



NATURE'S VOICE

CIRCULAR ECONOMY



LINEAR ECONOMY



Central Coalfields Limited

Mission LiFE

An India-led global mass movement
to nudge individual and community action
to protect and preserve
the environment.

Mission LiFE seeks to translate the vision of LiFE
into measurable impact.

It is designed with the objective to mobilise
at least one billion Indians and other global citizens
to take individual and collective action
for protecting and conserving the environment
in the period 2022–28.

Within India, at least 80 percent of all villages
and urban local bodies are aimed
to become environment-friendly by 2028.



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P M Prasad

Chairman-cum-Managing Director
Central Coalfields Limited

As we approach World Environment Day, I wanted to take a moment to reflect on the significance of this day and the responsibility we all share to protect and preserve our planet. A dedicated day to remember our responsibilities towards the earth. A day to mark importance of diverse life forms for well being of humanity and it also reminds us of our duty to safeguard the environment and reduce the loss of biodiversity.

The theme for this year's World Environment Day is "Solution to Plastic Pollution." It serves as a reminder that the health of our environment is interconnected with our own well-being. At this critical juncture, when our planet faces numerous environmental challenges, it is essential for us to come together and make a collective effort to safeguard the environment for future generations. As a company, we have a crucial role to play in this endeavor.

I urge each and every one of us to embrace sustainable practices in both our personal and professional lives. Let us minimize our ecological footprint by reducing waste, conserving resources, and adopting eco-friendly alternatives. Small changes in our daily habits can make a significant impact.

Furthermore, let us continue to prioritize environmental consciousness in our operations and decision-making processes. We must explore innovative solutions, invest in green technologies, and strive to minimize our environmental impact throughout our value chain.

As we approach World Environment Day, I wanted to take a moment to reflect on the significance of this day and the responsibility we all share to protect and preserve our planet. A dedicated day to remember our responsibilities towards the earth. A day to mark the importance of diverse life forms for the well being of humanity and it also reminds us of our duty to safeguard the environment and reduce the loss of biodiversity.

Imagine if trees gave off Wi Fi signals, how many trees we would have planted by now on this earth? Probably, we wouldn't need to save the planet, that itself would have changed the way the world works. Instead. they only produce oxygen which helps us breathe and live. But truly, we are living on this planet today as if we have another planet to go to later.

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Furthermore, let us continue to prioritize environmental consciousness in our operations and decision-making processes. We must explore innovative solutions, invest in green technologies, and strive to minimize our environmental impact throughout our value chain.

As our goal with Mission LiFE is to integrate sustainability into every aspect of our operations. As part of Mission LiFE, we will implement a comprehensive sustainability strategy that encompasses various areas. This includes transitioning to renewable energy sources, adopting circular economy principles, promoting responsible consumption and production, and enhancing waste management practices. We will also prioritize the well-being of our employees, fostering a culture of sustainability and providing opportunities for growth and development.

I encourage each of you to embrace the principles of Mission LiFE in your day-to-day work. Look for ways to incorporate sustainable practices, whether it's reducing paper waste, conserving energy, or advocating for environmentally friendly solutions. Your actions, no matter how small, can make a significant impact when multiplied by the efforts of our entire team.

Remember, Mission LiFE is not just a corporate initiative; it is a mindset and a commitment to making a positive difference in the world. I have full confidence in our collective abilities to drive change and lead by example. Let us inspire others to join us on this journey towards a more sustainable future. The choices we make today will shape the world we live in tomorrow. Together, we can beat plastic pollution, combat climate change, protect biodiversity, and ensure a brighter future for all.

On World Environment Day, let us renew our commitment to environmental stewardship. Let us inspire others through our actions and encourage them to join us in creating a sustainable and thriving planet.

Thank you for your dedication and unwavering support to our shared mission of environmental sustainability. Together, let's make every day an environment day.





Ram Baboo Prasad

Director Tech. (Operation)
Central Coalfields Limited

World Environment Day is one of the biggest global events that has mobilized nations towards sustainable development since 5th June 1973. It sensitizes us and remind us of the necessity to conserve biodiversity and importance of environment management.

Environment is a blanket which is to be delicately woven with economic growth & development. World Environment Day is an initiative and a greater responsibility towards a sustainable development. The new dream of 1 billion tonne and more coal throws a greater challenge to protect and safeguard environment. A lot is yet to be addressed in turning green innovations into reality while strategically achieving the new goals.

World Environment Day is an occasion which brings together millions of people across the country for awareness and action for the environment. This year, the Ministry of Environment, Forest and Climate Change, Government of India envisages to celebrate the World Environment Day 2023 with a thrust on the Mission LiFE. The concept of LiFE, i.e., Lifestyle for Environment was introduced by the Prime Minister of India, at the World Leaders' Summit in Glasgow, when he gave a clarion call to rekindle a global pursuit to adopt sustainable lifestyle and practices. Mass mobilisation across the country on LiFE is requirement of the time. We're often put in situations where we think of giving back to our immediate surroundings or at least, have this innate desire to be aware of the environmental changes that affect the globe.

The Global theme for World Environment Day is "Solution to Plastic Solution "under the campaign Beat Plastic Pollution.

Natural resource depletion due to human activities have taken place more rapidly in the past 50 years than at any time in human history, leading to continued deterioration of the environment. We still have some time to transform the challenges of limited and fast depleting resources into opportunities that will enhance the quality of life for all without increasing environmental degradation, and without compromising the resource needs of future generations.

Every individual has a responsibility to protect the environment and reduce the rate of depletion of natural resources like water , fossil energy and forest. By becoming more conscious of the ecological impact of our actions and environmental consequences of the personal choices we make, we can become conscious agents of change towards a sustainable life style.

I heartily congratulate the team members of Environment Department of CCL on bringing out the issue of magazine on World Environment Day.



B Sairam

Director Tech. (P&P)
Central Coalfields Limited

The World Environment Day is a wake-up call for us to cherish nature and care for it because that is the only way we can live sustainably in harmony with nature.

It is a pleasure to embrace a new chapter in our journey towards sustainability and a brighter future for all, the launch of Mission LiFE (Living in a Sustainable Future for Everyone), an ambitious sustainability initiative. Mission LiFE is not merely a program; it is a transformational journey that will require the collective effort and unwavering dedication of every individual in our organization. The objective is clear – to align our business practices with sustainable principles, seeking innovative solutions and fostering a culture of sustainability.

With Mission LiFE, we will focus on several key areas like reduction in carbon footprint through energy efficiency measures, adoption of renewable energy sources, optimizing resource utilization and promoting a culture of sustainability. Let us infuse this into our everyday decisions, from the materials we use to the way we communicate and collaborate. Each action, no matter how small, will contribute to our collective success. Together, we can become agents of change, inspiring others within our industry and beyond to join the movement towards a more sustainable future. Let us seize this opportunity to lead, innovate, and demonstrate our dedication to making a positive impact on our planet.

