



OCPL

Odisha
Coal and
Power
Limited

Connect OCPL





**Odisha
Coal and
Power
Limited**

Vision

*To be Pioneering
Coal Mining Company
in the Country*

Mission

*Production of coal
with continuous focus
on safety, efficiency
and quality in an
eco-friendly
environment*

Core Values

- * *Putting Safety First*
- * *Honouring Commitment*
- * *Striving for excellence*
- * *Integrity and transparency*
- * *Collaboration and Team work*

OCPL has taken many significant steps towards smart and environmental friendly mining. Propel 45 CED, India's first Electric dump Truck is in operation at our Manoharpur Coal Mines. This will reduce Co2 emission, considerably.



Odisha Coal and Power Limited

Zone-A, Ground Floor, Fortune Tower, Chandrasekherpur, Bhubaneswar-751023 | E-mail : connect@ocpl.org.in



Sri Sariputta Mishra
Director and CEO

FROM CEO's DESK

Dear Colleagues,

Year 22-23 have been a year of achievements for Team OCPL. We registered wonderful growth accomplishing the targets with zero incidence and generated significant revenue for the State. The productivity and Profit figures have been an eye opener, on the potential OCPL as a team can unleash, in the business of coal mining. Govt. of Odisha lavishly and promptly helped all our initiatives, in all fronts, be it core objectives or social contributions in the periphery and to materialize the embedded dreams. We stood by OPGC and Ministry of Coal throughout the year, during coal crisis and helped it gain our beneficiaries better shape then ever, supported our stock holders with dividend, reduced financing cost through pre-payment of term loans, enhanced our ratings through consistent better performances in a compliant work culture. With the newly set up office and township in the picturesque landscape of Hemgir region, we hope there will be significant improvements in our social life happiness indices aligned to work life balance.

This in-house magazine capturing our efforts and endeavours in nutshell, shall be an immense source of inspiration, when we look back at leisure to our integrated approaches for infusing excellence in all spheres.

On the occasion I compliment your efforts & fruitful association and wish you all better days ahead.



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Sri Manas Kumar Nayak
DGM (HR)

HR CORNER



DIGITISATION OF HR WORK

The Digital HR platform should be used to assist in the analysis of people data (People Analytics), allowing HR to improve work efficiency and make better decisions about personnel management, employee retention, and new hires.

Here are the three major types of HR software:

Human Resource Information System (HRIS) This system is probably the most popular of the three, with its main focus on employee data organization

Human Capital Management (HCM) and Human Resource Management System (HRMS):

The use of Digital HR helps not only to HR strategic systems but also to the whole organization to run smoothly and accomplish the targets on time.

The post-pandemic era has forced a seismic shift in the HR operating model. From the phase where employee management was simply straightforward to the stage where hybrid and remote work converge, HR operations are unmanageable and less predictable. As a result, employee experience is at stake.

In addition, it is a new challenge for the human resource team as they need to elevate the level of adaptability and responsibility amidst the fear of employee attrition. Companies embracing HR digital transformation are poised to battle with the sudden change in work culture and improve HR capabilities.

Digital acceleration in human resources transforms the way HR manages its day-to-day activities. The change encourages the removal of manual interventions and otherwise lengthy paperwork processes while fostering productivity and efficiency and intensifying operational resilience. Metamorphically, HR digital transformation is not a change for HR only, rather it drives overall organizational success.

Transitioning to an environment operated by digital components, tools, and technologies, especially automation, can make processes more streamlined and easier to manage for businesses.

When it refers to HR digital transformation, it means that traditional HR operations migrate to a digital environment to become more independent and streamlined by leveraging powerful tools like automation, data analytics, chatbots, and on boarding

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software, among others.

Key Benefits of HR Digital Transformation

- Improve employee engagement and satisfaction
- The faster and improved recruitment process
- Increase efficiency
- Improve data accuracy
- Increase regulatory compliance
- Increase employee security
- Increase cost-efficiency
- Encourages an Environment of Employee Excellence.
- Increase Operational Efficiency
- Enables Future Digital Growth

Challenges of HR Digital Transformation

It is not just hard work but work that requires a lot of research and proof-of-concept for mutual agreement.

With HR transformation turning out to be inevitable in the pandemic era, HR functions also aim to deliver competitive advantage and operational excellence. It is, therefore, essential to focus on business strategy, processes, and technology that can align with business goals and create values for all stakeholders.

In order to introduce HR digital transformation in our organisation, We are working on this area. We are sure that on accomplishing HR digital transformation, it will reduce costs and improve efficiency in our organisation. This is the right time to re-evaluate the digital transformation strategies and translate them into reality in OCPL.



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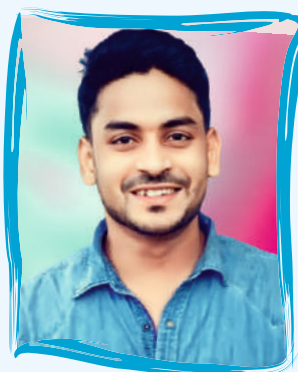
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Manas Kumar Nayak,
DGM (HR)



Biswendu Bhusan Mohapatra,
Manager (Security)



Radhakanta Sahoo,
Asst. Manager (Stores)



Abhishek Mohanty,
Asst. Manager (Purchase)



Rajesh Sahoo,
Asst. Manager (Mining)



Bijay Kumar Naik,
Asst. Manager (Mech.)



