 PM ACTUAL INFORMATION TO & TIME 03:30 PM @ Satyajiit Palia ACTUAL ARRIVAL TIME OF RESPECTIVE PERSON 3:42 PM ACTUAL INFORMATION TO & TIME 03:35 PM @Security-In-Charge ACTUAL ARRIVAL TIME OF RESPECTIVE PERSON 3:50 PM	Workmen were trying to control the situation & Coordination among team should improve.	Requesting the VTO & EHS Fire Officer to provide additional Training to all workmen about the usage of fire extinguishers. Requesting Shift-In-Charge to enhance the coordination and know the precaution during fire incident among workmen.
112	Fire in HEMM CK300 during operation at 11:10 AM	1. At 11:10 AM fire seen near the main engine of CK300 by Supervisor Sri Jagdish Oraon, Mining Sirdar. He stopped the operation and asked operator to come out as fire is seen. 2. At 11:12 AM Sri Jagdish Oraon, Mining Sirdar Sri Jitendra Kumar, Shift Manager and informed about the fire occurrence. 3. At 11:14 AM portable fire extinguisher present at the machines was used, but the fire was still out of control. 4. At 11:18 AM Sri Jitendra Kumar, Shift Manager long with Sri Jitendra Kumar, Colliery Manager reached the spot. 5. At 11:30 AM water tanker came at the spot with fire fighting attachment, and fire was controlled.	1. When fire occurrence was informed to Operator he hurriedly came down, in this process he could have injured himself. 2. No one opted to trigger the AFDSS manual liver to operate AFDSS manually to control the fire.	1. Instruction during the emergency shall be given carefully by supervisors, so that the operator of work persons doesn't panic. 2. Awareness about the functioning of AFDSS shall be given to workmen.
113	Fire in HEMM TH196 during operation at 10:30 AM	1. At 10:0 AM fire seen near the main engine of TH196 by Supervisor Sri Sanjay Singh, Mining Sirdar. He stopped the operation and asked operator to come out as fire is seen. 2. A10:45AM Sri Sanjay Singh, Mining Sirdar Sri Himanshu Kumar,Overman informed about the fire occurrence. 3. At 11:14 AM portable fire extinguisher present at the machines was used, but the fire w Under control. 4. A11:25 AM Sri Himanshu Kumar, Overman along with Sri Kalilash Kumar, Colliery Manager reached the spot. 5. and fire was controlled with the use of portable Fire Estinguisher	1. When fire occurrence was informed to Operator he hurriedly came down, in this process he could have injured himself. 2. No one opted to trigger the AFDSS manual liver to operate AFDSS manually to control the fire.	1. Instruction during the emergency shall be given carefully by supervisors, so that the operators of work persons don't panic. 2. Awareness about the functioning of AFDSS shall be given to workmen.

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114	Impact of CO2 (Balack Damp) on pump khalasi at pumping station	1. Mock drill successfully done 2. Importance of carrying and closely keeping eyes on the variation flame height of Flame Safety Lamp. 3. Quick Communication and response within 5 minute.	1. Mining Sirdar accompanying pump khalasi at pumping station must carry flame safety lamp./ pump khalasi directly went to see the water level without carrying FSL and informing mining sirdar.	1. Whoever is deployed at pumping station presence of FSL is must so as to avoid such incidences which has potential to invite accident in underground.
115	Dumper Suddenly falls Down Due To Edge Dumping(Dumper-302)	1. Mock drill successfully done 2. During The Inspection O/B Dump Berm Was not Found Satisfactory. 3. Ambulance Took 15 minute to Arrive At The Accident Site.	1. Due To Nonavailability Of Mobile Network,Information About The Incident Could Not Reach MTK Immediately. 2. Only 03 rescue Trained Persons Were Able To Reach The Spot.	1. Proper supervision and training of Operator. 2. Atleast 05 Rescue Trained Persons Should be Present at The Site.
116	Spontaneous heating	1. Mock Drill completed smoothly and successfully.2. Every key person made his duty as per emergency plan.3. Availability of MGD was not sufficient.4. There was huge fallen coal.	Rescue team took 01 hour to reach the site due to arduous and long travelling.	1. MGD to be adequately available. 2. Fallen coal to be removed from underground to surface to avoid spontaneous heating.
117	Inundation	1. Mock Drill completed smoothly and successfully.2. Every key person made his duty as per emergency plan.3. All persons had been evacuated from underground to surface.	Persons deployed in underground took more time to reach surface.	1. Awareness is required regarding emergency response and evacuation plan. 2. Man riding to be introduced to avoid long and arduous travelling.
118	Sudden burst of hot steam during fire fighting at coal stock at 11:15 AM	1. At 11:15 AM Shri Naresh mahto and Shri ajay kumar Sharma were involved in fire fighting in the coal stock in presence of mining sirdar shri Surender Chauhan using pipe connected to water tanker operated by shri sukra munda, when a sudden burst of hot steam due to fire in coal stock occurred. 2. At 11:16 AM Sri Surender Chauhan, Mining Sirdar informed the control room (MTK) , Colliery manager, Safety officer about the incident where Shri Arvind kumar Choubey was on duty. He instantly initiated the Emergency Organisation Plan on the advise of safety officer. 3. By 11:20 AM Shift Incharge,Colliery Manager and safety officer, Project Officer has reached the spot. 4. At 11:25 AM Fire fighting tender reached the spot. 5. At 11:27 AM Ambulance reached the spot.	1. While fire fighting, safe distance from the fire area was not maintained due to which the person holding the water pipe could have got injured. 2. A pipeline connected to the stock for use of fire fighting was not working.	1. PE/E&M has been informed to rectify the pipeline as soon as possible so that fire fighting can be done directly from the pipeline. 2. SOP for fire fighting should be explained to every fire fighting staff and supervisor and proper training should be given to deal with fire in coal stock.
119	Mock drill on drowning in sump during changing suction pipe	Life saving jackets were available at pumping station	Regular training and practices are required for use of life jackets during suction pipe changing works.	regular mock rehearsal to be organized so that more employees may be trained,
120	Dumper Fire	1. The activity of mock drill started at 11am. 2. All emergency organization members' reports at control room 11.30am 3. Persons with fire extinguishers and RTP arrived at 12pm 4.Fire got quenched at 12.30 pm.	1. RTP of the mine reported at 11.45am. 2. Lack of awareness among the work persons regarding alertness in case of fire 3. Mock drill consumed 1.5 hours	1. Response time should be reduced. 2. Need more training in respect of fire fighting 3. One water tanker shall be available round the clock for fire fighting 4. Fire extinguishers should be readily available at all vulnerable places.
121	Inundation due to failure/breaching of embankment at initial point of diverted Nallah	1. The activity of mock drill started at 2:45 PM 2. All emergency organization members' reports at control room about 3:00 PM. 3. RTP persons with lifesaving jacket reach at site about 3:05 PM.	1. RTP of the mine reported at 3:05 PM. 2. Lack of awareness among the work persons regarding alertness in case of overflow/breaching of embankment. 3. Failure of regular checking of Stability of embankment.	1. Checking of stability of embankment shall be done regularly by competent persons. 2. Awareness among work persons needs to enhance to deal with situation in case of overflow/breaching of embankment. And assembly point shall be fixed & known to all. 3. Ambulance shall be available at unit dispensary.