CCL is committed to continue its journey to improve biodiversity, mitigate climate change, enhance environmental care, optimize resource and energy efficiency, solid waste utilization, water and energy conservation and significantly reduce plastic usage for improving the quality of lives.

The global theme for this year's World Environment Day : "Solutions to Plastic Pollution" under the campaign # Beat Plastic Pollution - If you can't reuse it, refuse it. Our aim should be "Break up with Plastic" while raising community awareness on replacing non-recyclable plastics with alternatives.

The need of the hour is to get people to act. Appeal to the most natural instinct of every living creature ... self-preservation. Save the environment if you want to save yourself.

I thank all for the passion towards Mission LiFE which is our shared endeavour and I am confident that, united, we will create a lasting legacy of sustainability.

I congratulate Environment department for publishing "Nature's Voice". It is a testament to creativity, passion and hard work that went into its creation. Every aspect of the magazine reflects the dedication and commitment tireless efforts of the entire team.





Pawan Kumar Mishra

Director (Finance)
Central Coalfields Limited

I am delighted that Environment Department of CCL is launching its newsletter "Nature's Voice", a mark of CCL's commitment to communicating their efforts to create awareness regarding sustainable environmental development practices among the stakeholders of coal mining. World Environment Day earmarks the importance of our planet earth and also to have the sense of responsibility to conserve it. This year, this day takes an added significance as it marks the 50th anniversary of World Environment Day.

This year's theme highlights the need to beat plastic pollution as part of the wider global drive towards a greener, healthier planet. Global plastic production has risen exponentially in the last decades. It now amounts to some 400 million tonnes per year. Not only that, microplastics find their way into the food we eat, the water we drink and even the air we breathe. Many plastic products contain hazardous additives, which may pose a threat to our health. World Environment Day 2023 showcases how industries and individuals are learning to use the material more sustainably; offering hope that one day, plastic pollution will be history.

This year, Ministry of Environment, Forest and Climate Change, Government of India contemplates to celebrate the World Environment Day 2023 with a special focus on the Mission LiFE, a concept which was introduced by the Hon'ble Prime Minister, India. Mission LiFE envisions on individual's behavioral change by adopting mindful and deliberate habits. The Mission plans to foster a global chain of individuals, namely 'Pro-Planet People', who will have a shared commitment to promote environmental friendly practices.

Today, there is a need for all of us to come together and take LiFE Style for Environment as a campaign. As a company that has a synergistic relationship with the environment, it is our onus to safeguard it. CCL's commitment to being an eco-friendly miner is evident in our pursuits towards environmental conservation. I feel very honored to inform you that CCL's operational activities align with the Sustainable development practices. However, with Mission LiFE, we will aim more stringent mechanism for the implementation of these mining practices.

I firmly believe that besides collective activities, individual actions taken towards a common purpose can also cumulatively create enormous effects. Mission LiFE is the call to action for each and every one to save the planet. It is the mantra to reverse the historical and cultural wrongs wreaked upon the environment.

On this Day, let us reaffirm our commitment and resolve to ensure a cleaner and safer environment which directly affects our quality of life. A number of activities have been planned by the Environment Department of CCL to inculcate sense of responsibility among all personnel to preserve our precious environment. I am confident that our CCL family will put up dedicated efforts to make these events a success.



Harsh Nath Mishra

Director (Personnel)
Central Coalfields Limited

It is our utmost priority that we safeguard the health of our environment, the richness and diversity of life on planet earth, its ecosystems and its finite resources. We are demanding too much from our earth to maintain our lives but the earth's natural resources cannot keep pace with those demands. To overcome this crisis and for promoting progress on the environmental dimensions of the Sustainable Development Goals, World Environment Day, has become an important platform and is celebrated annually on 5th June. This year environment day celebration has been associated with the theme "Solution to plastic pollution."

I understand that conserving environmental resources requires a multifaceted approach. I acknowledge that sustainable growth is possible only by thoughtfully integrating economic, environmental and social parameters into our growth strategy. I feel honored to inform you that CCL has always emphasized the importance of protecting the environment and thus has always ensured that it remains fully committed to coal mining in a manner that is in line with sustainable development. At CCL, we stand focused to maintain world-class practices for integrating sustainability into every aspect of mining. Year after year, we implement innovative approaches, technologies and solutions that bolster our resource planning, while giving due consideration to the environment and society.

This year, 'Mission LiFE' campaign has been started by Government of India to adopt an environment-friendly lifestyle in day to day work. Mission LiFE program introduced by Hon'ble Prime Minister focuses on seven key areas - energy conservation, water conservation, reduction of single-use plastics, waste-free eating habits, waste management, healthy living, and e-waste reduction. This Mission is launched intending to transform the adaptation and mitigation strategies of fighting against climate change into a public movement.

I urge CCL community to adapt environment-friendly habits to safeguard the ecosystem as per the principles of Mission LiFE. The Company has been marching on the path of moving from being a traditional coal miner to an ecofriendly miner with global standards. I am confident that we will be able to outperform the current margins and grow sustainably with the implementation of Mission LiFE.

I congratulate the team at the Environment department for their endeavor to publish the newsletter "Nature's Voice" which will bring awareness and knowledge base among the stakeholders of coal mining about the Environmental issues and developments. Further, I wish the newsletter "Nature's voice" a grand success. Last but not the least, I would also like to thank all the employees of CCL who put in their hard work to render their service towards the nation throughout year after year tirelessly.





Pankaj Kumar

(I.R.T.S)

Chief Vigilance Officer
Central Coalfields Limited

World Environment Day is the United Nations most important day for encouraging worldwide awareness and action for the protection of our environment. Since it began in 1973, it has grown to become a global platform for public outreach that is widely celebrated in over 100 countries.

World Environment Day, commemorated every year on 5th June, is the “people’s day to remind us that humans around the world are an integral part of the environment and therefore we should take ownership of the environment and actively engage in the protection and do something for our earth. That “something” can be focused locally, nationally or globally; it can be a solo action or involve a crowd. Everyone is free to choose. Thus, we have the World Environment Day which serves as a reminder to protect the environment at all costs. All the resources of nature from forests to oceans and soil to air, we must conserve.

The global theme this year asks for “Solution to Plastic Pollution” and speaks to beat plastic pollution, and urges that if you can’t reuse it, refuse it. The theme urges governments, industries, communities and individuals to come together and explore sustainable alternatives and urgently reduce the production and excessive use of single-use plastic polluting our oceans, damaging marine life and threatening human health.

On the occasion of World Environment Day, it is essential for all to realize that every little deed matters when it comes to saving the environment. No matter how small a step you are taking to lead a greener lifestyle, it does make a difference. Because, if everyone starts doing little deeds one by one, it will turn into something big. These little deeds will make one realize how wholesome the life will become. It is not always about the money and luxury, the little fulfilling things and change in habits can also prove to be very effective.