Yadam Rabindra Kumar,
Asst. Manager (Finance)



Dillip Kumar Mohalik,
Electrical Supervisor





Sri Ayaskant Kanungo
General Manager (C & CA)



MANAGEMENT LESSONS FROM ANCIENT TIMES

RISE AND FALL OF A MERCHANT

Panchatantra teaches us the right things one need to do. The management lesson we learn from Panchatantra stories are very effective in our life. Here is a short story from Panchatantra:

In a city called Madhura, lived a very efficient and prosperous merchant. The king was aware of his abilities and therefore made him administrator of the kingdom. With his **well-organized and smart ways of working, he made the administration efficient** and kept common men happy and at the same time impressed the king on the other side.

Later time came that the merchant's daughter was getting married. He arranged a lavish reception and invited not only the king and queen but the entire royal household and all respected people of the kingdom.

A servant of the royal household, who used to sweep the palace, was not invited but attended the reception. He took a seat which was reserved for royal nobles, not meant for common invitees. **This made the merchant very angry. He caught him by the neck and ordered his servants to have him thrown out.** The royal servant felt very insulted and could not sleep all night. He thought, "If I can have the king to disfavour this merchant, I will have my revenge. But what can I, a common fellow, do to harm a powerful person as him". Thinking such, he suddenly had a plan.



Several days later, the servant was sweeping the floor near the king's bed early in the morning. He observed that that the king was still in bed, half awake. The servant started mumbling, "Good heavens! The merchant has become so carefree now that he dared to embrace the queen!"

When the king heard this lying in his bed, he jumped up and asked the servant, "Is it true? Have you seen the merchant embrace my queen yourself?"; The servant at once fell at the king's feet, "O Master, I was gambling all night. I feel drowsy for I didn't sleep last night. I don't know what I have been mumbling, but I said anything improper, please forgive me. **The king spoke no more, but the servant knew he had sowed the seed of distrust.** The king thought, "It can be true! The servant moves about the palace freely, and so does the merchant. It is possible that the servant has seen something."

The king was troubled. From that day onward, he withdrew his favours from the merchant and even forbade him to enter the palace. One day, when the merchant was

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MANAGEMENT LESSONS FROM ANCIENT TIMES

entering the gateway to the palace, he was stopped by the guards. The merchant was surprised due to this sudden change in the king's attitude. The servant was nearby, and mocking shouted at the guards, "Ho Guards! you are stopping the great merchant of this kingdom. He is powerful. If you stop him, you will be thrown out just like me."

On hearing this, the merchant understood that the servant has caused all this trouble somehow. He felt dejected and returned home upset over the incident. **He gave everything a second thought**, and then he invited the royal servant to his house. He treated the servant with respect and flattered him with gifts and garments. He said kindly, "O friend, that day I did not have you thrown out due to anger, but it was improper of you to occupy the seat reserved for the royal nobles. They felt insulted, and out of compulsion I had to throw you out. Please forgive me."



The servant was already flattered with all the gifts, and he was full of joy, "Sir, I forgive you. You have not only expressed your regrets, but also honoured me with utmost respect". He ensured the merchant, "I will prove you how clever I am. I will have the king favourable towards you, like he was before". The servant went back home.

Early next morning, when he started sweeping the floors of the palace, he waited till when the king was lying half-awake. When the opportunity came, he started sweeping around his bed and started mumbling, "Our king is crazy, he eats cucumber in the lavatory!"; On hearing this, the king was taken aback. He got up angrily and shouted at the servant, "What nonsense do you talk about? Have you ever seen me doing such thing yourself?"; Once again, the servant fell on his knees and prayed, "O Master, please forgive me if I said something improper. I was gambling all last night and didn't sleep. I feel drowsy and I don't know what I have been mumbling."

The king thought to himself, "I have never eaten a cucumber in the lavatory. What he mumbled about me is ridiculously false. Surely then, what he mumbled about my trusted merchant the other morning must have been ridiculously false too. It was improper of me to mistreat the merchant."; He wondered, "After all he has been so efficient in the whole administrative system, that without him it has become slack.". Thus, having considered carefully, the king invited the merchant to the palace and flattered him with gifts, jewels and garments. He re-appointed the merchant to his previously held position and favoured his services as before.

Management Lessons:

Respect everyone in the Organization regardless of their title and position. As we could see from this story, the merchant's ill treatment of the servant costed him dearly. A manager/leader should treat everyone with respect and care in the organization. A Leader's EQ is gaining more significance during these days, as organizations grow globally and often leaders are expected to work with people from different race, gender & religion. After all Life is all about relationships. As William Lyon Phelps said"



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MANAGEMENT LESSONS FROM ANCIENT TIMES

This is the final test of a gentleman: his respect for those who can be of no possible value to him."

Never underestimate one's ability : We often underestimate people's ability, be it a team member, a friend or a competitor or even oneself, we should never underestimate people's ability. As depicted, the servant being one of the lowest members in the organization's hierarchy, he did not underestimate his own's ability to influence the topmost person of the pyramid, the King, thus able to achieve the desired goal. We too would have come across hurdles, seems its beyond our control or ability to overcome the challenge, still we can devise ways to influence and make a change.