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		4.All persons evacuated from working places of mines at 3:30 PM.	4. Ambulance reached at 3:10 PM as no ambulance is available at unit dispensary.	4. Lifesaving jacket shall be available at mines at sufficient number and all persons shall be aware about their use.
122	Sudden increase in water level in VIII seam(mine no 1)	1.The activity of mock drill started at 1:45pm. 2. All communications to different personnel including RTP was made. 3.All Rescued trained persons were available at mines at 2:05pm. 4.all persons below ground came up on surface under supervision of overman. evacuations was completed at 2.40 pm	1. all persons were found to be acquainted with the escape route. 2.some of the persons coming from belowground were found in panic attitude.	1.Security guards need to be trained and made aware of their duty 2.workers/persons should be aware of maintaining poise during course of any emergency.
123	Fire at Laiyo bore station	1. The activity of mock drill started at 1:00pm 2. All communications to different personnel including control room before MRS team reached to spot. 3. Fire extinguishers reached the spot at 1:30 pm. 4. Fire was extinguished by MRS team with the help of foam based fire extinguisher by 2:00pm	1. All the persons were not acquaintance of operation of portable fire extinguisher process.	1. All persons needs to trained for operation of fire extinguisher. 2. the fire area needs to be fenced off
124	Drowning of pump fitter at Sump	There was quick response of Ambulance and medical staff. Little delay in response of rescue team. Phone calls done timely by MTK at Karma OCP	Life jackets were available at pump fitter. Pumps related SOP was followed to disconnect electrical supply to pump.	While working near the sump the fitter shall always wear Life jacket.
125	Drowning of pump Khalasi in face sump	There was quick response of Ambulance and medical staff, little delay in response of rescue team, Phone calls done timely by Time keeper at Topa OCP	Life jackets were available at pump khalasi. Pumps related SOP was followed to disconnect electrical supply to pump.	Haul road gradient was required more correct at bottom seam so that ambulance can directly reach upto the required site.
126	Fire in HEMM	1. Mock drill successfully done 2. Use of Fire extinguisher explained 3. Quick Communication and response within 2 minute.	1. Proper cleaning of HEMM from dust, grease, oil etc at regular interval.	1. Proper supervision and training of Operator. 2. Proper training for use of Fire Extinguisher.
127	Fire-fighting to water Tanker 28054 at coal face	1.The activity of mock drill started at 12:38 PM.2.All emergency organization and neighbouring mine were informed at 12:45 PM.3. Fire extinguishers from other running dumpers collected at the spot at 12.55 PM.4. Water Tanker from Dakra OCP reached at 1.05 PM.5. Fire tender from RRT Churi, reached at 1.20 PM	1.RTP of the mine reported at 12.45 PM. 2. Awareness among the work persons was found. 3.Some of Fire Extinguisher were not refilled on right time. 4. respond from neighbouring mine Dakra OCP was really worth of praise.	NIL
128	Fire at Dozer due to short circuit	1.AFDSS anf Fire extinguisher checked in Drill physically by the official present at the time of mock drill. 2. Water tanker reached in time at the place of mock drill. 3. All officials & ambulance reached at the site of Mock drill within 25 minutes of getting information	1. In dozer AFDSS not working properly. 2.Water tanker reached without extension hose. 3. Extra fire extinguisher reached with delay due to shift vehicle engaged in working face.	1. Regular supervision and maintenance of AFDSS. 2. Proper checking for hose pipe in water tanker. 3.Awareness should be spread during any emergency.
129	Fire in DG Set	1. Mock drill was successfully completed 2. Fire EXTINGUISHER was available and used in time. 3. Response and coordination was very good among employees conducted the mock drill. 4. Response time is 1 min.	1. Proper cleaning of DG set from dust, grease, oil is required at regular interval. 2. Proper supervision and training of DG operator.	1. safety talk to the DG operator and E&M workers. 2. Regular checking of fire extinguisher and training to use is required.
130	Fire in Substation	1. Mock drill was successfully completed. 2. Fire EXTINGUISHER was available in sufficient number and used successfully. 3. Response and coordination was very good among employees conducted the mock drill. 4. Response time is 2 min.	1. Proper cleaning and cutting of grass in substation area. 2. Proper operation of isolators switches to avoid any sparking. 3. supervision and training of substation attendant.	1. safety talk to the substation attendant and E&M workers. 2. Regular checking of fire extinguisher and training to use is required.
		1. At 11:20 AM fire seen near the main engine of CKE by Supervisor Sri Kripal Singh, Mining Sirdar. He stopped the operation and asked operator to come out as fire has been seen		

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131	Fire in HEMM CKE (L&T) during operation at 11:20 AM	2. At 11:22 AM Mining Sirdar has informed Shift Manager, Safety Officer, Mine Manager about the fire occurrence. 3. Safety officer has informed Project Officer and Rescue Room In-charge (Churi) at 11:25 AM. 4. Safety officer advised Mining sirdar to use portable fire extinguisher present at the machine and advised MTK to activate Emergency organisation plan immediately and act accordingly. 4 Within 10 minute Shift Manager, Colliery Manager and Safety Officer reached the spot. 5. At 11:35 AM water tanker came at the spot with fire fighting attachment.	1. Delay in reaching of Water tanker on the spot . 2. AFSS not functioning.	NIL
132	Fire in HEMM (EKG Shovel -419)	1. Mock drill successfully done 2. Use of Fire extinguisher explained 3. Quick Communication and response within 5 minute.	1. Proper cleaning of HEMM from dust, grease, oil etc at regular interval.	1. Proper supervision and training of Operator. 2. Proper training for use of Fire Extinguisher.
133	Mock drill of immediate action	1) Drill conducted for an hour . 2) Manpower responded in alert mode and positively.	1) Power cut during the drill, hence marching of shovel delayed 2) Shortage of Cable man was seen.	Communication was better during the use of walky-talkies.
134	Fire in Pay lader 271 at Gandhonia Paitch	Fire mock drill in Gandhonia paitch Urimari OCP inform to MTK by the supervisor about fire in Gandhonia Paitch then inform to Safety Officer, Manager, Project Officer, Project Engineer Excavation, PE (E&M) and area safety Officer.	Some person are not aware, How to deal with the situation by itself , spot discussion/ demonstration has be given.	Regular demonstration to be given to the use of fire extinguisher to deal with the Fire.
135	Inundation in Gandhonia Paitch	Inundation mock drill in Gandhonia paitch Urimari OCP in form to MTK by the supervisor about inundation in Gandhonia Paitch then inform to Safety Officer, Manager, Project Officer, Project Engineer Excavation, PE (E&M) and area safety Officer.	Some person are not aware, How to deal with the situation by itself , spot discussion/ demonstration has be given.	Regular training to be given to the water to deal with the inundation.
136	Inundation of Mines	1. On 25th June at around 11:25 am, all of sudden surface water in rushed into mine due to heavy rain fall, because the pit inundated.	NIL	NIL
137	Fire due to short-circuit at server room in system department.	1. On 27.06.2022, at about 10:45 AM, an accident (fire due to short circuit at server room) has taken place in system department. The technician Sri N. Suresh informed on intercom to Emergency Control Room. 2. The interactions of the technician Sri N. Suresh on various incidents happened during the course of Mock drill were quite clear and there was no ambiguity 3. Anxiety was not noticed in conversation during various interactions of mock drill 4. Mock drill was well coordinated during the process by Emergency team. 5. All the walkie-talkies used during the mock drill worked perfectly without any noise. 6. Cordoning off the admin office area & clearance of the route was very good by CISF 7. First Aid Ambulance reached at the site, in time. 8. Sufficient vehicles were available for movement of team in time 9. Ambulance response time was very good. Total response time - 11:00 minutes.	NIL	NIL

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138	Accident due to head to head collision of two tippers engaged for Bauxite transportation.	<p>1. On 30.06.2022, at about 10:35 AM, an accident (due to head to head collision of two tippers engaged for Bauxite transportation) was taken place near South Block weigh bridge area. The shift in charge Sri P.L.Mohanta informed over mobile to Emergency Control Room.</p> <p>2.The interactions of the shift in charge Sri P.L.Mohanta on various incidents happened during the course of Mock drill were quite clear and there was no ambiguity</p> <p>3. Anxiety was not noticed in conversation during various interactions of mock drill</p> <p>4. Mock drill was well coordinated during the process by Emergency team.</p> <p>5. All the walkie-talkies used during the mock drill worked perfectly without any noise.</p> <p>6. Cordoning off the admin office area & clearance of the route was very good by CISF</p> <p>7. First Aid Ambulance reached at the site, in time.</p> <p>8. Sufficient vehicles were available for movement of team in time</p> <p>9. Ambulance response time was very good.</p> <p>Total response time - 16:00 minutes.</p>	NIL	NIL
139	Bench Failure	<p>01. Mock Situation:- A local bench failure occurred at Nb1 north 100 rl face at 5.24 PM, in which some portion of collapsed bench came over the excavator which led to injury to excavator operator in his right hand.</p> <p>02. Action By Shift Incharge (mining operation):- A. Information shared by whom & when :-Information was passed by Purusottam Mahanto (Mining Mate DECO) to the shift incharge (TSML & DECO) through walky talky at 5.24PM and he also pressed the bottom on his suraksha card. B. Response Initiated - Communicated to whom & when : Communicated to security control room - 5.25 PM, Mines Manager -5.26 PM, Safety officer 5.26PM Excavation Incharge(DECO) - 5.27 PM.</p> <p>03. Emergency Team:- Security shift incharge with Supporting Staff, ambulance,QRT, TSML staff. A. Response Time:-Ambulance- 5.37 PM ,Security & Emergency Team- 5.37PM, Mining Manager and safety officer- 5.37 PM, Excavation Incharge(DECO)- 5.39 PM</p> <p>B.Action initiated How & When:- Purusottam mahanto (Mining mate DECO) was present near to 100rl face NB1 north, he first saw the failure of face and also heard the shout of excavator operator. He immediately informed TSML and DECO shift incharge through walky talky and called for mines ambulance. TSML shift incharge informed the control room about the incident, its location and asked for QRT team and ambulance.</p> <p>04.Incident Duration:- Total duration of Mock Drill- 18 minutes</p> <p>05.Observation details:-A good team work was observed through out the execution of mock drill and the group took action on the time which helped in reaching of injured person to dispensary on time.</p>	<p>1. The ambulance came in time(13 mins) but no medical representative was present with ambulance.</p> <p>2. Confusion was seen with QRT team in reaching the incident location.(Lackof knowledge of different zones and access route leading to them).</p> <p>3. Mines ambulance was available at the start of shift but was not present at mines at the time of incident, as it was sent to Jajpur with another patient.</p>	<p>1. A mine visit of QRT team with mining persons, which will help them to understand the access routes and about different zones of working area.</p>