LiFE was introduced by Prime Minister of India—at COP26 summit in Glasgow as a mass movement for “mindful and deliberate utilization, instead of mindless and destructive consumption” to protect and preserve the environment. It aims to nudge individuals and communities to practice a lifestyle that is synchronous with nature and does not harm it. Those who practice such a lifestyle are recognised as Pro Planet People

To sum it up, always remember that the gifts and blessings which nature endows on us are priceless. It is rather essential to conserve them all for a better future and life for all.

CCL ATTAINS NEW HEIGHTS UNDER THE ABLE LEADERSHIP OF Sri P M Prasad, Chairman-Cum-Managing Director, CCL

A CMD who has always believed in the philosophy that Company's physical as well as financial growth and environmental protection can always go hand in hand and accordingly endeavoured to facilitate and promote various activities taken up by the company for environmental sustainability.



Greatest technology in the world is the Humane Approach towards all the stakeholders of the Company.

Coming together is beginning. Keeping together is progress. Working together is SUCCESS



Simplicity, Humbleness, Integrity, Intelligence, Kindness, Politeness, Hard work with a smiling face and determination are the ingredients for success in every field.

Sustained success can only be achieved through active participation of our company. Always keep sustainable environment the top most priority.

**CCL achieves all time high Physical and Financial performance during 2022-23.
Production: 76.09 MT, OBR: 106.60 Mcum, Off take: 75.02 MT, Productivity: 10.22 Te**

On the Environmental and Societal front activities like Plantation on 178 Ha, Development of 09 Eco Parks, Pisciculture, Mine water utilization for community and irrigation use have been taken up for sustainability in the command areas of CCL.

Editorial

The 5th Day of June every year is marked as World Environment Day (WED) by the United Nation Environment Programme (UNEP) and held annually since 1973. It is the United Nation's principal vehicle for encouraging worldwide awareness and action for the protection of our environment. It has been a flagship campaign for raising awareness on emerging environmental issues from marine pollution, human overpopulation, and global warming, to sustainable consumption and wildlife crime. World Environment Day is celebrated for encouraging awareness and action for the protection of the environment.

WED has grown to become a global platform for public outreach, with participation from over 143 countries annually. Each World Environment Day is organized around a theme that focuses attention on a particularly pressing environmental concern.

Major corporations, NGOs, communities, governments and celebrities worldwide adopt the theme every year to advocate environmental causes. Last year's theme was "Only One Earth", with the focus on "Living Sustainably in Harmony with Nature". World Environment Day 2022 was hosted by Sweden.

The theme for World Environment Day on 5 June 2023 will focus on solutions to plastic pollution under the campaign #BeatPlasticPollution. World Environment Day 2023 is hosted by Côte d'Ivoire and supported by the Netherlands and will focus on solutions to plastic pollution.

Plastic Pollution is a global emergency affecting every aspect of our lives. It is polluting the water we drink, the food we eat and even the air we breathe. It is destroying our beaches, oceans and the whole marine eco-system. India will be leading the drive to save our oceans and planet.

The Hon'ble Prime Minister of India, Shri Narendra Modi launched Mission LiFE at the Statue of Liberty, in Ekta Nagar, Gujarat on October 20, 2022. The objective of the mission is to promote concepts that are integral to sustainable lifestyles and thus build a community of pro-planet people. The aim of the outreach is to sensitize people about the impact of behavioural change on the environment.

CCL celebrates World Environment Day every year with full conviction and responsibility. Various competitions are organised for school students and employees on the occasion of WED and the participants and winners are recognised by the CMD and functional directors of the company on the official ceremony on 5th June. Oath ceremony, Cleanliness drive, Plantation drive, banners, pamphlet distribution etc. are some of the other campaigns held on the occasion of WED for spreading awareness among the employees and locals about the true significance of this day.

World Environment Day 2023 is a reminder that people's actions on plastic pollution matters. The steps taken by CCL to tackle plastic pollution are the consequence of this action. It is time to accelerate this action and transition to a circular economy. It is time to #BeatPlasticPollution.

With best wishes
Editorial Team



PLASTIC MENACE: BATTLING A GROWING ENVIRONMENTAL CRISIS (#BEAT PLASTIC POLLUTION)

In a historic decision at the fifth United Nations Environment Assembly in March 2022, all 193 UN Member States decided to end plastic pollution. With negotiations on a binding legal agreement by 2024 now underway, the question is how to realise that goal.

The world is being inundated by plastic. More than 400 million tonnes of plastic is produced every year, half of which is designed to be used only once. Of that, less than 10 per cent is recycled. An estimated 19-23 million tonnes end up in lakes, rivers and seas. Today, plastic clogs our landfills, leaches into the ocean and is combusted into toxic smoke, making it one of the gravest threats to the planet.

India is one of the world's largest producers of plastic waste, generating an estimated 3.5 million tonnes of plastic waste annually. Only about 30% of this waste is recycled, while the rest ends up in landfills, waterways, and the environment.

The government of India has taken some steps to address the problem of plastic pollution. In 2022, the government banned the production, sale, and use of single-use plastic items such as straws, bags, and cups. However, the ban has been met with challenges, and it is unclear how effective it will be in reducing plastic pollution.

Industry and government both have a significant role to play in controlling the plastic pollution issue. Industry have a responsibility to ensure their products are developed and designed in such a way that they minimize plastics and can be effectively reused and recycled in the countries and locations in which they will be sold. This requires an innovative approach to product design, which is currently lacking across many consumer goods. In many instances, government policies and regulations will be the only option to enact industrial and behavioural change, for example bans, taxes or controls on the manufacture or sale of specific items.

It is clear that a single approach alone will not be sufficient to prevent plastic waste reaching the environment, or to reduce the amount that is already there. Coordinated action and collaboration is therefore essential between local communities, academics, industry, governments and NGOs to tackle the issue from a range of different angles and perspectives.

Some of the ways forward for management of plastic waste in India are:

- ▶ Reduce the use of single-use plastics. This can be done by using reusable bags, bottles, and straws.
- ▶ Recycle plastic waste. This can be done by setting up collection centers and recycling plants.
- ▶ Compost plastic waste. This can be done by using a home composting system or by taking plastic waste to a composting facility.
- ▶ Educate the public about the problem of plastic pollution. This can be done through school programs, public awareness campaigns, and social media.
- ▶ Enforce laws and regulations on plastic waste management. This can be done by increasing fines for littering and illegal dumping of plastic waste.

LIFESTYLE FOR ENVIRONMENT (LIFE): FROM MINDLESS CONSUMER TO MINDFUL CITIZEN

Humans make hundreds of thousands of decisions during the course of their lives. For the lucky among us, those decisions will vary wildly. What food to eat? What house to live in? How to get to work in the morning? What type of clothes to wear? How to spend my spare time? The list is endless. No matter how we choose to answer these questions, the lifestyles we end up living or, in some cases, are forced to live have a profound impact on our planet, affecting everything especially the health of our environment.