Respond Vs React (Prevent knee-jerk reaction): In today's challenging environment leaders succumb to stressful, demanding situations and often react quickly without much thought, provoked by emotions, look for quick-fix solutions without proper analysis and understanding. As the story depicts, the King believed what he heard from servant, carried away by his emotions he reacted without analysing the merits of the accusation resulted in taking a knee-jerk decision resulted in losing an efficient administrator.

A leader shouldn't believe everything he/she hears. There are always three sides of a story, yours, theirs and the truth. At times, we tend to overlook the reality and believe illustrations by peers thus land up in huge issues. When a leader tries to resolve an issue or modify a behaviour (theirs or team's), he/she shouldn't be diverged by the symptoms instead get to the root cause underlying the issue/behaviour and respond not react.

Ego vs Attitude: A child has no ego, Children used to fight with buddies yet never carry that forever, rather they get back together fast. A leader also should never be egoistic, rather be open and flexible to adapt to the situations with a positive attitude. As soon as the merchant realized his mistake, he was not reluctant to approach the servant and fixed the issue by his non-egoistic, positive approach, though he is more powerful than the servant. He didn't flex his muscles rather went for a positive, win-win solution. One of the hardest challenges for leaders is to remain grounded in the face of their success. Leaders with out-of-control egos are responsible for huge losses in productivity and profits. As a leader, one shouldn't fall into this trap rather being more concerned about the needs and accomplishments of other people in the team and the organization.

Talent and Trust: In a leadership role, the most challenging part is people management. Though the merchant is very talented and have been delivering his responsibilities efficiently, King threw him away from his role due to a wrong perception. It is not only a loss for the merchant but also for the king as he lost good talent and able administrative system. Business leaders often face challenges with employing, engaging and retaining talent especially in this era of fast changing and dynamic market. Hence, it is critical for a leader to hone his/her people management skills and be an empathetic listener, avoid prejudice to arrive at unbiased decision making which is good for the larger organization.

Friends, I shall write on the Lessons from Panchatantra Stories in our News letter. This is first one from me and others to follow. Panchatantra- an ancient Indian fable authored by Vishnu Sharma, dated back to 200 BCE.



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Sri L. Ramachandra Reddy
Head of Mines

MINE MODELLING & PLANNING FOR ENSURING SUPPLY OF CONSISTENT QUALITY COAL



Captive coal mines allocated to the specified end use plants will face lot of challenges in maintaining the supply of desired quality coal to the plants. In India not many thermal power plants are designed by considering the available coal quality in the linked mines. The design coal specifications of thermal power plants will usually have $\pm 200 - 300$ Kcal/kg margin to feed the worst and best coals to the boilers. The supply of inferior quality coal will lead to loss of generation of power, increased operation & maintenance costs, reduction in life of the plant, increased ash handling costs and its disposal etc. Further, the supply of coal within the design range needs to be provided with each and every consignment as most of the plants are adopting direct feeding of coal to reduce its rehandling and also the auxiliary power consumption.

OCPL has taken several steps during planning and execution stages of its Manoharpur Coal Mine to supply the coal within the design parameters of its end use plant, viz:

1. Preparation of Annual Production Plan and 5 year rolling production plans in advance.
2. Advance infill core drilling at 100mx100m grid.
3. Band- by-Band analysis of all the cores for Ash%, Moisture% and GCV.
4. Pit design, Modelling and optimization with Minex software.
5. Determining the overall coal quality available for the operational year.
6. In-situ coal testing of exposed seams.
7. Seam sequencing and deployment of machinery as per the plan.
8. Ensuring the exposure of different seams for enabling blending.
9. Segregation of dirt bands and shale with the help of loaders.
10. Blending of coal in the stockyards and siding

NABL accredited coal laboratory with all the required equipment and infrastructure has been established in the mines to enable the sample preparation and analysis of the coal produced and dispatched from the mine.

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Sri Ajaya Kumar Majhi
Company Secretary



COMPLIANCES

CORPORATE COMPLIANCE MANAGEMENT

INTRODUCTION

Compliance has become non-negotiable for everyone today. Compliance means to comply with or adhere to. In general, Corporate Compliance means conforming to a rule, such as a specification, policy, standard or law, stated requirements. Regulatory compliance describes the goal that organizations make efforts to ensure that personnel are aware of and take steps to comply with relevant Laws and Regulations. A company that follows all the rules is in compliance.



Corporate Compliance in India and other countries generally means compliance with laws and regulations. Corporate Compliance is not a onetime process but continuous process in timely manner to ensure effectiveness. Corporate Compliance is emerging as a vital aspect of overall management and corporate governance process.

Every company is bound to act within the laws, rules and directions laid down by the legislature. Further, the management of every company has a fiduciary responsibility towards the company, shareholders and other stakeholders such as the statutory authorities, vendors, customers and the general public. It is a primary expectation of all the stakeholders that the management act with reasonable care, skill and diligence. This, in brief, Corporate Compliance is the foundation of corporate compliance management which is the cornerstone and the ethos of good corporate governance.