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140	Bush Fire at Colony Premises	<p>1. Mock Situation:- At about 12:23hrs, Mr. Raj Singh, M/s Terra Worker, observed that fire caught on dry leaves near A/18 block . Sector-II area.</p> <p>2. Action By Control Room: a. Information Received by whom/when Security Control Room Supervisor information Received - 12:23hrs from Mr. Raj Singh, M/s Terra Worker.</p> <p>b. Response Initiated - Communicated to whom/when :Communicated to security shift incharge - 12:24hrs, Dispensary- 12:26hrs, AGM Mines-12:37hrs, ADM Mines- 12:30, Safety Manager- 12:32hrs , ADM/Manager Security- 12:39hrs, AM (SIS)-12:34hrs, Dy Manager Electrical-12:28hrs and AGM Admin - 12:34hrs. 3. Emergency Team- Security shift incharge with Supporting Staff, Ambulance.</p> <p>a. Response Time- Shift In-Charge and QRT 12:26hrs, Ambulance 12:39hrs, Electrical Department Staff-1239hrs b.Action initiated How/When:-After getting information of fire call shift In-Charge reached on the spot with Fire Team & QRT. They barricade that area & started operation. They controlled the fire by using fire tender and fire beating method.</p> <p>4. Incident Duration: Total duration of Mock Drill- 33 minutes. 5.Observation details: Fire Team and QRT reached at the location within time. Good coordination was observed between operation team, promptly act vehicle placement and fire hose branch connection. QRT thoroughly checked after dousing fire. Debriefing was done by Manager Security (TSML).</p>	<p>1) Fire Tender crossed the incident spot.</p> <p>2) Fire team delayed in branch operating.</p> <p>3) Casual approach by patrolling guard during initial stage.</p>	1. Awareness session on Fire fighting Do's and Don't
141	Electrocution during housekeeping of area near transformer	<p>1. Mock Situation:- At about 15:20hrs, Mr. Abhimanyu Mahakud, Electrical Maintenance Department, M/s DECO observed Mr. Janmejay Naik was electrocuted. Both were employed for housekeeping near transformer area at COB substation.</p> <p>2. Action By Control Room: a. Information Received by whom/when Security Control Room Supervisor received information at 15:30hrs from Mr. Abakash Pradhan. M/s TSML.</p> <p>b. Response Initiated - Communicated to whom/when: Communicated to security shift incharge - 15:33hrs, Dispensary/ADM Medical 15:35hrs, AGM Mines-15:35hrs, Safety Officer- 11:37hrs , ADM/Manager Security- 11:37hrs, Dy Manager Electrical-15:37hrs.</p> <p>3. Emergency Team- Security shift incharge with Supporting Staff, Ambulance, Medical Staff. Mechanical Maintenance staff.</p> <p>a. Response Time- Shift In-Charge and QRT 15:41hrs, DECO Ambulance 15:39hrs,Dy. Manager Electrical (DECO) -15:30hrs, Safety TSML - 11:40hrs, Dy Manager Electrical - 11:40hrs .Sr.associates Electrical-15:30hrs b.Action initiated How/When:- After getting information of medical emergency shift In-Charge reached on the spot with supporting staff. They cleared the people standing surrounding affected person, open his shoes, helmet and shirt, gave encourage to him and brought him to TSML Dispensary. Before moving from the incident spot same was communicated to mines gate supervisor to keep road clear and told WTP guard to inform medical team of Dispensary. They reached at dispensary at 15:55hrs. Doctor checked him and referred to Medica hospital.</p> <p>4. Incident Duration: Total duration of Mock Drill- 33 minutes. 5. Observation details Emergency Response Team and medical response time was good. Debriefing was done by Dy.Manager Electrical and Safety person from TSML.</p>	<p>1) While housekeeping is being carried out near charged electrical equipment electrical supervisor must be present.</p>	NIL

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			2) Emergency response preparedness training to be imparted to electrical supervisors.	
142	Tarpaulin Tying labour fell down while tying tarpaulin in the hauling truck due to heat stroke.	<p>1. Mock Situation:- At about 15:21hrs, Mr. Santha Charan Behera, deployed security guard at Sealing Point informed that Mr. Ranjit Kumar Behera of M/S Nayak Enterprises fell down and senseless while he tying tarpauling in truck at Sealing poing due to heat stroke. 2. Action By Control Room: a. Infomration Received by whom/when Security Control Room Supervisor information Received - 15:21hrs from Mr. Santha Charan Behera, M/s SIS (I) Ltd. b. Response Initiated - Communicated to whom/when Communicated to ADM Medical and Dispensary - 15:22hrs, security shift incharge - 15:22hrs, AGM Mines-15:23hrs, ADM Supply and Chain- 15:23, Safety Manager-15:23hrs , Dy Manager Security- 15:24hrs, AM (SIS)-15:24hrs, Mining Shift In-Charge-15:25hrs and AGM Admin - 12:34hrs. 3. Emergency Team- Security shift incharge with Supporting Staff, Ambulance, Mining First-Aider Team.</p> <p>a. Response Time- Shift In-Charge and QRT 15:27hrs, Ambulance 15:29hrs, First-Aider Team-15:28hrs. Manager Supplv and Chain - 15:35hrs.</p> <p>b.Action initiated How/When:- After getting information shift In-Charge reached on the spot with QRT. They removed the gathering surrounding of the victim, took him under the shade of tree, opened his shoes, helmet, shirt, blow hand fan and sprinkle water on his face. Ambulance reached at the location and taken him to dispensary. Dispensary staff checked him and found normal.</p> <p>4. Incident Duration: Total duration of Mock Drill- 30 minutes.</p> <p>5.Observation details Shift In-Charge and QRT reached at the location within time. Good coordination was observed between QRT, they immediately shift the patient under shade of the tree, blow hand fan after opening of shirt, shoes, helmet etc. When Dispensary was able to contacted by telephone then information given to dispensary by WTP Security Guard. Debriefing was done by Dy Manager Security (TSML), Sr AM (SIS) and Dy Manager Mining.</p>	<p>1) Dispensary and ADM Medical could not able to contact after several attempt by Phone.</p> <p>2) One drinking water point is given but in afternoon hour hot water is coming in it.</p>	1. Awareness session on Heat Stroke to tarpaulin tying labour.
143	Back Fire During gas cutting	<p>1. On 16.06.2022 about 11:15am, During gas cutting work of EC-480 bucket adaptor by Gopal Chandra Barik, his hand caught fire due to back fire at Cutting torch of Gas cutting set. 2. This incident was seen by Biswanath Puri & he immediately closed the Dissolved Acetylene Cylinder (DA) & oxygen cylinder valve. He took him from that place & made him to cool down under the fan.3. Mr Biswanath Puri called to the respective area owner Biswajit Barik at 11:17am.</p> <p>4. Mr Biswajit reached to the welding section & called to security control room for Ambulance at 11:18am. He pressed the SOS of surakhya card. He gave IP hand under running Tap water to heal down.5. Mr. Sanjeev Kumar Biswal called to dispensary at 11:20am from control room.6. Ambulance was sent from dispensary & reached at workshop at 11:28am & took the patient to dispensary along with Biswajit & co-worker Sarat Chandra Mohanta.</p> <p>7. Ambulance reached dispensary at 11:32am & IP was facilitated with first aid (checked temp. pulse rate. & dressing work) immediatelv.</p> <p>8. After finishing of treatment, IP retuned to workshop at 11:44am.</p>	<p>1) Dispensary and ADM M+D46edical could not able to contact after several attempt by Phone.</p> <p>2) One drinking water point is given but in afternoon hour hot water is coming in it.</p>	NIL
144	Fire Near Workshop area	<p>1. On 24.05.2022, at about 9.30 am a fire broke out near workshop area.</p> <p>2. The security guard communicate to the emergency control room (main gate) about the incident.</p> <p>3. The fire fighting Team and fire tender reached the site at 9.40 am.</p> <p>4. The fire tender put off the fire kept for Mock dill.</p> <p>5. Took the Necessary action about injured person and first aid given and called ambulance.</p> <p>6. Ambulance reached the site at 9.45 am.</p> <p>7. The area of incident was properly cordoned off.</p> <p>8. Briefing about Mock drill by security head.</p>	1. Action and Movement of fire fighting team was good.	Frequency of mock drill to be increase.

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
145	Fire broke out near weigh bridge-II of SMC & along with first aid case .	1. On 13.04.2022, B-shift at about 5.07 pm , fire broke out near weigh bridge-II of SMC.2. The Security near by the area informed to Mines Manager about the fire. Response time- 2 min. 3. As per instruction of Mines Manager, emergency was declared & siron blown. Response time- 3 min.4.Then message given to the key personnel. Response time- 15 min. 5. Fire fighting team & water tanker reached at the site at 5.19pm . Response time- 10 min. 6. First-aid team with ambulance reached at the site . Response time - 10 min.7. During fire fighting, one security person of rescue team fell down due to suffocation by smoke. As the first aid team was present their, they attained the victim immediately and send to dispensary by ambulance. Response time - 10 min. After completion of fire fighting work, all persons were warned by "All Clear" Siren.	Late coming of key personnel other than fire fighting team due to mobiles & landlines are engaged during communication and un-availability of vehicle.	Use of Walky-talkies for better communication.
146	Air blast	Observation:- 1 . The incident was informed to Mines manager immediately. Observation:- 2. Communicating to all key personnel & reporting at emergency control room. Observation:- 3. Declared Emergency by blowing siren & whistle by Security at Decline Entrance. Shaft area & near bv construction area. Observation:-4. Rescue Team & Ambulance reached the site in time.	Delay in reaching of Security Officer at the emergency control centre due to non-availability of vehicle at that time.	Immediate vehicle arrangement is to be ensured in case of emergency.
147	Burn injury due to electrical fire at PLC-1 of OHP	Brief of Activities: 1.Mr. Shiba Bahadur, a plant mechanic got a burn injury due to electrical fire while doing welding work 2.Mr Nanda Kumar Reddy, shift In-charge rushed to the spot. 3.Shift I/C informed to the Control Room and simultaneously communicated with Safety Officer. Security Officer and Mines Manager by walkie talkie. 4.The ambulance was available near the Mine Office Area. The ambulance took 2 minutes to reach at the place. 5.Testing of stretcher and first-aid is provided. 6.Application of first aid took two minutes of time. 7.The injured was loaded on to the ambulance. 8.Ambulance took 12 minutes to reach at Central Hospital which is 09 K.M away	During first aid treatment, crowd control was not effective.	NIL
148	Fire fighting at community centre	Brief of activities: 1.It is assumed that, this time a fire case happened inside the community hall near the market complex. 2.The security guard was deployed at the place of incident detected occurrence of fire and informed security incharge. The evacuation of all the persons took 01 minutes. 3.Security I/C informed to the Control Room and simultaneously communicated with Welfare officer, Safety Officer & Mines Manager by walkie talkie. 4.The ambulance was available near the central hospital and the QRT was present in the township. Both reach at the place within 03 minutes. The fire fighting took 02 minutes 5.The area declared safe after cleaning of the place of incident	Further drill is required for time management	
149	Office Evacuation Mock Drill	03.15PM - Siren blown to alert the emergency situation. 03.16PM - Employees came out of the admin building & Gathered at the assembly point. Time taken one minute.0 3.17PM - Head count done by security I/C : " Total Nos. of persons in office -57 " Total Head count near assembly point -57 " Nos. of visitors - Nil. Resources of the Drill: ü Casualties-NIL ü First Aid Required-Yes ü Ambulance Required-No Report of response team: ü Fire fighter team arrived on the spot in less than 02 minutes ü First Aider arrived on the spot in less than 03 minutes ü Ambulance Arrived at the spot in 03 minutes ü Total workshop evacuated in 2 minutes	1. The time required for arrival of the ambulance at the spot should be less than 02 minutes.	NIL