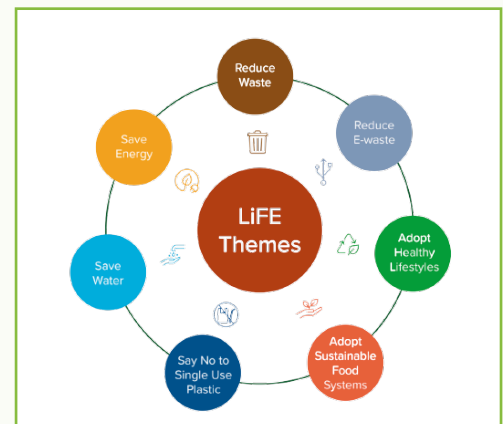
In this scenario, the concept of sustainable lifestyles has been gaining prominence across the world, especially in India. With sustainable living being rooted in Indian culture, India has become a flagbearer for the cause as evident by the launch of the Lifestyle for the Environment (LiFE) mission.

Meaning behind the concept of 'Lifestyle for the environment':

The concept of Lifestyle for the Environment (LiFE) was introduced by the Indian Prime Minister at 26th United Nations Climate Change Conference (COP26) in Glasgow in 2021. It called upon the global community of individuals and institutions to drive LiFE as an international mass movement towards “mindful and deliberate utilization, instead of mindless and destructive consumption” to protect and preserve the environment.

LiFE puts individual and collective duty on everyone to live a life that is in tune with Earth and does not harm it. Those who practice such a lifestyle are recognized as Pro Planet People (P3). Through the P3 community, LiFE seeks to create an ecosystem that will reinforce and enable environmentally friendly behaviors to be self-sustainable. The underlying philosophy of life is rooted in India’s ancient saying that Nature protects if she is protected.

Mindful and deliberate utilization, promoted under the concept encourages- Responsible Consumption by taking only as much as is needed, using products to the end of their lives. Living in Harmony with Nature by practicing the philosophy of ‘Vasudhaiv Kutumbkam’ (the World in One Family) and living a life with compassion for all living beings. Sustainable Resource Management to reduce over-consumption and promote equitable access to resources. Coexistence and Cooperation among countries and communities through the promotion of science and innovation, knowledge exchange, dissemination of best practices, and conservation of traditional knowledge systems.



“A pond equals ten wells, a reservoir equals ten ponds, while a son equals ten reservoirs, and a tree equals ten sons.” ~ Matsya Purana

As a global programme, Mission LiFE envisions three core shifts in our collective approach towards sustainability

Change in Demand (Phase I): Nudging individuals across the world to practice simple yet effective environment-friendly actions in their daily lives.

Change in Supply (Phase II): Changes in large-scale individual demand are expected to gradually nudge industries and markets to respond and tailor supply and procurement as per the revised demands.

Change in Policy (Phase III): By influencing the demand and supply dynamics of India and the world, the long-term vision of Mission LiFE is to trigger shifts in large-scale industrial and government policies that can support both sustainable consumption and production.

Other features of the Mission:

- ▶ Global Call for Ideas and Papers: Ideas and research proposals are invited from leading global scholars on how environment-friendly actions can be adopted by individuals, communities, and institutions in a measurable and attributable manner.
- ▶ LiFE Compendium of Global Best and Traditional Practices: NITI Aayog and MoEF&CC, in partnership with United Nations India, will create a comprehensive repository of traditional and contemporary best practices from around the world that facilitate the adoption of environment-friendly lifestyles by individuals and communities.
- ▶ Partnering with other countries MoEF&CC and the Ministry of External Affairs, with the support of NITI Aayog,
- ▶ Proposed International LiFE Day: By demonstrating the impact of sustainable lifestyles, Mission LiFE will endeavor to mobilize the global community to adopt International LiFE Day.

India's environment-friendly culture and traditional practices:

- ▶ Use of Plant-based biodegradable utensils and clayware (kulhad, matka etc.) for cooking and serving purposes.
- ▶ Minimizing electricity consumption through handwashing and sun-drying of clothes and utensils.
- ▶ Water harvesting techniques contextual to local conditions such as step wells of Gujarat and Rajasthan, the underground tanks of Tamil Nadu, the check dams of Rajasthan and the Zabo system of Nagaland .
- ▶ Sustainable dietary preferences: plant-based foods and water conserving and climate resilient millets.
- ▶ Upcycling and reuse: When a garment or cloth outlives its function, it is converted into a new product such as bags or even used for dusting purposes.



“Sustainable development is the development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”

~ Gro Harlem Brundtland



SUSTAINABLE INITIATIVES IN PROJECTS OF CCL

CCL has adopted state-of-the-art eco-friendly technologies which neutralizes the impact on the environment due to mining. The major impacts of Coal mining operations and mitigative measures undertaken are shown below:

Impacts on Land Environment:

- ▶ Coal mining often involves clearing large areas of land, including forests and vegetation, to access coal seams. This deforestation disrupts ecosystems, destroys wildlife habitats, and contributes to the loss of biodiversity.
- ▶ The removal of topsoil during mining operations exposes underlying soil to erosion by wind and water, leading to the loss of fertile soil, reduced land productivity, and changes in the landscape.
- ▶ UG mines allow to extract deeper deposits of coal and have lesser impact on land. But Underground coal mining, particularly longwall mining, can cause land subsidence.

Impacts on Air & Noise Environment:

- ▶ Coal mining process releases a number of pollutants into the air including PM2.5, PM10 SO2 and NOX in the air which can cause respiratory problems and contribute to air pollution
- ▶ Coal mining operations contribute to CO2 emissions through activities such as blasting, drilling, and transportation of coal. In addition to CO2, coal mining may also release methane (CH4), another potent greenhouse gas, especially during underground mining operations.
- ▶ Use of explosives cause noise & vibration which may affect nearby human & faunal habitats.

Impacts on Biodiversity:

- ▶ Coal mining sometimes leads to displacement of people causing loss of livelihood, agricultural and homestead land of host communities
- ▶ Livestock suffers due to loss of pasture lands and forests. Coal mining activities, including infrastructure development and land clearing, may also create barriers and fragmentation in natural landscapes.
- ▶ Coal mining often involves the removal of vegetation and the destruction of habitats to access coal seams. This clearing of forests, ecosystems results in the loss of habitat for a wide range of plant and animal species.

Impacts on Water Environment:

- ▶ Coal mining often involves the extraction of coal from the deep down which may lower the water table. This dewatering can lead to a lowered water table in the surrounding area.
- ▶ Coal mining can lead to increased sedimentation and turbidity in water bodies. The removal of vegetation and soil during mining operations can result in erosion and the deposition of sediment into nearby rivers and streams.
- ▶ Mining activities, such as the construction of access roads, diversion of waterways, and the dewatering of mines, can alter natural water flow patterns.