WHY CORPORATE COMPLIANCE IS IMPORTANT

The implications of globalisation have intensified interdependence and competition between economies in the world market. This is reflected in Interdependence in regard to trading in goods and services and in movement of capital. As a result, domestic economic developments are not determined entirely by domestic policies and market conditions. Rather, they are influenced by both domestic and international policies and economic conditions. It is thus clear that a globalizing economy, while formulating and evaluating its domestic policy, cannot afford to ignore the possible actions and reactions of policies and developments in the rest of the world.

In this background, it becomes pertinent to note that every company has to comply with a plethora of Acts and Regulations and that is where Corporate Compliance gains significance.

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COMPLIANCES

“The multiplicity of laws, rules, regulations, etc. has necessitated introduction of a system to ensure compliances under the laws. This has a two-fold objective. Firstly, to protect the interests of the customers, employees, revenue, environment and the directors and officers of the company. Secondly, to avoid any unwarranted legal actions by the law enforcing agencies and other persons as well.

COMPLIANCE PROVIDES BENEFITS BEYOND THE OBVIOUS:

- Better compliance of the law of the land
- Compliance help in earning client's Trust
- Review of the status of legal/statutory compliances
- Safety valve against unintended non compliances, prosecutions, etc.
- Cost savings by avoiding penalties/fines and minimizing litigation
- Eliminating chances of being hit by law of limitation
- Better brand image and positioning of the company in the market
- Enhanced credibility/creditworthiness that only a law abiding company can command
- Concerns for the interests of the investors enhanced implementation of the principles of corporate governance
- Professional management at all levels of the hierarchy

The process of Corporate Compliance process will involve listing out various applicable laws to the company and specifying the actual compliance requirements.

While stringent compliance programs, upgraded controls and regular monitoring could help prevent corruption, social control like building an ethical culture in the organisation is one of the best ways to prevent any form of unethical practice including bribery and corruption.

Further, in order to curb corruption and check compliances, OCPL has adopted the following preventive mechanisms as follows:

- A comprehensive code of conduct and strict enforcement of the code communicating zero tolerance towards corruption and Compliance of Rules.
- A structured whistle blowing mechanism to report potential bribery/ corruption issues.
- A complete and periodic risk assessment mechanism including third party audits with specific reference to corruption related risks.



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COMPLIANCES

OCPL Best Practices

The Corporate Compliance process & Reporting at OCPL involves following:

CORPORATE COMPLIANCE MANAGEMENT

Corporate Laws	Commercial Laws	Tax Laws	Labour Laws	Pollution/ Environment related Laws	Local Laws	Mines Laws	Misc. Laws
Companies Act, 2013	Indian Contract Act, 1872	Income Tax Act, 1961	Payment of Wages Act, 1936 Minimum Wages Act, 1948	Air (Prevention and control of Pollution) Act, 1981	These would include Stamp Act, Registration Act, municipal and civic administration laws, shops and establishments, etc.	Mines Act, 1952 Mines Concession Rules, 1960 The Mines Rescue Rules, 1985	Competition Act 2002
Foreign Exchange Management Act, 1999	Sale of Goods Act, 1930	GST Act, 2017 23, GST Rules, 2017	Payment of Gratuity Act, 1972 Equal Remuneration Act, 1923	Water (Prevention and Control of Pollution) Act, 1974	-	Indian Explosives Act, 1884 Indian Explosives Rules, 2008	Right to Information Act, 2005
	Transfer of Property Act, 1882	Customs Act, 1962	Contract Labour (Regulation and Abolition) Act, 1970 Maternity Benefits Act, 1961	Environment Protection Act, 1986.	-	Coal Mines Regulations, 1957 Indian Bureau of Mines (Electrical Supervisor and Electrician) Recruitment Rules, 1990	Indian Electricity Act, 2003,
	Negotiable Instruments Act, 1881		Employees' State Insurance Act, 1948 Coal Mines Pension Scheme, 1998 Coal Mines provident (Miscellaneous Provisions) Act, 1948	Forest (Conservation) Act, 1980	-	Colliery Control Order, 2000 Colliery Control Rules, 2004	
	Intellectual property protection Act- including Trademark, Copyright and Patent		Sexual Harassment of Women at work places (Prevention, Prohibition and Redressal) Act, 2013	Wildlife (Protection) Act, 1972	-	The Mines Vocational Training Rules, 1966 Mines (Posting of Abstracts) Rules, 1954 Mines & Mineral (Development Regulations) Act, 1957	



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COMPLIANCES

List is indicative and not exhaustive

Compliance risk also form an integral part of such evaluation. The risk assessment should inform the development of monitoring programmes, policies and procedures, training and Minimizing dependence on third party contractors. All third parties should be subject to thorough due diligence and should be reviewed regularly.

In addition, OCPL has a good practice for the following as part of the Corporate Compliance:

- Supply contracts, purchase orders and order acceptances,
- Indemnities, legal undertakings and comfort letters,
- Lease and rent agreements,
- Service contracts, agreements or letters of appointments,
- Consultancy or technical assistance on Agreements,
- Suits, petitions and affidavits,
- Reply to show-cause notices or demand notices,
- Statutory clearances, permits, returns, forms and notices,
- Any document required to be executed under the common seal of the company,
- Mortgage, hypothecation or any such document creating a charge on the company's moveable or immovable property.

