एनटीपीसी
NTPC

एन टी पी सी खनन
NML

BEST PRACTICES OF PBCMP

"TAKE CARE OF SAFETY,
PRODUCTIVITY WILL TAKE CARE OF ITSELF."

LMV Road & Junction Mgmt.

Signage Boards along with Speed Breaker

The LMV management initiative from July safety drive was done with important safety elements like speed breakers at entrance and exit points of LMV road, directional boards at junction, road numbering, and blind spot mirrors. These measures helped in reducing accidents, especially at junctions and entry / exit points.

Solar Blinkers for Junction

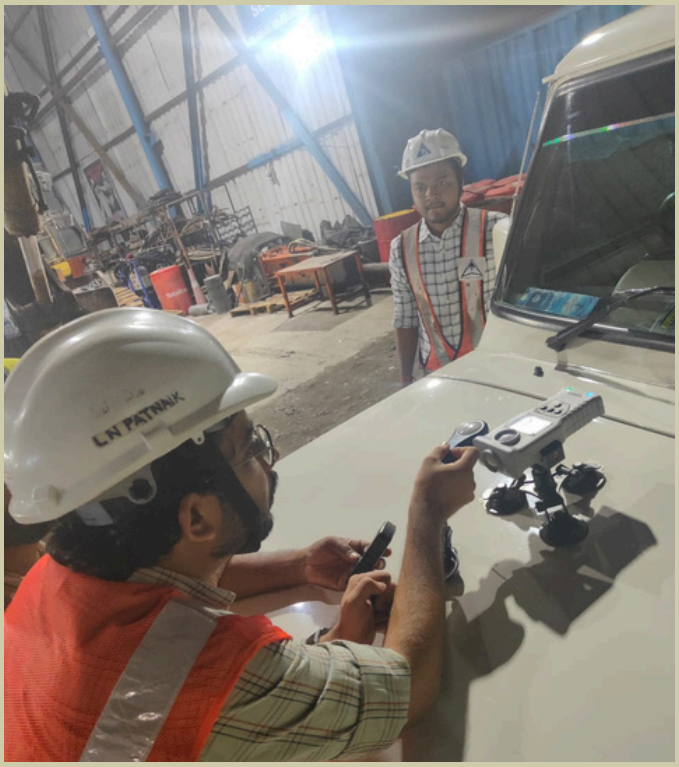
Junction Demarcation through Blinkers

Solar-powered blinkers have been strategically installed at critical junctions throughout the mine to enhance visibility and alert operators to potential hazardous areas. **These blinkers serve as warning signals, ensuring that drivers of heavy machinery and vehicles are aware of the critical zones which they would be approaching.**

This proactive safety measure ensures that operators can navigate the mine more safely, contributing to a smoother and more secure workflow.