“Plans to protect air and water, wilderness and wildlife are in fact plans to protect man.” ~ Stewart Udall

MITIGATING IMPACTS ON LAND & BIODIVERSITY

- ▶ Returning the land disturbed by mining to stable and productive post-mining land uses is fundamental to responsible environmental stewardship. This means that the activities like ecological reclamation of mined out land and overburden dumps, plantation in and around mines, avenue plantation, and restoration of flora and fauna must go side by side along with mining with an aim to leave a lighter mining footprint after the closure of mining.
- ▶ Till date approximately 5004.80 Ha of land has been biologically reclaimed (which involves reclamation of mined-out area, OB dump, avenue plantation and block plantation) in CCL. Plantation of more than 90 Lakhs saplings through State Forest Department has been done in command area of CCL.
- ▶ In CCL, a Kayakalp Vatika has been developed over an area of 1.0 Ha of the backfilled and reclaimed land at Piparwar OCP. In addition, development of Nine Eco parks at B&K, Dhori, Kathara, Barkakana, Barka-Sayal, Hazaribagh, NK, Piparwar and Amrapali at an approximate cost of Rs. 63 Crores in a total around of 120 Ha is also being undertaken.
- ▶ In FY 2023, an area of 1.74 ha has also been identified for the establishment of Miyawaki Plantation in Rajrappa area.
- ▶ Land Reclamation Monitoring of OC mines of CCL coalfields is being carried out regularly based on high resolution satellite data. The projects under Land Reclamation monitoring are categorized under two categories, wherein major opencast project producing more than 5 mcm (Coal + OB) per annum are monitored annually whereas projects producing less than 5 mcm (Coal + OB) are monitored in phase wise manner at an interval of three years.



View of Undergoing Technical Reclamation at Ashok OCP

“Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has.” ~ Margaret Mead

MITIGATING IMPACTS ON LAND & BIODIVERSITY



View of Reclaimed Overburden Dump at KDH OCP



View of Green Belt Development (Three rows) near Amrapali OCP

“If humanity has to live for a long time, you have to think like the Earth, act as the Earth and be the Earth because that is what you are.” ~ Sadhguru

MITIGATING IMPACTS ON LAND & BIODIVERSITY



View of Kayakalp Vatika at Piparwar OCP



View of Plantation over embankment at Rohini OCP

“A nation that destroys its soils destroys itself. Forests are the lungs of our land, purifying the air and giving fresh strength to our people.”~ Franklin D Roosevelt

MITIGATING IMPACTS ON AIR & NOISE ENVIRONMENT

The air pollution is mitigated at the source of emission and during transportation of coal. The mitigation measures undertaken at projects of CCL are given below:

- ▶ Introduction of surface miners for coal mining instead of shovel dumper system. Surface miners have eliminated the need of drilling, blasting and crushing of coal. Further all mega projects will also deploy environmental friendly technology of coal winning. At present 15 numbers of surface miners are deployed in mines of CCL.
- ▶ Drilling is another major source of dust in mines and around 112 numbers of drills in CCL are provided with dust extractors /wet drilling mechanism.
- ▶ All the opencast mines have large capacity mobile sprinklers. 61 mobile sprinklers of 28 KL capacity are deployed and now CCL has taken an initiative to procure only mist type of sprinklers which are technologically superior to normal sprinklers, 22 mist type sprinklers of 28 KL capacity have already been deployed.
- ▶ Provisioning of Wind Breaking System, Fixed Sprinklers & Avenue Plantation, Dust screens along railway sidings are now being erected to protect the receptors from dust.
- ▶ 27 numbers of trolley mounted Fog canons have been deployed for dust suppression.
- ▶ Installation of 28 numbers PM10 analyzers at different Railway Sidings complex and 14 numbers of CAAQMS in the different areas for real time monitoring of Air Quality parameters with connectivity to Jharkhand State Pollution Control Board.
- ▶ Other measures i.e. distribution of personnel protective equipment like dust mask, ear plug etc. to the employees, covered truck during transportation etc
- ▶ Fortnightly monitoring of environmental parameters in all projects of CCL is being undertaken by NABL accredited laboratory of CMPDIL. About 6000 samples of Total Particulate Matter in Air , 6000 samples of PM2.5 in Air, 6000 noise samples , 2200 water samples (Surface water , Effluent Water and ground water quality) are analyzed every year.



View of Surface Miner in operation at Ashok OCP

There must be a reason why some people can afford to live well. They must have worked for it. I only feel angry when I see waste. When I see people throwing away things we could use.
 ~ Mother Teresa

MITIGATING IMPACTS ON AIR & NOISE ENVIRONMENT



Fog Cannon in operation at Amrapali OCP



View of Mist Type Water Sprinkler at Rajrappa OCP

“We must realize that when basic needs have been met, human development is primarily about being more, not having more.”~ from ‘The Earth Charter’

MITIGATING IMPACTS ON AIR & NOISE ENVIRONMENT



View of Wind Breaking System installed at Piparwar Railway Siding



View of CAAQMS system at Kathara Area

“Sooner or later, we will have to recognise that the Earth has rights, too, to live without pollution. What mankind must know is that human beings cannot live without Mother Earth, but the planet can live without humans.” – Evo Morales

MITIGATING IMPACTS ON WATER ENVIRONMENT

Major sources of water pollutants in coal mines are mine and workshop discharge, Runoff from OB dump & Coal stockyard and Water table disruption. The main mitigation and conservation measures are discussed below, in brief:

- ▶ Provision of Toe wall, Catch drain and sedimentation pond along the OB dump/Coal Stockyard in projects of CCL
- ▶ Rain water harvesting over building, through check-dams & mine sumps.
- ▶ Ground water level monitoring by installation of Piezometers & through wells in core & buffer zone of the projects.
- ▶ Wheel washing system and Zero discharge Effluent Treatment Plant at Workshop
- ▶ Surplus Mine water stored in the old abandoned mines and the discharge from mines in CCL command area is utilized by nearby 120 number of villages benefitting about 1,86,703 population.
- ▶ CCL has also identified a suitable pit site located of Giddi 'A' Colliery Pit Lake for inclusion in the Ramsar List. CCL has signed an MoU with Wetlands International South Asia at a cost of Rs. 18.29 Lakhs for assessing biodiversity and ecosystem services values of the proposed Ramsar Site at Giddi 'A' Colliery Pit Lake at Argada Area, CCL, Ranchi, Jharkhand, on 16.02.2023.



Proposed RAMSAR site near Giddi A OCP

If all mankind were to disappear, the world would regenerate back to the rich state of equilibrium that existed ten thousand years ago. If insects were to vanish, the environment would collapse into chaos. ~ E. O. Wilson

MITIGATING IMPACTS ON WATER ENVIRONMENT



Jute Netting near streams at Amrapali OCP



View of Settling Pond near toe of OB Dump at Amrapali OCP

“Our task must be to free ourselves ... by widening our circle of compassion to embrace all living creatures and the whole of nature and its beauty.” ~Albert Einstein

MITIGATING IMPACTS ON WATER ENVIRONMENT



View of Pisciculture at Karkatta C Block, N K Area



View of old void at Topa OCP which supplies water to nearby villages

*“What’s the use of a fine house if you haven’t got a tolerable planet to put it on.”
~Henry David Thoreau*

MEET THE EXTRAORDINARY ENVIRONMENTALISTS OF INDIA (THE INSPIRING STORIES EVERY INDIAN SHOULD KNOW)

(Swati Singh, Deputy Manager (Env), CCL HQ)

Tulasi Gowda

Tulasi Gowda is a septuagenarian tribal woman from Karnataka, who is called the Encyclopaedia of the Forest despite never having been given a formal education.