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
		03.21PM - Emergency situation declared as "Emergency Mock Drill"03.22PM - "All Clear" Siren blown to declare completion of Drill.		
150	Mock drill on saving lives from accident due to while reversing of water tanker.	<ul style="list-style-type: none"> The victim was immediately addressed by co-workers and First Aid was given at the site by the Foreman (First Aid Certificate Holder) . Immediately Doctor was informed of the incident and was asked to send an Ambulance. Upon arrival of the Ambulance, the injured person was sent for further medical examination / treatment with a co-worker. Mock drill was smoothly coordinated. 	<ul style="list-style-type: none"> Failing to Walk around the Truck Before Backing Up. Non-Functioning of AVA due to wire damaged. 	<ul style="list-style-type: none"> Remove people from the reversing area, create a vehicle only area and keep the area free from obstructions. AVA should be checked before starting the vehicle.
151	Building Collapse	At about 4:20 PM: An earthquake occurs and a building where workers were working collapsed. 4:23 PM : Siren blown by the Mining Shift In charge to warn all the persons	Management & CISF personnel were not having required Rescue facilities and appliances for cutting	1) Training by NDRF Team may be arranged every year. 2) Emergency Contact No. of
152	Gas Shielding with rescue of trapped incautious person working at overhead Crane. Cause of Incident: collapse of structure.	<ol style="list-style-type: none"> Alarm was raised in time. (09:50 am) Rescue team with First-aiders reach the site at 9:57 am. 3 persons were rescued from the site and first aid was completed at 10: 07 am. Ambulance reached the site at 10:05 am and patients were referred to KBR-MBR general Hospital. One person reported trapped at the overhead crane and was incautious coming in contact with gas leakage. CISF reached at 10:05 am and NDRF team reached at 10:10 am. Rescue of trapped person and first aid was completed at 10:42 am. Trapped person was referred to KBR-MBR hospital at 10:45 am. Short comings were discussed and suggestions were received and the Mock Drill completed at 11.30 am. 	<ol style="list-style-type: none"> Dos and Don'ts during gas cutting / working in workshop was not displaced. Some of the items for rescue from height were not present with emergency rescue team SOP for working with gas cutting was not displayed. When discussed with gathering after clearance of emergency about 20% are not aware about the exact flow of information to be taken place during emergency 	<ol style="list-style-type: none"> Dos and Don'ts need to be displayed at more no of places. All Items for rescue from height need to be kept with emergency rescue team Training on Emergency plan shall be given to all mine employees during refresher training. SOP for working with gas cutting need to be displayed.
153	Sudden outbreak of fire near on-going maintenance job near loader, Bottom Garage (Mechanical Department).	<ol style="list-style-type: none"> Mock drill start Time/Accident Time: 3.04 PM. Alarm was raised in time :3.05 PM Emergency response was met in time (First Aid Team: 3.07 PM, Vehicular/Ambulance Assistance 3.09 PM & Fire Fighting 3.06 PM) Fire fighting was done on time Mock drill was safely and smoothly coordinated (Patient Evacuated :3.9 PM & Reached Bolani Hospital By 3.11 PM . Condition of patient reported over phone by attending doctor to Safety Office at 3.15 PM) 	<ol style="list-style-type: none"> Lack of general awareness amongst employees regarding first hand rescue of person injured in an fire incident/accident. Fire fighting started even before the injured is relocated to safe distance from fire as well as range of fire extinguishers. While operating fire extinguisher direction of outlet nozzle was opposite to the direction of air current. Fire fighting activity was done in haste . More focus on emergency preparedness by the way of regular field interactions and class room trainings. Review of First Aid Preparedness as it is the primary tool while facing any industrial misshaping. 	<ol style="list-style-type: none"> Fire fighting to commence only when the injured is relocated to safe distance from fire as well as range of fire extinguishers. While operating fire extinguishers care is to be taken that the direction of outlet nozzle must be in the direction of air current. Until utmost necessary any sort of fire fighting activity must not be done in haste . These activities must be done with proper skill , patience and safety. Immediate field talk & demonstration of rescue during fire incidents/accidents (for general awareness). Workshop at site on 16.04.2022 for mock drill participants regarding fire safety & emergency preparedness. Development of First Aid rooms with necessary fixtures at relevant locations and the same to be placed under custody of First Aid Trained personnel.
154	Mock Drill on Fire Fighting at Hospital of Kalta Iron Mine	Brief Write-up on observations made during the Mock Drill:With knowledge of Asst. Chief Medical Officer, Hospital of Kalta Iron Mine, Kalta, Safety Officer put fire on waste card boards to verify the understanding of of Emergency Preparedness Plan on fire fighting	Shortcomings observed: (a)Fire extinguishers are placed at inaccessible location inside the store room.	(a) Suggested the Asst. Chief Medical Officer of Hospital, Kalta Iron Mine to keep the fire extinguishers at easily accessible location at a
	Fire Emergency	Observations:		1.Training on fire emergency shall be given to all mine employees during refresher training

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
155	(Regional Office)	<ul style="list-style-type: none"> A house keeper was burning the collected waste paper but due to wind and dry leaves the fire began to burn with high intensity. On seeing this the nearby security personnel tried to control the fire but it went uncontrollable. 	NIL	2. There is a need of exercise so as to increase awareness amongst all concerns and rescue team members suggested for more practice for smooth and speedy rescue operation
		<ul style="list-style-type: none"> He then informed the fire security I/c, Security I/c informed the fire fighting team, Safety Officer and called the ambulance. 		
		Response Time:		
		1- Fire fighter arrived on the spot= 03 Mins		
		2- First Aider arrived on the spot=04 Mins		
2- Ambulance arrived at the spot= 05 Mins				
156	Work at Height	<p>OBSERVATION:</p> <p>A crusher helper was doing maintenance work of the crusher, but suddenly he fell down on the ground. The Supervisor standing there shouted for help and informed the shift I/c about the incident. The Shift I/c informed the Mines Manager and called the ambulance.</p> <p>The Helper was given first-Aid and then taken to nearby hospital for further check-ups.</p> <p>RESPONSE TIME:</p> <p>1- First Aider arrived on the spot = 03 mins.</p> <p>3- Ambulance arrived at the spot= 05mins.</p>	NIL	NIL
157	Fire in cotton waste lying on ground after maintenance of HEMM at Workshop area.	Communication given in the area by Siren & ensured by Security In charge - 01 min.	<ol style="list-style-type: none"> The fire incident occurred due to cotton waste lying on ground after maintenance of Excavator. No designated place for waste material handling in workshop area. Lack of communication observed among fire fighting team. The first aid team seems to be treating the injured hurriedly and in process laid the injured in wrong position. Maintenance crew member seems to be casual in the maintenance operation. 	<ol style="list-style-type: none"> Housekeeping of Workshop area should be carried out at regular interval. There must be designated place for waste material handling in workshop area. More training to fire fighters to be imparted emergency Preparedness. More training to be imparted to First Aid Team for Emergency Preparedness. Maintenance team needs to be trained to perform job specific works in standard procedure. The concerned person is briefed about importance of such drill and do's & don'ts in such scenario. More awareness program on such drill is required to make streamline the activity at time of such actual emergency.
		Departmental team members were alarmed along with fire fighting team - 02 min.		
		Cordon team reached the incident area - 03 min.		
		Total area evacuated – 05 min.		
		Cordon team isolated the incident area - 03 min		
		Fire Fighter team arrived on the spot & started fire fighting operation – 05 mins.		
		Water Tanker arrived the spot – 04 min. Mines Manager & Safety Officer reached the site - 10 min. Salvage team arrived the spot – 05 min		
		First Aider team with ambulance arrived on the spot - 07 min		
		During dealing with fire, 01 fire fighter got injured. First Aider team came in action & taken the injured person into ambulance - 3 min.		
		Fire got in control with the help of fire fighting team. At last all workers were called of at assembly point & briefing given to all by Shift Incharge about the emergency response procedure and fire Emergency, "All Clear" Siren blown to declare completion of drill. Also it is pointed out by the Fire fighting in-charge to ensure about proper housekeeping in workshop area and special care to be taken during maintenance time & designated place must be there for storage of waste items to avoid such type of incident.		
158	injury due to running conveyor	During removal of wood like material from running conveyor helper hand trapped in roller and belt. Immediately First Aid was given to the person. Ambulance was called and the	<ul style="list-style-type: none"> *Not aware about the risk involved. *SOP not followed 	*SOP for conveyor to be circulated and awareness to be given to sc & cr crew
		<p>It is observed that there was an outbreak of fire at the Waste Lubricant Yard in the office premises. It occurred due to the presence of pieces of papers and dry leaves gathered by the wind storm and someone threw a match stick during smoking there. Seeing the fire and fumes, the security persons and the Store-in-charge rushed to the spot and informed the same to the mines manager and the personnel manager through the walkie-talkie</p>		
			<ol style="list-style-type: none"> Poor housekeeping near the waste lubricant yard to clean the waste papers and dry leaves. Smoking near the lubricant yard. 	<ol style="list-style-type: none"> Good housekeeping must be maintained at any lubricant yard. Smoking shall be strictly prohibited near storage area.