Vehicle Mounted Luxmeter

Luxmeter to Enhance Illumination Standards

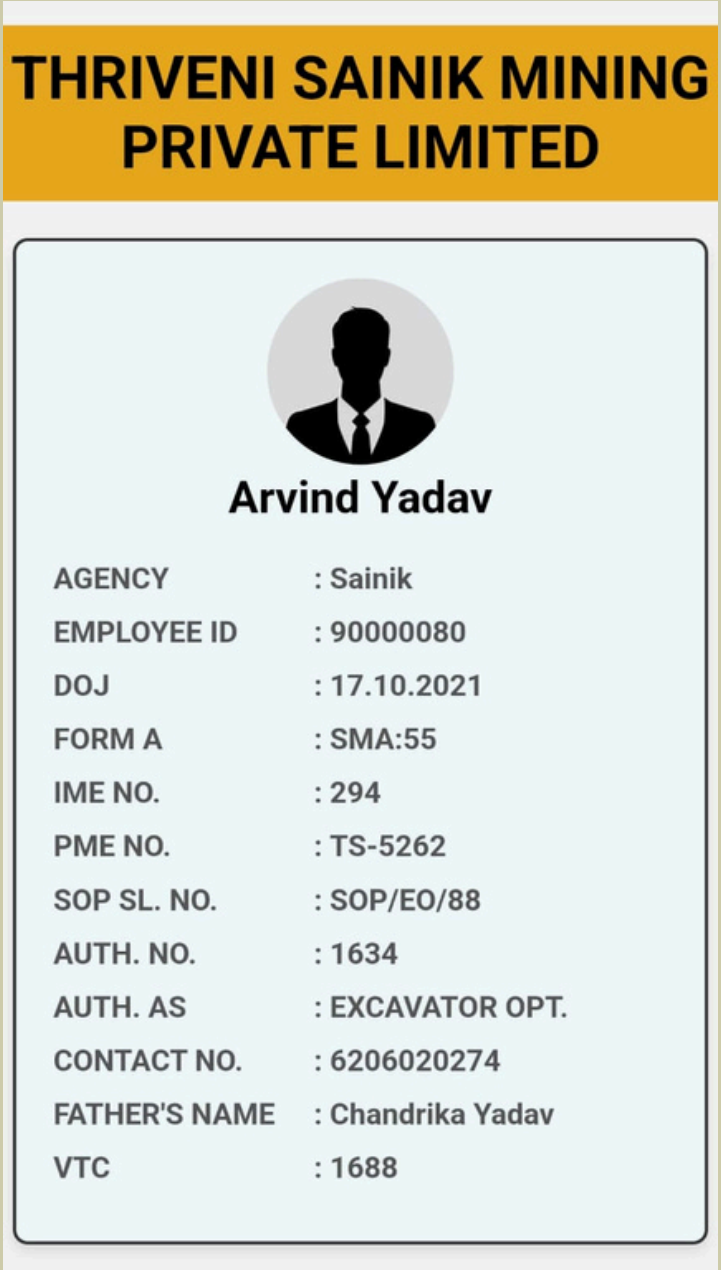


The gadget can continuously measure illumination levels as the vehicle moves, providing real-time data across different locations and conditions. It is particularly useful for large-scale operations like mining, where lighting conditions vary widely. A mobile solution allows for quicker and more extensive coverage of the area under observation. This reduces the time and labour needed to assess illumination in large areas.

Instead of manually measuring illumination at various spots, which can be time-consuming and labour-intensive, a vehicle-mounted gadget allows for automated and continuous assessment, saving both time and resources.

QR Code For Employee Detail

Quick Response Code for Each & Every Individual



THRIVENI SAINIK MINING PRIVATE LIMITED

Arvind Yadav

AGENCY	: Sainik
EMPLOYEE ID	: 90000080
DOJ	: 17.10.2021
FORM A	: SMA:55
IME NO.	: 294
PME NO.	: TS-5262
SOP SL. NO.	: SOP/EO/88
AUTH. NO.	: 1634
AUTH. AS	: EXCAVATOR OPT.
CONTACT NO.	: 6206020274
FATHER'S NAME	: Chandrika Yadav
VTC	: 1688

As a part of compliance for recommendation of 12th NSC - every person employed in mine should be issued with a smart digital token containing his / her complete details. A trial for the same was done at PBCMP.

The QR code is affixed to the helmet of the employee, allowing anyone to retrieve his data by simply scanning the QR code using a smartphone or similar device connected to the internet.

Till September 2024, it has been implemented for all NTPC & TSMPL executives, drilling & blasting crew members and planned for all the persons deployed in mine in phase wise manner. This implementation ensures quick access to essential details about personnel involved in mining activities.