She starting planting trees at the age of 12 and has, till date, planted thousands of trees. She also has extensive knowledge of plants and animal species in the forest, which has earned her the title of “tree goddess” among her tribe, the Halakki Vokkaliga, who believe she speaks the language of the forest.

The Government of India awarded Gowda the Padma Shri award, the fourth highest award given to citizens of India.



Pappammal

Pappammal is an Indian organic farmer from Tamil Nadu. At the age of 109, she is argued to be the oldest farmer still active in the field. She is regarded as a pioneer in the agriculture field and is affiliated with the Tamil Nadu Agricultural University’s department of education.

The Government of India honored her in 2021, with the fourth highest civilian award of Padma Shri for her role in organic farming.



“We don’t have to engage in grand, heroic actions to participate in change. Small acts, when multiplied by millions of people, can transform the world.” ~ Howard Zinn

Jadav Payeng

He is an environmentalist activist and forestry worker from Majuli, popularly known as the “Forest Man of India”.

For several decades, he has planted and tended trees on a sandbar of the river Brahmaputra, which has turned into a forest reserve. The name of the forest is Molai forest, which was kept after him and is located near Kokilamukh in Jorhat, Assam, India. The forest encompasses an area of about 1,360 acres. He was honoured with the Padma Shri, the fourth highest civilian award in India, in 2015.



Afroz Shah

Afroz Shah is an Indian environmental activist and lawyer from Mumbai. He is best known for organizing the world’s largest beach clean-up project, which has grown into a movement that has inspired people around the world to clean up their surrounding environment.

In 2016, Shah was named by the United Nations as a Champion of the Earth for leading the clean-up of Mumbai’s Versova Beach. Inspired by Afroz Shah’s effort to clean beaches in Mumbai, the United Nations Environment Program launched the Clean Seas campaign globally. Prime Minister of India Hon’ble Narendra Modi praised Shah’s work for transforming Versova beach from filth and garbage to clean and beautiful during the radio programme ‘Mann ki baat’ on 28 May 2017.



“Only when the last tree is cut down, the last fish eaten, and the last stream poisoned, we will realise that we cannot eat money.” ~ Cree Indian Proverb

FROM WASTE TO GARDEN (Team Environment, Bokaro & Kargali Area)

Bokaro & Kargali Area popularly known as B&K Area is one of the fourteen areas of Central Coalfields Ltd. located in Bokaro District of Jharkhand .

In the month of April 2022, a small initiative, was taken to use the waste, scrap and disposed items from mines of B&K Area, in developing Garden at Guest House, Kargali. It is named 'Kachra Udyan'

The said initiative was kind of an experiment on small scale which is to be emulated at the proposed Eco-park and other parks in Kargali. It

can be considered as an effort to contribute to the sustainable development of mines and is one of the best examples of 3R (Reduce-Reuse-Recycle) Concept which is a sequence of steps on how to manage waste property.

The initiative has also been acknowledged by the team of Comptroller and auditor General of India which inspected the mines of CCL for the assessment of Environmental Impacts due to mining activities and its mitigation in Coal India limited and its subsidiaries.



NATURE'S GREEN SHIELD: HARNESSING CREEPER GROWTH TO COMBAT DUST POLLUTION IN TRANSPORTATION

(Gangaraju Vidyasagar, Deputy Manager (Env), CCL HQ)

As we strive for excellence in our mining operations, a ground-breaking solution has appeared on the horizon, allowing us to battle dust pollution in unprecedented ways. The use of creeper growth, combined with a sprinkling system, may be used as a game-changing dust control method for our coal transportation roads. It not only promises a cleaner and healthier environment but also enhances the aesthetic appeal of our mining sites, setting a new standard for sustainable mining practices.



Imagine our coal transportation roads adorned with lush green creeper plants, climbing effortlessly on specially designed wooden frame structures. This approach harnesses the raw power of nature to address one of our most pressing challenges – dust pollution. The result is not only an impressive shield against airborne particles but also a breath-taking transformation that encourages our operations and inspires admiration from all who witness it.

At the heart of this novel solution lies a meticulously constructed tunnel-like framework made of sturdy wooden frames that provide vital support to carefully selected creeper plants. These plants are chosen for their adaptability to our local climate, rapid growth rates, and remarkable dust-trapping capabilities. Their dense foliage and robust root systems act as a natural filter, capturing and immobilizing dust particles with unparalleled efficiency, drastically reducing airborne pollution in our mining environment. To amplify the effectiveness of this natural barrier, a fixed sprinkler system may be integrated into the structure.

Embracing this innovative strategy delivers more than just dust control – it enhances the very fabric of our mining operations. The lush foliage and brilliant colours create a visually captivating environment that boosts morale, fostering a sense of pride among our workforce. Beyond aesthetics, the root systems of these creeper plants play a critical role in stabilizing our soil, reducing erosion along the coal transportation roads, and curtailing the generation of dust from loose particles.

Simultaneously, the rich ecosystem fostered by the creeper growth supports local biodiversity, providing a thriving habitat for beneficial insects and small animals. By embracing this holistic approach, we exemplify our commitment to sustainable mining practices that promote a harmonious coexistence with the natural world.

As with any transformative endeavour, careful planning and consistent maintenance are essential for success. Regular watering, pruning, and monitoring of the plant health ensure optimal growth and sustained effectiveness in dust control. We must also remain mindful of selecting non-invasive creeper species in order to create a responsible and environmentally sensitive approach to our mining activities.

“The greatest threat to our planet is the belief that someone else will save it.” ~ Robert Swan



SOLAR: TOWARDS SUSTAINABLE RENEWABLE ENERGY

Currently, coal accounts for 70% of India's power generation, while solar is less than 4%. However, solar energy is likely to witness exponential growth and match coal's share in the Indian power generation mix by 2040 or earlier. As of now CCL has already installed 1.2475 MW of capacity in its command area. Target for Net Zero would be 424 MW as per FY 21-22 consumption. Work has been awarded for 20 MW in FY 2022-23. For FY 2023-24, it is planned to award work for 53.53 MW.



View of rooftop Solar Panels at Darbhanga House
CCL HQ

FIRST MILE CONNECTIVITY – ENVIRONMENT FRIENDLY EVACUATION

To minimise road transportation for evacuation of coal, CCL is committed to improve the mechanised coal transportation and loading system under FMC projects. Crushing, coal size and quick computer assisted loading are advantages of coal handling plants (CHPs) and silos with rapid loading systems.