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
159	Outbreak of fire at Waste Lubricant Yard.	He came to the mines manager and the personnel manager through the trunk call immediately. Subsequently, the security-in-charge blew one long siren for emergency warning. All the staffs and security persons came to the Safe Assembly Point. The water tanker came to the spot in time. The security persons rushed to the place of fire with sand and water buckets and fire extinguisher. The fire was put out by the operation of fire extinguisher.	3. Negligence in following the SOP for lubricant yard.	c. SOP for the lubricant yard shall be followed properly. d. The matter of incident is required to be discussed during the safety talks given to the housekeeping persons before the commencement of the working shift by the Store-in-charge.
160	Driving dumper in drunken stage (Dumper collided with Haul Road Barrier).	It was observed that, the dumpers head collided with the Haul road barrier. Initial investigation suggested that the dumper operator was drunk. It was fortunate that he did not suffer any serious injuries and was transferred to local health centre.	(a)Not following the Mine Rules and Regulations. (b)Shortage of ALCOMETER device in the Mine entry gate. (c)Security In charge did not test the person with the Alco meter at the time of entry to the Mines.	(a) "Not to drink while driving" is to be discussed in the daily meeting.. (b) To procure more Alco meters. (c) Slogan for alcohol-free zone inside the mines. (d) Instruct the Security officer for the regular checking of every person at the entry gate.
161	Heat stroke to a person deployed at Gangaigoda sorting yard	1. Incident was communicated to all concerned within 2 - 5 mins. 2. Communication regarding location of incident site to be more specific so that emergency response team can find location easily. 3. First aid was given at site and victim shifted to Bichakundi dispensary for further treatment.	A LMV was parked near Bichakundi Dispensary, which was blocked the approach road to dispensary.	1. Heat stroke prevention measure tips to be shared among the sorting yard labours during summer in Tool box meeting. 2. Signage and locational display board post at different location to locate site easily.
162	Colliding of two dumpers at Haul-road	While the mining operation was in progress, at 9.30 A.M .suddenly two dumpers where they approached at the turning point of haul-road met head-on colliding with each other (one loaded & another empty dumper), as a result one dumper driver had sustained minor injury of leg & chest. The security personnel present there, they reported to the shift Mine foreman on duty immediately. The first-aid team along with ambulance reached at the incident at about 9.40 A.M. The dumper driver attended by the first aid team and rendered necessary first-aid immediately and sent to hospital for better treatment.	1. The concerned dumper driver did not wear the seat-belt. 2. The dumper driver was absent-mined during driving. 3. Proximity warning device fitted in dumper were not functioning properly.	1. During driving it should be mandatory to wear proper seat-belt. 2. Proper repair & maintenance job of HEMM to be undertaken. 3. Training and awareness program should be conducted from time to time for achievement of zero harm to men and property in mining activities.
163	Accident by hitting a fly rock	The helper was not aware of blasting operation. He was wondering near dump and one fly rock hit his right palm and got injured. First aid given at site and shifted to First -aid room.Responce time was 2:10 pm to 2:23.	1. Hotter was not blown. 2. No senior mining official inspect the site before blasting. 3. Employees are not properly trained. 4. Ignorance to obey the safety code of practice.	A- Evacuation of man and machineries from danger zone should be done by blowing hooter. B- Before blasting one senior mining official should inspect the blasting site including danger zone. C- All employees should be properly trained regarding blasting operation. D- Ignorance to obey the safety code of practice.
164	On-Site face cleaning for drilling operation	On dated 24th June 2022, at around 10.30 am a team of blasting helper after getting clearance from the site in-charge regarding charging of explosive in the drill holes in the 2nd Bench SE Face, started their working. During charging of explosive in the blast holes, suddenly Md. Quamuddin(Blasting Helper) make loud noise for help and got fainted due to excessive heat. Immediately Mr. Malaya Basant Rout (Blaster) who was working nearby area rushed into the spot and noticing the incident, he informed Mr. Dhananjaya Dash (Asst.Manager) and safety team. Mr. Dhananjaya Dash and safety team rushed into the incident spot and informed Mr. Gajendra Prasad Sahu (Mines Manager). After getting the information Mines Manager declared an emergency and instructed to blow the siren. Then the victim was taken to the First-Aid room by Ambulance and Mr Das instructed to fence the incident spot for further investigation, at the same time victim was given proper preliminary First-Aid and sufficient rest at First Aid Room by the First aider. Mr. Dhananjaya Dash Briefed Mines Manager about the safety measures to be taken to prevent reoccurrence of such incident. After getting confirmation regarding the health condition of the victim was normal, the Mines Manager instructed for to blow the all clear siren. After that post briefing on site emergency plan was delivered by the Mines Manger with all team members at site.	Ambulance was reached in sited 15minutes delay due to road was jammed as haul road repairing work was under progress, Blaster and Blasting Foreman was not exactly at site, Blaster information to the Manager and Safety staff got delay. Blasting helper was not taken plenty of water as the weather condition was very humidity.	Sufficient water to be taken before entering the working place and at a span of interval water to be taken as humidity is very high, Road and access to be free from any jam or huddles free access to should be ensure, Training related to weather condition and health & safety advisory should be given time to time.

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
165	Incident occurred due to working at height with out using full body harness (FBH) at Metso crusher in B shift (2.00 pm to 10.00 pm)	Mock Situation:-During Metso crusher maintenance work (shutdown period) Mr. Anant saho (Plant. Helper) was deployed to check at BC -106 conveyor motor by the supervisor of Mr. Deepak Patra (Electrical Engineer) at 3:20 pm. At the time of working at height he has not used (F.B.H). At the working period his left leg slipped in the walk way and he fell down on the 10/20 discharge chute point at 3:40 pm.Looking the situation Mr. Deepak Patra immediately rushed to the spot and passed the message to time office as well as to Mr.A.Daspattanaik (Asst. Manager,MInes) through walky talky. The First aid team reached that spot with Ambulance at 3:55 pm. First-Aid provided to that Plant helper and brought him to the First-Aid station at 4:25 pm. Then Mr.A.Daspattanaik informed all these to the Mines Manager Mr.C.Sahoo over Mobile Phone.	1) The plant helper has not used the full body harness (F.B.H) at the time of working at height. The supervisor also allowed to work without the required PPEs.	1) All the workers must have to wear all safety equipment before starting of work.
		Respond Time	2) Ambulance could have reached 5 minutes before but due to communication gap in between the time office staffs with the Ambulance driver, that reached lately.	2) All supervisory staffs should be focus on the above issue strictly.
		Asst. Mines Manager-12 min	3) First-aid could have provided to the helper by Mr.Deepak Patra before reaching of the Ambulance as one First-aid box was available within 100 meters distance from the spot of incidence.	3) Time office staff should be more alert & active to face the emergency situation at any time.
		Ambulance van -15 min		4) Refresher job orientation training should be provided to the Time office staffs & the Ambulance drivers to improve the communication system between them.
		First Aider-15 min		5) All the supervisory staffs in Electrical / Mechanical should be trained in First-aid.
166	Fire around DG area due to electrical flash	Fire around DG set area near Mine Site was reported at 10:30am by a compressor operator who was working nearest to fire poit. Consequently after report, Fire Fighting team members and officials responds quickly and diminished the fire within 08 minutes. Operations to diminish the fire were completed at 10:38am.	Miscommunication between fire fighting team leading to delay in accumulation of numbers and proper type of fire extinguisher.	A Briefing is to be done informing about the Emergency Mock Drill scenario and the objective of the drill; Also in case of Fire Emergency, Emergency Response Procedure and Hazards associated with their work need to be addressed.
		Detailed Observations:1. All the workmen and staff reported to the Assembly point without anv panic.		
		2. Communication was well enough to reach the Fire Point at the right time.		
		3. The fire-Fighting team used the right Extinguisher for the Extinguishing purpose (CO2, Sand)		
		4. Emergency Vehicle is available at Site.		
		5. The First aid team is available at site.		
		Response Time: Fire start near DG Set - 10:30am		
		Reporting Time-10:30am		
		Communication to Fire fighting team & other officials - 10:31am.		
		Fire fighting started in Fire Point - 10:33am		
Fire Closed - 10:38 am				
Staff and workers reached at Assembly Point. All activity were stopped - 10:40am				
Declared Mock drill successfully completed - 10:45am				
167	While climbing through rope ladder to reach stope face, injury caused to a person on his lower back due slips of hand grip from ladder and directly fell down on	While he was climbing through rope ladder to reach the stope face for rock bolting, suddenly slipped. His hand grip loosened from the top of ladder and he fell down ,that caused injury on his lower back. As he felt severe pain and shouted, few workers came and shifted to fresh air location.Then, the workers informed the incident to supervisor, mining mate. A stretcher was arranged within 10 mins and shifted to 4L plat within 15 mins.As the incident was informed to time office and Mine manager,man winding skip was ready available at 4th plat . As soon as his arrival at 4th plat, he was hoisted through skip	1.Hand railing was not there.	1. Hand rail should be provided along the rope ladder.
		along with stretcher to surface within 05 mins. An ambulance was ready available at pit	2.Telephone communication system was not provided within the 300m of the face development.	2.Proper communication shall be provided at every 300 mtr distance.
			3. Shortage of material at first Aid station at 4 th L like splint, bandages etc.	3. Availability of First aid material and first aid kit to be provided at nearest working location.