Deviation Reporting by QR

Online Deviation Reporting System

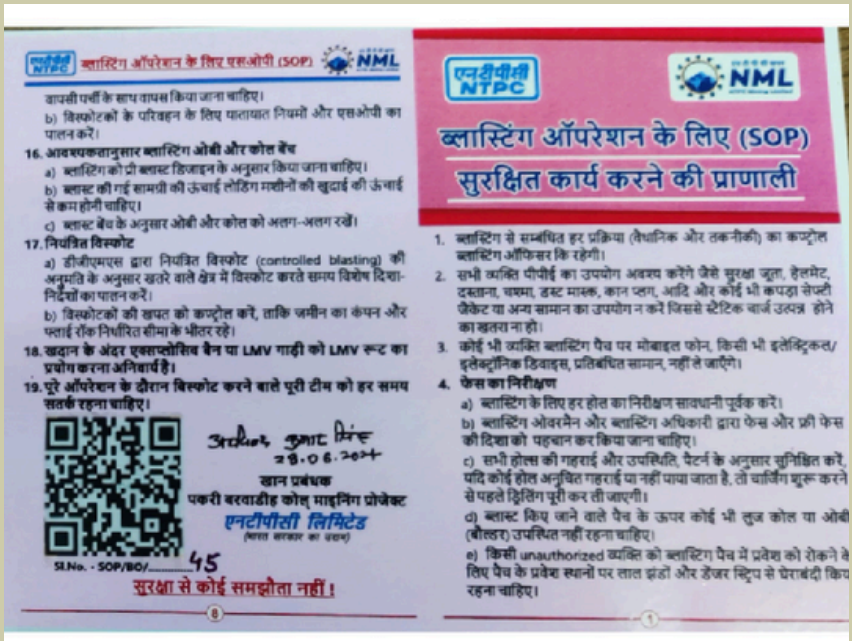
To enhance safety and streamline communication, QR codes have been strategically placed at prominent locations throughout the mine. These codes provide a quick and efficient way for workers to report unsafe acts, hazardous conditions, near miss and mine-related incidents.

With a simple scan, any employee can submit their concerns and even attach photographs (if required).

This system is not just about convenience, it enables immediate corrective action by instantly highlighting deviations to higher management, allowing for swift responses to ensure a safer workplace.

SOP Awareness

Employee Details Encoded SOPs



ब्लास्टिंग ऑपरेशन के लिए (SOP)
सुरक्षित कार्य करने की प्राणाली

1. ब्लास्टिंग से सम्बंधित हर प्रक्रिया (वैधानिक और तकनीकी) का कण्ट्रोल ब्लास्टिंग ऑफिसर कि रहेगी।
2. सभी व्यक्ति पीपीई का उपयोग अवश्य करेंगे जैसे सुरक्षा जूता, हेलमेट, दस्ताना, चश्मा, डस्ट मास्क, कान प्लग, आदि और कोई भी कपड़ा सेफ्टी जैकेट या अन्य सामान का उपयोग न करें जिससे स्टैटिक चार्ज उत्पन्न होने का खतरा ना हो।
3. कोई भी व्यक्ति ब्लास्टिंग पैच पर मोबाइल फोन, किसी भी इलेक्ट्रिकल/इलेक्ट्रॉनिक डिवाइस, प्रतिबंधित सामान, नहीं ले जाएँगे।
4. फेस का निरीक्षण
   a) ब्लास्टिंग के लिए हर होल का निरीक्षण सावधानी पूर्वक करें।
   b) ब्लास्टिंग ओवरमैन और ब्लास्टिंग अधिकारी द्वारा फेस और फ्री फेस की दिशा को पहचान कर किया जाना चाहिए।
   c) सभी होल्स की गहराई और उपस्थिति, पैटर्न के अनुसार सुनिश्चित करें, यदि कोई होल अनुचित गहराई पा नहीं पाया जाता है, तो चार्जिंग शुरू करने से पहले ड्रिलिंग पूरी कर ली जाएगी।
   d) ब्लास्ट किए जाने वाले पैच के ऊपर कोई भी लूज कोल या ओबी (बोल्डर) उपस्थित नहीं रहना चाहिए।
   e) किसी unauthorized व्यक्ति को ब्लास्टिंग पैच में प्रवेश को रोकने के लिए पैच के प्रवेश स्थानों पर लाल झंडों और डेंजर स्ट्रिप से घेराबंदी किए रहना चाहिए।

खान प्रबंधक
पकरी बरवाडीह कोल माइनिंग प्रोजेक्ट
एनटीपीसी लिमिटेड
Sl.No. - SOP/BO/45
सुरक्षा से कोई समझौता नहीं !

The SOP for blasting and drilling operations has been distributed, and awareness has been raised among the relevant personnel. These SOPs are written in Hindi and provided in a pocket-sized booklet, which also contains employee details encoded in a QR code at the back because of which the booklet functions both as SOP as well as an ID card.

This approach will be rolled out to all personnel deployed in the mine in a phase wise manner.

Inspection for MSA

Inspection of PBCMP for the **Mine Safety Award (MSA)** was done by the inspection team, accompanied by the DMS Mining. The inspection team received a warm welcome from the mining officials and Safety Committee members with a momento. In Safety Briefing Room, they were briefed regarding mine safety precautions and shown a video featuring PBCMP women operators, along with a presentation highlighting the best practices implemented in the mine.