Reduced manual intervention, precise pre-weighed quantity, quicker loading, and better coal quality are all benefits of FMC projects. Rakes and wagons will be more readily available if loading times are reduced. Less traffic on the roads means less pollution and diesel consumption.

Ministry of Coal has set a target to generate 1.3 BT coal in FY25 and 1.5 BT in FY30 as per India's energy security goal based on accessibility, affordability, and availability Energy Atmanirbharta" gradually by 2040 by substituting indigenous coal for imported coal. In CCL, 6 FMC projects are under different stages of planning & completion at Amrapali, Magadh, Karo, Konar, North Urimari and KDH/Purnadih OCP for a total planned capacity of more than 100 MT.



Under-construction CHP-Silo at North Urimari OCP

"To be aware means to be sensitive, alive to the things about one, to nature, to people, to colour, to trees, to the environment, to the social structure, the whole thing; to be aware outwardly of all that's happening and to be aware of what is happening inside." ~ Krishnamurti

ACCREDITED COMPENSATORY AFFORESTATION

Rabeya Nawaz, Dy Manager (Env), Forest Dept, CCL

Compensatory Afforestation means afforestation done in lieu of the diversion of forest land for non-forest purpose such as mining, setting up of an industry or an infrastructure project under the Forest Conservation Act, 1980. Earlier, a user agency had to provide land which is not notified as forest against forest diversion and had to bear the cost of raising compensatory afforestation over the same piece of land.

The new Forest Conservation Rules 2022 which came into force on 28th June 2022 envisages formulation of Accredited Compensatory Afforestation (ACA). Accredited Compensatory Afforestation (ACA) is a mechanism for incentivising the private land owners and Government/Institutions for raising afforestation over fallow parcels of land. This is to increase trees outside forests (TOF). It is a system of proactive afforestation to be used for obtaining prior approval under section 2 (ii) of the Forest Conservation Act for raising of advance afforestation over non-forest land.

As per the Forest Conservation rules 2022 Accredited Compensatory Afforestation (ACA) can be earned by any private land owner by afforestation over land on which provisions of FC Act 1980 is not applicable and which is free from all encumbrances. In case of State PSU and Central PSU mined out and biologically reclaimed non-forest land may also be used for raising Accredited Compensatory Afforestation.

Non-Forest land considered for raising such afforestation should be properly demarcated and fenced. An afforestation shall be counted towards ACA if the non-forest land covers an area

of minimum ten hectares or the non-forest land of any size situated in the continuity of land declared or notified as forest under any law, Protected Area, Tiger Reserve or within a designated or identified tiger or wildlife corridor.

An afforestation may be earned towards Accredited Compensatory Afforestation over an area of one hectare which has vegetation (preferably heterogenous in nature and indigenous species) composed predominantly of trees having canopy density of 0.4 or more and the trees are at least five years old. Afforestation raised over 1 ha of land with 0.4 canopy density will be considered equivalent to 1 ACA.

For effective implementation of the ACA mechanism a centralized online portal will be developed wherein any person or agency keen to register in the ACA Scheme may submit online application along with the details of non-forest land or existing afforestation along-with maps, authenticated copies of revenue records, etc. and afforestation scheme or composition of existing afforestation. The online application will be based on the model scheme for raising afforestation for different agro-climatic zones prepared by concerned State Government.

Once the online application to earn ACA is submitted online the local Forest Department shall examine the proposal for its completeness and fulfilment of relevant criterion. Proposals qualifying the scrutiny of local Forest department shall be considered for final registration and proposed ACA scheme. Preconditions and criterion of a particular afforestation shall be evaluated by the local Forest Department by undertaking a visit to such site.

Now that we have learned to fly in the air like birds and dive in the sea like fish, only one thing remains – to learn to live on earth like humans. – George Bernard Shaw.

Based on the site evaluation of afforestation and depending upon the extent of area qualifying under the ACA, Forest Department shall award ACAs to such afforestation. The persons or agencies registered with the Forest Department will be free to trade its asset i.e. the ACA it has earned in parcels with the user agency applying for diversion of forest land for non-forest purpose. The User Agency will pay the amount to the registered agency, as may be agreed between them and swap such ACAs in lieu of diversion of forest land. In case of established ACAs no cost of raising Compensatory Afforestation shall be charged from the user agency by the State Forest Department. ACAs earned by the Government agencies can be swapped in lieu of diversion proposals for their own use.

On receipt of 'In-principle' approval the ACA land parcel shall be transferred and mutated in favour of the State Forest Department and declared as Protected Forest under Section 29 of the Indian Forest Act, 1927. However, in exceptional cases as decided by the Government of India on case to case basis, Government owned lands, where transfer of ownership of land to the Forest Department is not possible due to legal impediments, such lands, without changing their ownership, will be notified as

Protected Forest under the Indian Forest Act, 1927. Provisions of the Forest (Conservation) Act, 1980, Indian Forest Act, 1927 and relevant local Act(s) shall be applicable on such lands and shall be brought under the management and administrative Control of the local Forest Department.

Benefits likely to be accrued from the Accredited Compensatory Afforestation:

- ▶ A system of proactive afforestation to be used for obtaining prior approval under section 2 (ii) of the Act by way of raising advance afforestation over a non-forest land free from any encumbrance.
- ▶ The compensatory afforestation would be undertaken in advance which will obviate any delays that could be caused due to fund flow or administrative/technical procedures.
- ▶ Proposed scheme will also help the government achieve its goal of 33% forest and tree cover.
- ▶ Alternative non-forest land that may be made available would be in a suitable block thereby facilitating appropriate protection measures.
- ▶ Proposed scheme will expedite afforestation works which will ultimately increase the total carbon sequestered.



Plantation at Rajrappa OCP

RECENT OFFICE MEMORANDUM /NOTIFICATIONS RELATED TO ENVIRONMENT CLEARANCE

Gazette Notification SO 1886 (E) of MoEF & CC Dated 20.04.2022:-

- ▶ As per this Gazette Notification related to amendment in EIA notification, 2006 projects having area less than 500 ha will fall under category “B” projects. Such projects will be considered for Environmental Clearance by State Expert Appraisal Committee (SEAC). Similarly, Coal Wahsery below the capacity of 2.5 MTPA will also be for Environmental Clearance by State Expert Appraisal Committee (SEAC), Jharkhand. Earlier, the mining projects having area less than 150 Ha were being considered by State Expert Appraisal Committee (SEAC).

Gazette Notification SO 1807 (E) of MoEF & CC Dated 12.04.2022:-

- ▶ This notification is related to extension in validity of EC. and it states that the prior Environmental Clearance granted for mining projects shall be valid for the project life as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
- ▶ Environmental Clearance compliance shall be examined by concerned Expert Appraisal Committee every five years beyond thirty years, on receipt of extension in validity application in the laid down proforma from the Project Proponent within the maximum validity period of Environmental Clearance of thirty years”

OM related to submission of six-monthly compliance report through dedicated module- F. No. IA3-22/1/2022-IA-III [E- 172624] Dated 14.06.2022:-

- ▶ Ministry has developed a dedicated module in the PARIVESH (Pro-Active Responsive facilitation by Interactive and Virtuous Environmental Single-window Hub) for an online submission and generation of six-monthly compliance reports, based on the EC conditions pre-filled by the Projects Proponents.
- ▶ All the Project Proponents, since issuance of this OM are required to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.