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
168	Fire in Mobile Light DG set	On dtd. 29/06/2022 near about 10.15pm suddenly fire occurred in the mobile Light tower DG set used near production WB. one supervisor immediately informed to Shift i/c and shift ic informed to control room. Control room immediately passed message to the fire fighting officer cum security officer and also to BLS ambulance. Within 5 minute team reached and curdon off the area and then the fire fighting tem suppressed the fire. One fire fighting crew member injured while fire fighting. The first aid team rescued the injured person and give first aid to the causality and shifted to medical by dept. BLS ambulance which reached at the spot 15 minutes of the incident. The entire operation completed within 30 minutes of incident.	1. Lack of Co-ordination among the fire fighting crew members	Instructed the purpose of the mock drill and how to perform in the actual situation
169	FIRST AID	At Thakurani Mines Entry Gate, one of the security guards was performing his daily duty. Unfortunately, the logistic truck lost stability as he was inspecting it during the D.O. check, truck lost his control and came back, Hit the security guard. He collapsed. The security team then arrived to assist the injured person. According to the Emergency Response Plan, the security officer then immediately alerted the Shift Incharge, the Safety Officer, and finally the Operational Incharge. Then the safety officer informed the paramedic, then ambulance arrived at the location. A paramedic exited the ambulance, spoke with the patient about his health, examined his pulse, and then drove him to the first aid station. At the end, the shortcomings were briefed by the safety officer to the employees present at the incident location.	1. Unawareness of First aid on an injured person.	a. Awareness training to be imparted to all security crew regarding First Aid.
		a. 11:45 am -Mock drill started (Security guard fell down)	2. Inappropriate way of handling the patient.	b. Specific training on Handling of patient and stretcher.
		b. 11:46 am - Security team informed to shift in-charge and security officer		
		c. 11:48 am Shift in-charge reach at location		
		d. 11:49 am -Safety officer reach at location.		
		e. 11:50 am ambulance reached at location .		
		f. 11:52 am ambulance left the location with patient g. 11:53 am ambulance reached at First Aid station		
170	Electrocution	1. A mock drill was conducted regarding the action to be taken in case of a Person Get Electrocuted at 04:30 pm on dated-27.06.2022.	a) More coordination and awareness is required as to how to tackle a situation amongst fellow workers. Workers took time to react to a particular situation when they were called for help and more alertness is needed amongst workers.	a) Proper training is being required on regular intervals to tackle this type of situations.
		2. One Worker while doing maintenance work in DG area got electrocuted due to not using proper PPE's. He fell down and was in a senseless position a person standing nearby shouted for help and called the ambulance and informed the in charge. The ambulance reached the site within 3 minutes and the First Aider present their attended the worker, stretcher was taken out by the first aiders and the injured worker was then put to the stretcher.	b) Emergency siren not found in DG area.	b) Emergency siren/Alternate warning system to warn the employees during emergency.
		3. The other fellow workers took about 2 minutes to respond then came to the spot. One of the workers isolated the area as well as removed the source of power simultaneously the other worker removed the helmet and shoes of the injured worker.	c) alternate arrangement for communicating to control room/Time office during the emergency situation.	c) Walky talky to be provided at gate for communicating to control room/Time office during the emergency situation.
		4. The ambulance reached the first aid station within 2 minutes,		
		5. First-Aider team reached at the spot at about 04:35 PM.		
		6. The ambulance reached the First aid room at 04:40 PM		
171	Fall of person due to slippery floor at Lubricant Storage Room	On 09th April 2022 at around 10.05 am it was reported that a contractual person fell down on the floor at Lubricant Storage Room of F/M Section and as a result got minor injury in his right leg and hand. Information was given to all concerned authorities and First Aid was given on the spot. Ambulance was also called which arrived in quickest possible time (18 minutes) from the Hospital. Mine Manager and Safety Officer reached the site and enquired about the incident and gave necessary instructions.	i) Oil dispensing system was defective.	ii) Oil dispensing system to be improved to prevent spillage of oil.
			ii) Floor of the Lubricant Storage Room was found to be somewhat slippery.	ii) Antiskid tiles to be installed on the floor of Lubricant Storage Room and proper housekeeping to be maintained.
			iii) There was lack of knowledge among employees regarding handling and storage of lubricant oil.	iii) Create awareness among employee for safe handling of lubricant.
		1. A mock drill was conducted regarding the action to be taken in case of fire incident occurred at site at about 04:00 pm on dated-27.05.2022.	a) Designated assembly point was not in appropriate place.	a) Emergency Assembly point to be re-designated at appropriate place.

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
172	Fire fighting	2. The security guard of camp was disposing wastage materials of the camp by burning the wastage materials in a dust bin. During that time, fire outspread nearby area of dust bin to towards the camp. During fire extinguishing one fire-fighter was came in contact with the flames and injured. 3. Security Officer reached at the spot immediately and communicated incident related message to control room/time office. 4. Time office communicated incident related message to all concern HOD. 5. HR officer intimated the incident to Mines Manager and safety officer. 6. First-Aider team reached at the spot at about 04:05 PM 7. The ambulance was reached at the dispensary at 04:09 PM	b) Emergency siren not found in camp area c) Alternate arrangement for communicating to control room/Time office during the emergency situation.	b) Emergency siren/Alternate warning system to warn the employees during emergency. c) Walky talky to be provided at gate for communicating to control room/Time office during the emergency situation.
173	Fire at Workshop (Lubeyard Area)	Observations made during the Mock Drill:- a. Time of Raising The Alarm:-41 sec. b. Time of Telephone to HOD/Safety officer/Mines Manager:-02min 28sec c. Time of Telephone to Quick Response Team:-37sec d. Time of Telephone to Rescue Team:-27 sec e. Time of Telephone to Ambulance:-29 sec f. Time of Action Started for Rescue Operation:-03min 58 sec g. Time of Arrival of Quick Response Team:-05min 11sec h. Time of Arrival of Rescue Team:-05min 47 sec i. Time of Arrival of Ambulance:-04min 18sec j. Time of Completion of Mock Drill:21min	Some employees of workshop could not operate fire extinguisher.	Operation of fire extinguisher training will be conducted.
174	First aid	• Mock drill start Time/Accident Time: 3.30 PM. • Alarm was raised in time :3.32 PM • Dumper operator Mr. Murali Kujur while getting into dumper (No. 37) cabin, suddenly slipped and fell down at 3.35 PM • Nearby guard informed to the first aid team leader about the incident at 3.38 PM. • Immediately first aid team lead by Mr. Suman Kindo rushed to the spot i.e. at dumper parking yard along with his team members at 3.42 PM. • One of the team member called ambulance. • After discussing with the injured operator fracture was expected at his right hand forearm. First aid was given to him at 3.45 PM and sent him to dispensary for further check-ups. • send to dispensary for further treatment. • Total event was completed successfully in 16 minutes.	Shortcomings Observed: • After call normal bolero reached to the spot instead of ambulance • Later (after 5 min.) ambulance was reached.	• After receiving message ambulance should send immediately.
175	Fire during operation at Sandvik crusher plant	1. Fire Incident was communicated to all concerned within 3 - 5 mins. 2. Plant was stopped and Emergency contact number was used for communication. 3. All emergency services, ambulance, first aiders and statutory persons available at mines reached the site within 11 - 15 mins. 4. Area was barricaded and all persons were evacuated and sent to	1) Lack of Awareness amongst workers observed regarding Assembly point location. 2)Lack of general awareness amongst some workers regarding operation of fire extinguisher	a) Assembly point location to be prominently displayed in the plant area b)Field demonstration and training on operation of fire extinguishers
176	Accident caused to the Mine Supervisor due to coming across the tipper while reversing at the loading point at around 10.09 am	Mock drill was conducted to rescue the injured Mine Supervisor coming across the tipper while reversing at the loading point at around 10.09 am. 1. The Mining Mate deployed at the loading point saw the accident and rushed to the incident place shouting for help from other personnel. 2. The Mines Foreman and other first aiders immediately attend the place and started First Aid to the injured. 3. Meanwhile, the Asst. Mines Manager informed the First Aid station about the incident with proper location and directed to move first to the location. 4. Within a short span of time, the ambulance with Pharmacist reached the incident area. 5. The rescue team shifted the injured to the First Aid station for further treatment. 6. The mock drill exercise came to an end at 10.20 am . It took around 11 minutes for the complete exercise.	The inspection team observed that the AVA system of the tipper was not working properly.	The Mine Management arranged a meeting with the mechanical team. It is found that their must be some negligence in the daily routine check-up of the equipment. Hence, the management advised the team to be serious enough in future and a squad team is formed to monitor all the maintenance jobs.
177	Falling of Boulder from dumper and injured by miner	The P R Miner is standing side of the tipper at the time of loading of face residual by the Excavator. One oversize boulder spillage from the Tipper and fall down the leg of the PR Miner. The PR Miner injured due to absent minded. The Supervisor informed immediately to the Foreman present in the plot. The foreman informed the same to the Asst. Manager & called the Ambulance with First -Aid team. At first the First Aider had given the First-Aid treatment to the Supervisor, then send him to the nearest hospital by Ambulance for	1) The P R Miner is standing side of the tipper with absent minded. 2) The operator has not the seen surrounding area. 3) The Supervisor also has not look after the surrounding area.	1) The Supervisor should follow the 'SOP' 2) The supervisor and the operator should check the surrounding area. 3) The operator should followed the 'SOP'