The inspection team appreciated all the efforts made by our team, including various IT initiatives undertaken to enhance safety standards in the mine.

3rd Prize to PBCMP at MSA

The Pakri Barwadih Coal Mining Project (PBCMP), was recognized at third position for its exemplary mine safety standards in the Mine Safety Awards.

This accolade highlights the project's dedication to maintaining a secure and efficient mining environment.

MINES SAFETY AWARD - 2024

Third Prize

Category : Coal Aboveground Large

This certificate is proudly presented to

PAKRI BARWADIH COAL MINING PROJECT, NTPC LTD.
M/S NTPC
for the outstanding performance
during the year – 2023

Organised by : All India Mines Safety Association
under the Aegis of DGMS

Shri Prabhat Kumar
DG, DGMS &
Patron, AIMSA

Shri P.M. Prasad
Chairman, CIL &
Organiser, AIMSA

New Instant Recognition Token

On the auspicious occasion of MSA inspection, the DMS Mining & team unveiled a new token of appreciation for the Safety Star, which was subsequently distributed among the mine workers in recognition of their exemplary commitment towards safety in their work places.

Training for Audit at IIT ISM

A team participated in the **Safety and Health Management System Audit** Training program conducted at IIT ISM, Dhanbad.

Different senior officials from all coal mining projects actively participated in the training program. Successful training program was completed for two number of batches in this quarter. As part of the practical training, a visit to nearby mine was also organised.

Sitting (L to R) : S/Shri: Satyendra Kumar, Rakesh Ranjan, Rajendra Prasad, Dayashankar Ojha, Prof. Sagar Pal (Dean R & D), Prof. R. M. Bhattacharjee (Coordinator), Prof. Devi Prasad Mishra (HOD), Neeraj Gautam, Manish Kumar, Umesh Kumar, Chebrolu Chenna Rao.

Standing (L to R) Ist Row : S/Shri: Rajeev Ranjan, Abhishek Kumar, Anuj Kumar Sinha, Shashi Kant, Praveen Kachhap, Dr. Anand Prakash, Sunil Kr. Choudhary, Rajesh N. Kulavi, Deepak Kumar, Ramdeo Prasad, Vishal Sharma, Kamlesh Prasad, Rahul Kumar, J Bhaskar Mahadeo.

Standing (L to R) IInd Row : S/Shri: Mukesh Kumar, Badri Madhu, Bijay Kumar Singh, Rajesh Ranjan, Kaarmegan N, Arvind H, Sandeep Shukla, Kanhaiya Kumar, Alok Bharti.

Fire Safety & Rescue Training

A fire training, conducted by an external party (EHS World, Nagpur) from September 7 to September 9, 2024, which involved approximately 35 nos. of participants and included both classroom instruction and practical field demonstration.

The session provided comprehensive awareness on all components of the fire tender and its usage, essential fire-related safety instructions and Emergency Response Plan (ERP). Additionally, rescue training was ensured for all participants.

Safety Awareness

Awareness campaigns using projectors are regularly conducted at key locations like Workshop, Time Office and other key areas. These sessions are aimed at educating employees about the specific hazards they may encounter in their roles.

By leveraging audio-visual presentations, workers gain a clear and engaging understanding of the risks related to their jobs, helping them visualize potential dangers and grasp the importance of safety protocols.

In addition to these awareness programs, family counseling for operators are being conducted at regular intervals.

MINE AUDIT

General Inspection by DDMS Electrical

PBCMP initiated a comprehensive inspection of all electrical installations and equipment within the mine, starting on September 23, 2024.

This inspection was conducted by Sh. Malay Jena, Deputy Director of Mines Safety (DDMS), Electrical. During the inspection, the DDMS assessed various components, including wiring, circuit breakers, transformers and safety devices. This proactive approach helps in detecting potential failures before they occur.

MINE AUDIT

Audit by DDMS Mechanical & MIPMAC Team

The comprehensive inspection of PBCMP was done, which included inspection of machinery conducted by the Deputy Director of Mines Safety (DDMS) Mechanical, and thorough inspection by Multi-disciplinary Inter Project Mine Audit Committee (MIPMAC) for identifying and addressing any deficiencies.