POLICIES FOR BETTER COMPLIANCE

OCPL has various policies in the organization which are based on Acts and rules which are applicable to a company and some of them are mentioned below:

- Internal Policies, Process and guidelines,
- Environment & Safety Policy,
- Whistle blower policy.



CONCLUSION

Ongoing globalization will increase the complexity of principles, regulations, and the cultures in which organizations operate. Increasing litigation, legislation and regulations will carry important compliance implications. Ever growing competition will increase the pressure on organizations to enhance productivity. Good corporate governance demands that every organization comply with regulatory needs and this is not a choice, but the increasing complexities of business in a diverse, global environment have brought the need for a more proactive management of the process.

The culture of strict adherence to good compliances can keep a company ahead on sustainable basis, bringing in larger profits



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Sri Bhagaban Parida
AGM (Finance)



FINANCIAL ACHIEVEMENT

EMBRACING CHALLENGES, IGNITING SUCCESS: THE TALE OF OCPL'S SUCCESS

Once upon a time, in the heart of a land blessed with abundant natural resources, a phoenix named Odisha Coal and Power Limited (OCPL) was born. OCPL's journey was a rollercoaster ride filled with extraordinary twists and turns that captured the imagination of all who heard its story. There was one time when OCPL was struggling for its survival and cash position of the company dried up and term loan repayment was imminent. Company was staring at its default from the very first debt servicing commitment. OCPL was not even in a position to pay salaries of its employees, the most valued assets of the company. No bankers and financial institutions would have spared us from falling flat. The company saw itself in the lowest strata in the bottom of pit and no amount of efforts could have lifted the fortune of OCPL. Company saw the lowest of the low in its bid to survive amid challenges. Now, when we imagine that such scenarios we get goose bumps. But the Team OCPL did not dither by the lows and challenges lay ahead and they started injecting the much needed energy into the indomitable spirit of the organisation. Commencement of coal mining hastened. Hopes started to raise its head when OCPL despatched its first consignment of coal to Mahanadi Coal Limited in December 2019 and embarked on a mission to harness the power of coal and provide much-needed energy.

But the actual surprised rise came in Financial year 2021-22 when surplus coal situation arose due to low offtake of coal by OPGC. To dispose such surplus coal, OCPL went for e-auction of surplus coal.



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FINANCIAL ACHIEVEMENT



First e-Auction and successive e-Auctions went successful and in no time OCPL was able to wipe out all its past losses and propelled OCPL into a formidable position in the Coal industry. There was no looking back. OCPL became a Five Star Coal Company in India with handful of companies in the Five Star league in India. In FY 2022-23,

OCPL came in full throttle and exponentially grew its performance with many more number of e-Auctions conducted successfully. These e-Auctions became a stage for OCPL to showcase its efficiency, transparency, and fair practices. They attracted top players in the industry, all eager to participate in this exciting and rewarding auction process and benefit from it. OCPL's credit rating revised to BBB+ in the wake of its Stable outlook of its business operations. Their revenue from operations soared, reaching unprecedented heights. Now OCPL is known for its commitment for excellence and responsible practices which has set them apart from the rest.

But OCPL's success was not merely about financial gains. The company was equally focused on optimizing costs and improving efficiency. Management's efforts to streamline expenses resulted in a leaner and more agile organization. Employee costs, finance costs, and mining costs as a percentage of sales saw significant reductions, indicating a commitment to prudent financial management. Beyond the financial success, OCPL has also devoted to giving back to society. They managed their debts responsibly, ensuring timely



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FINANCIAL ACHIEVEMENT

repayment and contributing to various social causes under CSR and contribution to CM's Relief Fund of Odisha. From supporting relief efforts during disasters to contributing to community development projects, OCPL made a positive impact in the lives of many. The company's contributions extended to the nation's development as well. Through their diligent compliance with tax and regulatory requirements, OCPL made substantial contributions to the State and Central Exchequer. These funds played a vital role in supporting various government initiatives, uplifting the communities they operated in.

Above all, OCPL's story of success was a result of the collective efforts of its passionate employees, who worked tirelessly to overcome challenges and embrace opportunities. Their dedication and perseverance paved the way for OCPL's growth and recognition as a symbol of excellence in the coal and power industry. OCPL's legacy continues to shine brightly, inspiring other companies and leaving a lasting impact on the energy sector. Their story of success was not just about financial achievements, but also about responsible practices, giving back to the community and consumers, and contributing to the nation's growth. Odisha Coal and Power Limited stood as a beacon of hope and a true embodiment of success in every sense of the word.



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Sri Bidyadhar Barah
Dy. Manager (Civil)



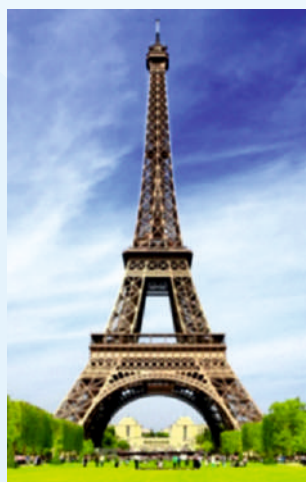
HSE & SUSTAINABILITY

WHETHER TO GO FOR RCC OR STEEL STRUCTURE?