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
		and treatment to the supervisor, then send him to the nearest hospital by ambulance for better treatment.	4) The operator overloaded the tipper.	
178	PERSON HIT BY TIPPER WHILE REVERSING AT LOADING AREA	1. Chances of collision of person while reversing tipper in loading areas and collision of person while turning excavator in swina area. 2. Causes of Accidents during tipper movement on haul roads And excavator operation. 3. How to eliminate the situations of collision of persons at work places. 4. Awareness of drivers in respect of traffic rules, SOPs, and Traffic signs etc. 5. Awareness of work place safety 6. Mock drill for people responding in case of accident. 7. Mock drills helps work men to respond quickly with presence of mind in case of emergency. 8. Collecting suggestions from the Operators and implementing the same.	NIL	NIL
179	Oil Fire	Satisfactory	Fire Extinguished from the opposite direction of wind	Given Suggestion to attack the fire from opposite direction.
180	Fire Fighting at Mines area.	The mock drill is conducted during shift starting time. All are actively involved in Mock drill. Our internal fire team organised Mock drill to mining operation team and maintenance team. Explained about basics of fire fighting, types of fires and control measures.	NIL	NIL
181	Injury due to blasting fly rock	1) On 16.03.2022 at 12.30 PM, Blast firing was done and immediately one of the supervisor deployed for installation of minimize for vibration reading near the crusher area. 2) He came out of blasting shelter and got right hand due to hit of fly rock. 3) The Person is taken to company Hospital immediately after giving first aid treatment. 4) On reaching Hospital, treatment is given to the victim. 5) At 1.20 PM, Mock drill concluded and informed to the Manager accordingly.	Refresher training to blasting & mining team on taking shelter during blasting	NIL
182	Incident of accident due to overhanging boulder falled at face	Explained about the importance of mock drill and create awareness in case of emergency and alertness among all the workmen. Accordingly Conducted mock drill, how to prevent the overhanging /fall of boulders at face. Counted the response time and personnel.	1. Overhanging boulders found at face. 2. Insufficient platform for loading machine & Speed of tippers while reversing a bit more.	1. Maintain time to time face dressing to remove overhanging boulders. 2. Proper platform provided and Maintain the height of the safety berm upto tyre height. 3. Proper training to personnel involved in mining operation (drivers, operators)
183	Fire Hazards	Fire Hazards	Providing of water tanker with high pressure pump and sufficient hose pipe to be available at all the time with trained persons wherever necessary.	Providing of water tanker with high pressure pump and sufficient hose pipe to be available at all the time with trained persons wherever necessary.
184	Fire Hazards	Fire Hazards	Providing of water tanker with high pressure pump and sufficient hose pipe to be available at all the time with trained persons wherever necessary.	Providing of water tanker with high pressure pump and sufficient hose pipe to be available at all the time with trained persons wherever necessary.
185	Fire fight	It is observed that due to lack of fire extinguisher at the time of accident	Frequent training required	A brief note put up for management frequent training to be needed for every employee while an accident takes place.
186	Fire near Mines workshop	Taken the feedback from operators and mechanics	NIL	Conducted the awareness program on fire safety
187	Assumed that there was a oil spillage near to the Diesel Bunk area.	1. During the Diesel filling time the helper observed oil spillage near to the Diesel bunk. (2) Helper unfortunately stepped on the oil spillage and slipped down. (3) Diesel spillage was cleaned and maintained good housekeeping (4) A meeting was conducted at the assembly point to discuss the emergency to all the employees and workmen.	NIL	NIL
	Drowning of a person in Sump	Nature of accident assumed for the Mock Drill:- Drowning of a person in Sump. The mock drill was conducted by involving of Safety department, Mine Officials and mines workmen in the presence of, Mines-Agent and Mines Manager. Brief write-up on observations made during the Mock Drill:-	The safety department Head deputed for recording the Observations. 1. The pump operator was not worn the life jacket while inspecting the pump. 2. Life jackets kept in pump house which was not reachable immediately.	1. Whoever work near pumps should wear life jacket all ways. 2. Do not engage the person who does not know the swimming. 3. Display board to be fixed near pump in Local language with visuals.

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
188		At 7:30 AM, Pump operator was drowned in the sump which is 3 meters depth of water due to slipped while inspecting the pump.	3. The electrician could not able to perform CPR due to forget the procedure.	4. Refresher training to be given periodically in First Aid. 5 .Near pump area permanent barricading to be provided.
		At 7:32 AM During inspection electrician was near starter and saw the pump operator is drowning in the sump, immediately the electrician went to pump house and took 2 no's life jackets for self and for the pump operator to save.		
		At 7:35 AM The electrician worn life jacket and jumped in to the sump to rescue the pump operator and brought to level surface, mean time Asst Manager arrived to the spot and communicated to ambulance & Doctor and subsequently Mine Manager and Mine Agent.		
		At 7:55 AM the ambulance with doctor reached at site and performed the CPR to the victim.		
		At 8:00 AM the victim was shifted to the OHC for medical check-up was done by the Nursing Staff and condition of the victim was found normal.		
189	Fire Drill	1) Emergency at Mines area.	Water Leakage observed at Fire tender male-female coupling area	Instructed Mechanical department for arrest the water leakage at Fire tender male-female coupling area
		2) Local Emergency alarm given as per emergency code.		
		3) Informed to Mines HOD, Time office, Ambulance & Fire Tender.		
		4) Fire tender reached to incident place and controlled Fire.		
		5) Ambulance reached to the incident place.		
		6) First-aid given to injured person and took him to ambulance with a stretcher.		
		7) Ambulance started from emergency point .		
		8) Ambulance reached to OHC.		
		9) Treatment done by the doctor.		
		10) Situation normalized.		
		11) The Safety Dept., addressed the gathering and announced that the emergency is Call off Siren.		
190	Maintaining of benches both in ore & OB in monsoon by forming garland drains and safe guarding the dump.	1) FINALISE THE QUANTITY OF AMMONIUM NITRATE PRILL REQUIRED FOR THE BLAST.	1) All the benches where ever the material is soft and proven to be danger due to the risk of erosion, it will be provided with the garland trenches to safe guard the mine benches from the erosion and divert the water into the sump where the water can be stored at the place without any danger to the mine workinas. 2) we formed the sumps / for storage tanks wherever required to settle the dust particles into it and divert the fresh water out side the lease area. 3) All the additional works which are not so urgent has been stopped for an instance. Deployed less machinery and manpower which is required to feed the factory which is located outside the lease area. 4) as far as possible we have developed separate roads for the loaded and empty vehicles, instead of this we have cut the speed limits of the vehicles to 20 kmph which will give comfort timing to under stand and take the right decision by the driver / operator. 5) Dumping area is under the supervision of Mate he will maintain all the operations at the dump under the guidelines of Manager Mines. Machinery provided for timely clearing the dump.	1) All the benches where ever the material is soft and proven to be danger due to the risk of erosion, it will be provided with the garland trenches to safe guard the mine benches from the erosion and divert the water into the sump where the water can be stored at the place without any danger to the mine workings.
		2) LOADING OF THE AMMONIUM NITRATE BAGS IN THE EXPLOSIVE VAN MANUALLY TO SHIFT TO THE MIXING SHED.		
		3) EXPLOSIVE VAN DRIVEN BY THE AUTHORISED DRIVER TO THE AMMONIUM NITRATE MIXING SHED.		
		4) UNLOAD AMMONIUM NITRATE BAGS IN THE ALUMINIUM TRAY IN MIXING SHED.		