These inspections are designed to ensure the safe and efficient mining operations while also resolving potential safety and operational shortcomings.

Workshop At Its Best !

Gas cylinder storage

Workshop at PBCMP is implemented with a robust system for proper storage of gas cylinders along with with clear guidelines and safety protocols, which are prominently displayed. Proper storage and handling of gas cylinders are ensured as a crucial activity to prevent accidents and ensure a safe working environment.

Racking of Inventories

Through systematic arranging of items on racks are ensured. It becomes much simpler to locate and access materials when needed, reducing downtime and increasing productivity.

This method also helps in maintaining an orderly workspace, ensuring that inventory is stored safely and efficiently. Proper racking can prevent damage to materials and improve inventory management, making it easier to keep track of stock levels and reorder supplies as per requirement.

Workshop At Its Best !

Well Developed Workshop

A well-developed infrastructure that provides all the basic requirements for the safe and easy maintenance of various types of machinery. Adequate lighting, ventilation, and ergonomic workspaces are key components that contribute to a safe environment. Additionally, organized storage for tools and parts, along with clearly marked pathways and safety zones, ensures that maintenance activities can be carried out smoothly and without unnecessary hazards. This type of infrastructure not only enhances the safety and productivity of the maintenance process but also extends the lifespan of the machinery by ensuring that all maintenance are performed correctly and regularly.

Workshop At Its Best !

Well Developed Laboratory

A well-maintained laboratory for sampling and analyzing various types of oils, such as diesel and hydraulic fluids, plays a critical role in ensuring the quality and performance of these essential materials.

For Emergency Situation

An emergency assembly point with the contact numbers of all necessary personnel are displayed in the workshop, which is an essential aspect of workplace safety. This setup ensures that in the event of an emergency, all workers know exactly where to go and whom to contact for immediate assistance.

Workshop At Its Best !

Safety Awareness Banners

Banners with various do's, don'ts and Standard Operating Procedures (SOPs) are displayed at strategic locations to increase awareness among workers. These visual reminders help to reinforce safety protocols, best practices, and guidelines, ensuring that everyone in the workplace are informed and mindful of the correct procedures.

These initiatives help us to create a culture of safety and compliance, where workers are continuously reminded of the importance of following established procedures.

Waste Disposal Management

The use of properly designated Dustbins for different types of waste is a great way to maintain cleanliness and ensure proper waste disposal. By having separate bins for various types of waste such as recyclables, organic waste, and hazardous materials, it becomes easier to manage and dispose the waste accordingly.

INAUGURATION OF NEW INFRA

New Infra Added to Mine

On 27.09.2024, inauguration of the new infrastructure at the Mine Pit Office was done by the Director (Fuel), who was accompanied by the Regional Executive Director (RED) and other Senior Management.

To commemorate the occasion, a plantation drive was also organized as part of this auspisious ceremony.

INDEPENDENCE DAY

Celebration At Mine Pit Office

The 78th Independence Day celebration at PBCMP witnessed an active participation from all mining officials, contributing to the event's success.

Several individuals were recognized and rewarded for their outstanding performance throughout the year.

SWACHHATA HI SEWA CAMPAIGN AT MINE AREA

"A 'Swachhata Hi Sewa' campaign was organized at PBCMP across various locations as part of compliance with directives from the CCO, with all employees actively participating to promote cleanliness and community service."

COMMITMENT TOWARDS SAFETY

AS A COMMITMENT TOWARDS **PRIORITIZING SAFETY, WE HAVE IMPLEMENTED VARIOUS MEASURES TO ENSURE THE WELL BEING OF OUR WORKERS, INCLUDING REGULAR SAFETY TRAINING AND HAZARD IDENTIFICATION, RISK ASSESMENT & IT'S MANAGEMENT. HOWEVER, WE RECOGNIZE THAT THERE IS ALWAYS ROOM FOR IMPROVEMENT AND WE REMAIN COMMITTED TOWARDS IDENTIFYING AND ADDRESSING ANY POTENTIAL SAFETY HAZARDS TO MAINTAIN BENCHMARK SAFETY STANDARDS.**

TAKE CARE OF SAFETY, ELSE UNSAFE ACT WILL DOZE YOU DOWN !