Since the early human settlement, several type of structures have developed and advanced with time. However, broadly two types of structures are common around the Globe. These are RCC Structure and Steel Structure. Although composite structures with both RCC & Steel members are being used, these are not so common in practice. Let's discuss various aspects of selecting any of the two structures.

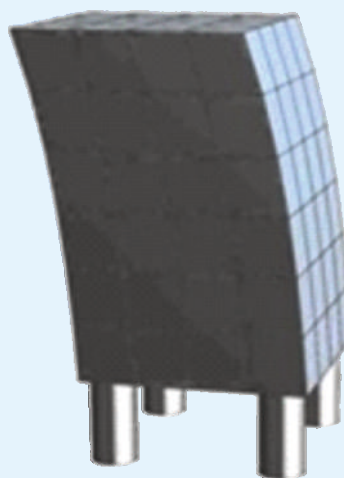
1. Architectural View:

In the present time, architectural and aesthetic view of a structure plays a major role. In the well-developed cities around the world, even utility structures are planned in a way to beautify the town and give it an ultra-modern look. To give an artistic impression to a structure, Steel members are the best option. Artistic masterpiece like the Eiffel Tower and the Howrah Bridge are Steel Structures. RCC structures, combined with surface rendering profiles like structural glazing, High Pressure Laminate (HPL), Aluminium Composite Panel (ACP), Wood Plastic Composite Panel (WPC) etc. are now-a-days widely adopted for construction of High-Rise Buildings, Hotels, Offices, Shopping Malls etc. in modern era cities.



2. Structural Stability:

Structural stability of a structure depends on a number of factors like bearing capacity of the soil, Quality of the construction materials used, proper structural design and geographical condition of the locality etc. However, the lateral sway movement of a structure plays an important role in the building stability. Steel members being more flexible to bending, are not the best option from stability point of view. While designing a structure of height more than 10.0 Mtr, wind load factor plays a major role. Lateral force considered due to wind load is $\frac{1}{2}MV^2$ where 'M' is the mass in Kg. and 'V' is the velocity of wind flow in m/s. So with the increase in wind speed, lateral force applied on the structure increases exponentially. At present, the tallest building in the world, Burj Khalifa is an RCC structure.



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3. Load Bearing of Construction Material:

Members of a structure usually experience five types of risk of failure. Tensile, Compressive, Bending, Shear and Torsion. Such load bearing of a material depends on the “Modulus of Elasticity” of that material. Modulus of Elasticity of Steel is 2×10^5 MPa. Whereas, Modulus of Elasticity of concrete is $E_c = 5000 \sqrt{f_{ck}}$ where f_{ck} is the Characteristic Strength of Concrete. Hence, it is evident that Steel is a better option for member going through tensile load and Concrete is better for compressive load. For torsion load, a hollow section is the better option. A truss or composite member is the better choice for a member subjected to bending force.

4. Construction Speed:

Now-a-days it is said that Time = Money. All most all the projects in the world are constructed by taking loans from financial institutions at a very high interest rate. Further, price of raw materials increases rapidly over time. A commercial project will always try to commence on or before scheduled time so that it can book the profit earlier. Steel is a precast material. It required to be fabricated and jointed as per the drawing & design to get the required shape of the structure. Whereas, concrete is mostly a cast-in-situ material. Further, concrete needs 28 days' time to get the design strength before applying load on it. So, steel is a better option from this point of view. However, precast concrete members are now-a-days widely used in Road & Bridge works to reduce construction time of RCC structures.

5. Durability:

In normal circumstances Concrete is more durable than Steel. However, durability of Steel can be increased by making it rust free (By using Galvanized or Stainless Steel). Tiscrom, a high tensile alloy steel (A custom made improvised steel made from the alloy of Steel, Manganese, Copper, Silicon, Chromium and Carbon) manufactured by M/s TATA Steel is used in the construction of Howrah Bridge in Kolkata.



6. Cost Effectiveness:

Cost of construction is definitely an important factor for any project. While selecting the construction materials, lower cost items are given priority without compromising the desired quality. Looking at the present market trend, cost of construction for both Steel & RCC structures will be more or less same. So, there is no significant difference in cost effectiveness.



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7. *Geographical Condition:*

Geographical condition of the project site plays an important role while selecting the construction material. Steel being more corrosive to weather condition, are generally avoided near the sea or ocean area. However, galvanized or alloy steel of higher grade can be used if required. RCC structure with pile foundation is ideal in the areas



having low soil bearing capacity. RCC structure is better than Steel in extreme temperature areas. In water-log areas, it is advised to construct RCC structure for longevity of the structures.

8. *Use of the Building & Structure:*

Depending on the use of the building, type of structure is wisely selected. In general, Residential Buildings, Hospitals, Educational Institutions and general public use buildings are constructed in RCC. However, Utility Structures, cable supported Bridges, Industrial Buildings/ Sheds are constructed in Steel frames. Main reason of such material selection is the scope of modification. RCC structures once constructed are difficult to modify but Steel Structures can be modified easily.