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
		5) EMPTY TWO BAGS AT A TIME AND BREAK THE AMMONIUM NITRATE PRILLS IN SOLID FORM. AS THE PERMISSION IS 200 KG AT A TIME.	6) All three sides of the dump is covered with good plantation except the active part which is safe and we have provided garland drains and parapet walls also to divert the rain water and to prevent running of silt due to erosion if any. 7) we have planned to plant about 1500 no's of plantation in the current year to generate good greenery all along the dump and other places which will restore the greenery and save the dump from the erosion due to heavy rains.	
		6) MIXING OF THE DIESEL WITH THE AMMONIUM NITRATE PRILLS AT THE RATE OF 6% TO THE WEIGHT OF THE AMMONIUM NITRATE PRILLS.		
		7) LIFTING OF THE ANFO TO THE BAGS AND PACKING THE SAME, THESE ALL ACTIVITIES UNDER THE GUIDELINES OF THE COMPETENT PERSON BLASTER / MATE.		
191	Tipper Collision	Response time is good	Need to do more drills	NIL
192	Injury to hand due to unsafe practice of tool.	1. At 04.42pm Mr. N.Saraiah, drill helper was got injured due to unsafe practice of tool, when he was working on drill machine. Mr. N. Shankar, Driller working on the same machine, where the incident was happened saw that the victim was shouting. Immediately stopped the drill machine and helped the victim to step down. Mr.T.Tirupathi and Mr.Khader both working nearer to the incident spot, informed to Mr. K.Premasagar Reddy, Drilling in charge. He immediately rushed to the spot and informed the same to Mr. T.Sudarshan Reddy, Section in charge (Drilling & Blasting) and Primary Controller at 04.44pm. 2. At 04.45pm Mr. T.Sudarshan Reddy, Section in charge (Drilling & Blasting) and Mr.Mutyam Ravi (Safety Officer) has reached the incident spot and immediately brought up the First-Aid box and given the First-Aid. 3. At 04.46pm Mr. T.Sudarshan Reddy, Section in charge (Drilling & Blasting) and Primary Controller has informed by telephone to the Factory Main gate. The OHC & Safety team has given quick response to the incident. 4. At 04.47pm Mr. T.Sudarshan Reddy, Section in charge (Drilling & Blasting) has informed by telephone to Mr.M.Ravindar Reddy, Mines Manager (Incident Controller) about the incident. 5. At 04.50pm Mr.M.Ravindar Reddy, Mines Manager (Incident Controller) reached to the spot and asked the witnesses about the incident, also informed Mr. Subhashish Bose-Mines Agent (Site Controller). 6. At 04.50pm Ambulance along with one compounder has reached the spot and immediately shifted the victim to the dispensary at 04.52pm. 7. At 04.56pm Ambulance reached the OHC, Medical Officer along with his OHC team of compounders are ready with medical equipment, immediately picked down the victim and started the medical treatment. 8. After completing the mock drill, Mr.M.Ravindar Reddy, Mines Manager (Incident Controller) & Mr.Mutyam Ravi (Safety Officer-Mines) has conducted awareness on precautions to be taken while working on Drill machine and also explained the procedure to be followed after such incident, importance of SOPs and also briefing of Mock drill.	Lack of knowledge of workmen over the importance of job specific PPE.	The Mines Manager & Safety Officer has suggested the management to arrange some more programmes to make awareness among the workers regarding the importance of PPE & Job Specific PPE.
193	Person was hit by the truck while reversing at Central Repair Shop	Observed that all the concerned persons are communicated about the incident and all responded immediately and rushed to the spot along with first -aid kit .Injured Person was given first aid and shifted to health centre by Ambulance and medical support is given in time.	1. Splints required during First Aid for immobilising the injured leg are not available at spot. 2. Reverse gear alarm is not provided in truck.	1. First aid splints to be provided in Central repair shop 2. Reverse gear alarm to be provided and maintained in the truck
194	Mock drill of localized fire	There were various agencies involved in mitigation operation. Details of their sequence and activity are given below: 12:30 hrs: Initiation of incident (fire near dump area) and created emergency situation 12:31 hrs: Operator has seen fire. 12:32 hrs: Operator tried to extinguish fire by fire extinguisher but it was not controlled. 12:33 hrs: Mine Foreman informed to Asst. Manager about incident.	Ambulance reached late at incident site due to	Strengthening of system of communication for

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
194	fire near O/D dump area	12:34 hrs: Asst. Manager informed to Incident controller & Mines manager. 12:35 hrs: Asst. Manager conveyed message to Fire station and ambulance. 12:38 hrs: Asst. Manager reached incident site with first aid kit. 12:40 hrs: Safety officer & Mines Manager reached at incident site. 12:41 hrs: Fire tender reached at site with fire fighting crew from plant 12:42 hrs: Head counted by Safety officer. 12:47 hrs: Ambulance reached at incident Place. 12:50 hrs: Information given to all that this was a Mock drill	communication gap	any emergency situation along with proper location is conveyed to everyone
195	Injury to Excavator operator while working	<ul style="list-style-type: none"> Excavator was provided with all safety features including wind shield guard. The importance of knowing the technical specifications of machinery i.e weight of the machine/counter weight before handling the boulders, material, bench cutting. A small piece of rock may pierce through the front glass and make injure to the operator due to improper operating. The importance of wind shield guard is understood which may avoid the piercing of smaller piece of rock in to operator's cabin. No supervisor should be present near the machine at least the boom length of the machine plus 5mtrs 	Nil	<ul style="list-style-type: none"> Commutation to the right person at right time in case of emergency. All Safety features to be provided to the machinery. Operator should Undergo VT class regularly. Technical Specification of Machinery should be taught to operators. Importance of Tool box talks before work allocation. The importance of using PPE's while working
196	PERSON FALLEN FROM HEIGHT	<p>1.) The Mock drill was carried out at 10:30 AM at workshop. (Start time)</p> <p>2.) At around 10: 35 AM the ambulance arrived at the spot with first aid team - (Time taken 5 minutes).</p> <p>3.) At around 10:36 AM officials like the Mines Manager, the production in charge along with Safety officer and workmen inspector reached the spot- (Time taken 6 minutes).</p> <p>4.) The mechanic was rescued and shifted immediately to the first aid station for further treatment by 10:37 AM- (Time taken 7 minutes).</p> <p>5.) The Ambulance reached the Dispensary at time - 10:42 AM (Time taken 12 minutes).</p> <p>6.) Situation under control declared on 10:45 AM (Overall time taken 15 minutes).</p>	1. The incident happened due to the tools in mechanic's hand while climbing up the dumper ladder. The tools made the grip of hand weaker and subsequently the three-point contact was not strong enough to move forward.	SOP to be followed, specially three points contacts to be ensured while moving up.
197	Fire accident	Assumed that Fire accident occurred near conveyor belt due to dry grass around the conveyor belt which may damage the conveyor etc On 17.04.2022 we had conducted the mock drill fire engine and fire fighting team rushed to the spot within 12.0 min Ambulance along with Doctor came to the spot within 18.0 Min	During that time Mobile signals were failed about 10.0 Min however fire fighting team rushed to the spot by hearing the siren and after that Ambulance along with doctor came to the spot after receiving telephonic communication.	Need to have alternate communication system to communicate in case of Failure of Mobile network. Intercom telephones are established immediately after this Mock drill.
198	Machine Toppling while Working	The importance of the operator checking the benches condition before starting the machines to ensure the safety of persons working above and below benches	NIL	Always ensure that the safe operating procedures are followed
199	Incident of waste dump slide	<p>(1) Evacuation drill performed as planned and drill undergone smoothly.</p> <p>(2)Mock drill observation and recommendations: ERT team /emergency contact no's be displayed.</p> <p>(3) Mock drill went on as planned and as per the timings.</p> <p>(4)All employees of Mines responded very promptly.</p> <p>(5)There were no incidents.</p> <p>Alarm activated by meqa phone /emergency communication: 4:15 pm.</p> <p>Emergency mitigation time : 4.45 pm.</p>	There is a need of exercise so as to increase awareness amongst al concerns and rescue team members suggested for more practice for smooth and speedy rescue operations. Emergency contact numbers &First aider lists to be displaced at more places. Training on emergency plan shall be given to all mine employees during refresher training.	<p>(1)Check the dump condition before unloading the tipper.</p> <p>(2) Dump safety berm height to be maintained to size of the tipper tyre height (3)Dump consolidation to be maintained</p>
		<p>10.41Hrs. Mr. Shailendra Sharma observed the fire incident at HSD pump area.</p> <p>10.41 Hrs. Mr. Shailendra Sharma called emergency control center and informed about the dry grass fire at mine HSD pump & informed the incident to Security personnel. 10.42 Hrs. Emergency Siren activated for alerting people. 10.42 Hrs. Mr. Prabhu and Ramakanth both diesel filling helpers trving to suppress the fire.</p> <p>10.42 Hrs. Mr. Prabhu while suppress the fire has got burn iniuries.</p> <p>10.44 Hrs. Mr. Ravindra Reddy safety officer reached at incident spot</p>		

S.NO	TYPE OF MOCK DRILL	OBSERVATIONS	LEARNING	OUTCOME
200	Mines HSD pump area dry grass fire	10.44 Hrs. Mr. Dayanand (Security and fire team) and his team reached to site 10.44 Hrs. Mr. Phani Rajeev incident controller (shift in charge) reached to site. 10.47Hrs. Fire Water tanker reached to site for firefighting. 10.47 Hrs.All personnel assembled at assembly point 10.50 Hrs. Fire brought under control. 10.47 Hrs First aid done by first aider. 10.51 Hrs. Medical team: Dr. Suresh and ambulance reached to site. 10.51Hrs. Dr. Suresh asked to incident controller about the medical history happened here and any first aid treatment given to injured person. 10.53 Hrs. Medical team shifted the injured person to hospital. 10:55Hrs. Ambulance departure to hospital. 11:00 Hrs. Admin. Vehicles reached to site for evacuation and time office officials reached to assembly point for head counting. 11.10 Hrs. Briefing of Emergency preparedness plan and observations to assembled persons. 11.15Hrs. All clear siren and safely disbursed the assembled persons.	1. After filling the water, the tanker arrived to the incident site which was delayed by 5 minutes.	1. The water tanker should always be parked with full water tank condition.