OM related to standardizing the validity of baseline data and public consultation reports for submission of proposal within the validity period of terms of reference (tor) under the provisions of EIA notification, 2006 – F. No. IA 3-22/10/2022-IA. III [E 177258] Dated 08.06.2022:-

- ▶ As per the said OM, Baseline data used for preparation of EIA/EMP reports may be collected at any stage of the EC process or even before the grant of ToR. Public consultation shall be conducted after the grant of ToR.
- ▶ The Public consultation conducted after the expiry of ToR shall not be accepted by the Regulatory Authority. The baseline data and Public Hearing shall not be more than three years old at the time of submission of application for consideration of EC.

“One of the first conditions of happiness is that the link between man and nature shall not be broken.” —Leo Tolstoy



OM related to requirement and validity of certified compliance report-F. No. IA3-22/10/2022-IA.III [E 1772581] Dated 08.06.2022

- ▶ As per the OM, at the time of issuance of expansion ToR, The MS of EAC/SEAC shall endorse a copy of the ToR to the concerned IRO of MoEF&CC. Based on the same, project proponent shall approach the concerned IRO of MoEF&CC to issue CCR. Such request shall be expeditiously considered and disposed of by the concerned IRO within a time frame of three months from the date of application of project proponent.
- ▶ In case, the CCR is not issued within three months, the project proponent shall approach concerned Regional Offices of Central Pollution Control Board (CPCB) or MS of respective State Pollution Control Boards (SPCB) or State Pollution Control Committees (SPCCs) for the same. CCR issued by the concerned Authority shall be valid for a period of one year from the date of inspection of the project.
- ▶ The submission of CCR beyond older than one year from the date of inspection shall not be accepted by the concerned MS of EAC/SEAC for placing it before the EAC/SEAC for carrying out the appraisal process.
- ▶ Monitoring report issued by concerned IROs in conformity to the above, if available, can also be submitted by the project proponent in place of CCR.
- ▶ Self-certified six-monthly Compliance Report for the latest EC shall be sufficient if the project proponent applies for expansion within a period of six months from the grant of previous EC. If such application is submitted beyond the period of six months from the grant of EC, CCR shall be required for the latest EC.

OM related to one-time capacity expansion:-

a) F.No IA3-22/10/2022-IA.III (E177258) Dated:11.04.2022 :-

- ▶ As per the OM, Ministry has decided to consider the proposals for grant of EC to the expansion of coal mining projects upto 50 percent of capacity as mentioned in EC letter in minimum three phases under para 7 (ii) of EIA notification subject to the conditions as under:-
- ▶ The project should have gone through the public hearing process at least once for its existing EC capacity.
- ▶ The proposed expansion shall not be more than 50 percent of production capacity.
- ▶ The project proponent should have satisfactorily complied conditions stipulated in existing EC.
- ▶ Predicted environmental quality parameters shall be within the prescribed norms.

b). F.No IA3-22/10/2022-IA.III (E177258) Dated 30.05.2022:-

- ▶ Revised EIA/EMP report based on standard ToR may be prepared for a maximum of 50 percent expansion of the original EC capacity for which public hearing has been held. However, EC shall be granted in phases of 20%,40% and 50% subject to submission of certified compliance report for ECs granted at each stage.

“You cannot get through a single day without having an impact on the world around you. What you do makes a difference and you have to decide what kind of a difference you want to make.” —Jane Goodall

पर्यावरण का वरण

ऐ धरती पर रहनेवालों,
उठो ! देखो,
ये क्या से क्या हो गया,
प्रकृति का अपहरण हो गया,
कैसा पर्यावरण हो गया !
“फूल”, खुशबू देते थे कभी,
“फल”, तृप्ति देते थे कभी,
“पत्ते”, शीतलता देते थे कभी,
“शाखाएँ”, पक्षियों के बसेरे थे कभी,
आज उन वृक्षों संग मानवता का दहन
हो गया,

कैसा पर्यावरण हो गया,
प्रकृति का अपहरण हो गया,
कैसा पर्यावरण हो गया,.....

वृक्षों की कराह सुनो,
दर्द भरी सलाह सुनो,
ऐ इन्सानों !

अपनी इन्सानियत सम्भालो,
आज अपने मन से छल को निकालो,
वर्ना !

शुद्ध जल, शुद्ध वायु भी न पाओगे,
तुम्हारी कई पुस्तों को देखा है मैंने,

तुम एक पुस्त भी न देख पाओगे,
‘आरी’ से चीर सीना मेरा,
कौन रतन पा जाओगे,
नंगे ही जग में आए हो,
नंगे ही जग से जाओगे,
क्यूँ करते हो छोटी, अपनी जीवन डोर,
मार डालो आज, तुम अपने मन का चोर,
हैवानियत का क्यूँ फिर से नवीकरण हो गया,
कैसा पर्यावरण हो गया,
प्रकृति का अपहरण हो गया,
कैसा पर्यावरण हो गया,.....
हर तरफ आग, हर तरफ सूखा,
कितनी ही रातें लोग सोते हैं भूखा,
अरे ! जग में जीना ही अब मरण हो गया,
कैसा पर्यावरण हो गया,
प्रकृति का अपहरण हो गया,
कैसा पर्यावरण हो गया!

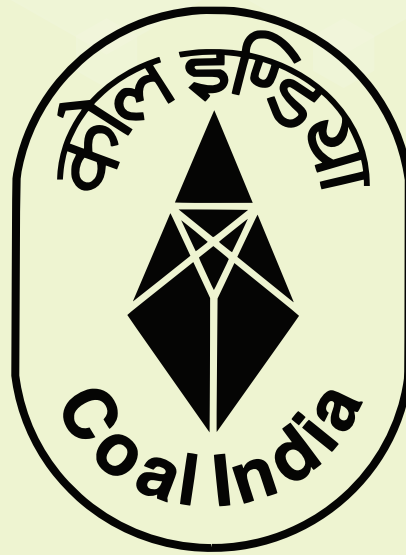
श्री बी.बी. सिंह,
‘सीसीएल मुख्यालय



Nature's beauty is an art of God.
Let us feel the touch of God's invisible hands
in everything beautiful.

By the first touch of His hand, rivers throb and ripple.
When He smiles, the sun shines, the moon glimmers,
the stars twinkle, the flowers bloom.

By the first rays of the rising sun, the universe is stirred;
the shining gold is sprinkled on the smiling buds of rose;
the fragrant air is filled with sweet melodies of singing birds,
the dawn is the dream of God's creative fancy
(Rig Veda 1.6.3.)



Environment Department
Central Coalfields Limited