9. *Protection against Natural Calamities:*

Some of the areas are prone to natural disasters like earthquake, cyclones, flood and Tsunami etc. Although buildings and structures are suitably designed to withstand natural disasters, a higher intensity natural calamity can cause significant damage to the structure. Steel materials being ductile, may easily deform under the influence of high intensity natural forces. Hence, RCC structure is used in such areas. However, concrete is brittle. So, special construction methodology is adopted to minimize the effect of natural forces on the structures. Some of them are like lowering the centre of gravity of the structure as much as possible, using flexible joint at required elevations to minimize the effect of vibration, providing aerodynamic shape to the superstructure, avoiding direct contact of water to the structure by providing proper drainage, using fender piles & additional support structures etc. Though none of the structures is completely fire proof, RCC has more capacity to withstand heat than Steel. So, protection against fire is better in RCC structures.

10. *Eco-friendly:*

Steel is a recyclable material and hence eco-friendly. In the production plant, both Steel and Cement produce pollutants. But while in use as a construction material Cement and other ingredients used in RCC structure creates more pollution than Steel Structure.

If the above factors are analysed properly at the design stage, a better decision can be made to select a suitable structure.



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Sri Rajeeb Panda
Dy. Manager (CSR and R & R)

HSE & SUSTAINABILITY



LAND ACQUISITION

Manoharpur Coal Block

Lease Deed agreement in favour of OCPL relating to Govt Land measuring an area of Ac. 767.81 and Private Land measuring an area of Ac. 1033.08 of village Manoharpur, Dulinga, Kathphali, Ghumudasan, Paramanandapur, Durubaga, Sarbahal and Laikera, was successfully executed on dated 06th November 2021 at Sub-Registrar Office, Hemgir.

Issuance of No Objection Certificate (NOC) for creation of Mortgage in respect of land allotted to M/s Odisha Coal and Power Limited has been successfully obtained from IDCO, Bhubaneswar on dated 29.11.2021.

OCPL has successfully mortgaged the Private and Govt Land for an area of Ac. 1800.89 before Union Bank of India on dated 31st January 2022.

The Declaration u/s 19 (1) Notification has been issued successfully issued by Collector, Sundargarh of dated 23.12.2022 for the left out Private land for an area of Ac. 2.19. Subsequently the Gazette Notification u/s 19 (1) was issued on dated 31.12.2022. The disbursement of Land Compensation to the recorded tenants are under progress at Land Acquisition Office, Hemgir.

Dip-side Manoharpur Coal Block

The Government of India, Ministry of Coal has issued Notification U/s 7 (1) under Coal Bearing Areas (Development & Acquisition) Act, 1957 on dated 01.01.2020, Declaration U/s 9 (1) on dated 16.07.2020 and Notification U/s 11 (1) on dated 07.09.2020 respectively for the Dip-side Manoharpur Coal Block of OCPL. Further, the Government has vested the said land measuring 1691.730 acres (Approx.) and all rights in and over the said lands with OCPL with effect from 18.07.2020. The acquired land comes under four villages namely Kathphali, Paramanandapur, Katarbaga and Durubaga under Hemgir Tahasil, out of which two villages namely Kathphali and Paramanandapur will be displaced. The details on Radial Distance and Benchmark Valuation has been received from the concerned Deptt for calculation of Land compensation. The Socio Economic Survey has been completed and subsequently the same has been circulated in the Project Affected villages by Land Acquisition Officer, Hemgir. The Valuation of Structure and Tree relating to Private and Govt land is under process. Tahasildar, Hemgir has issued a demand note with respect to Govt Land for an area of Ac. 761.98 to OCPL for deposit of Govt dues such as Land Premium, Capitalized Value and Incidental Charges amounting to Rs. 187, 92, 42,450.00 relating to Govt non-forest land for an area of Ac. 761.98.

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Sri Biswaranjan Patra
Sr. Asst. Manager (Geology)



HSE & SUSTAINABILITY

INFILL DRILLING AND ITS ANALYSIS

The Ib River coalfield is like a half elliptical basin which is closed towards south-east and open towards north-west having an axial trend in NW-SE direction. The Blocks under reference forms the south eastern part of the northern limb of the IB- **Himgir Basin**. It is located on a north-west trending string of 14 coal blocks containing mostly Lajkura and Rampur seams. However, in the North Western blocks, from Kulda onward also contain IB Seam I. The IB- Himgir basin contains a thick pile of the lower Gondwana Sediments which also includes the coal bearing Barakar Formation.

The fundamental objective of coal prospecting is to discover coal resources through a search. The search process should result in obtaining coal samples that give reasonable evidence of the existence of a coal seam. Once a seam has been discovered, considerable further work is necessary in order to advance knowledge of the particular geologic aspects and the extent of the coal deposit. The term coal exploration is used to describe these activities. Coal exploration includes activities and evaluations necessary to gather data for making decisions on such issues as the desirability of further exploration,

Approximate 5000 mtrs planned to explore within the lease area with close space interval.

we have undertaken infill drilling program in the area earmarked for Mining Operations. We have also drilled the additional boreholes on outcrop side. Infill Drilling was carried out at **100 m x 100 m grid** as per the stipulation. All the infill drilling boreholes were drilled with 100% coring. We have already explored 15941.5 mtrs with 100 m x 100 m grid.

All generated coal samples are being analysed in **OCPL COAL LABORATORY** for Band-by-BY analysis for all coal seams. Proximate analysis on 60% RH on 40°C are also being carried out in **OCPL COAL LABORATORY** for determination of Ash, Moisture and GCV.



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Sri Kamalkant Ujinwal
Sr. Asst. Manager (Environment)

HSE & SUSTAINABILITY



DUST POLLUTION CONTROL MEASURES IN MANOHARPUR COAL MINE

In coal mines, air pollution starts with removal of massive overburden (OB) which discharges fine particles i.e. dust in the environment. It is followed by drilling / blasting / extraction of coal and movement of extracted coal to the Crusher/ Coal Handling Plant (CHP) and finally transportation of coal to the consumer through rail or road. These operations generate Suspended Particulate Matter (SPM) and Respirable Particulate Matter (RSPM-PM₁₀) in the surroundings which are the main sources of air pollution i.e. dust pollution. In Manoharpur coal mine, coal is being extracted through the use of surface miner after drilling & blasting operations to reduce the dust pollution. However, the dust is being generated due to mining activities such as drilling, blasting, coal extraction, road transportation etc. Hence, an Environmental Impact Assessment (EIA) study has been carried out for Manoharpur Coal Mine considering pre and post mining conditions and accordingly the Environmental Management Plan (EMP) has been approved by the MoEF&CC while granting the Environmental Clearance for the Manoharpur Coal Mine. The mitigation measures as suggested in the EMP is being and will be followed by OCPL to reduce the dust generation and keep the pollution under control.

According to the EIA – EMP of the Manoharpur coal mine, required number of air quality monitoring stations (AQMS) as specified in EC have been established in core zone (within project premises) and buffer zone (within 10 km of the project area) for monitoring of ambient air quality. Fortnightly monitoring is being carried out by the MoEF&CC/NABL/SPCB, Odisha accredited laboratory at each station to check the air quality index of the project area. After obtaining the results of monitored parameters i.e. SPM and RSPM (PM₁₀), appropriate mitigation measures as suggested in the EMP is being implemented to reduce the dust pollution and to keep



Monitoring of Ambient Air Quality at CHP Area

Ghumuda, Odisha

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the SPM and RSPM levels under the limit as prescribed by MoEF&CC. The photographs showing the monitoring of Ambient Air Quality inside the core zone during the month of May 2023 at Manoharpur Coal Mine is given.



Monitoring of Ambient Air Quality at Mine Area

The results of the SPM and RSPM (PM) obtained from the laboratory for the month of May, 2023 shows that the monitored values are well within the limits as prescribed by MoEF & CC. The results obtained are provided below :

Date of Monitoring	Location	Sampling duration	Suspended Particulate Matter, SPM (µg/m³)	Respirable Particulate Matter, PM ₁₀ (µg/m³)
03.05.2023	Mine Area	24 hrs.	368.0	228.0
19.05.2023		24 hrs.	351.0	239.0
04.05.2023	CHP Area	24 hrs.	302.1	232.2
20.05.2023		24 hrs.	286.9	244.6
As per MoEF& CC Standard Notification no. GSR 742 (E) for Coal mine			500	250
Testing Method			Gravimetric IS 5182: (Part 4) RA 2019	Gravimetric IS 5182: (Part 23) RA 2017

If the above monitored parameters SPM and RSPM exceeds the limit as specified above, appropriate mitigative measures such as increase in frequency of water sprinkling, reduction in vehicle speed on transportation roads etc. is being and will be followed to reduce the dust pollution.

Apart from the above, one number Continuous Ambient Air Quality Monitoring Station (CAAQMS) has also been installed and commissioned within the core zone of mine to check and review the real time air quality of the area and the same has also been connected with the server of Odisha State Pollution Control Board (OSPCB). Thus, OCPL ensure the air quality parameters within the limits as specified above in table by adopting the appropriate mitigative measures timely.



Continuous Ambient Air Quality Monitoring Station (CAAQMS) installed at Manoharpur Coal Mine



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HSE & Sustainability



**Tarpaulin Covers used in High Capacity
Tippers used for Coal Transportation**

Further in addition to above, the following control measures have been adopted by OCPL to reduce / control of dust pollution caused due to mining operations:

- 1) High capacity (i.e. 30 - 35 tonnes capacity) tarpaulin covered tippers have been deployed to reduce the number of trips resulting in reduction of dust pollution.

- 2) Wet drills have been deployed at site to control the dust emission during the drilling.



Use of Wet Drill Machines for drilling purpose

- 3) Mobile water sprinklers and fog canon have been deployed at mine for sprinkling inside the project premises and along the haul roads.



28 KL Water Tanker



12 KL Water Tankers



**Fog canon deployed at
mine for dust control**



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- 4) Fixed Water Sprinklers have been installed and commissioned in the median of road to cover and control the dust generation at both side of the road due to vehicular movement:



Sprinkling of water through Fixed Water Sprinklers on roads inside Mines

- 5) Plantation in open spaces, safety zone, infrastructure area, along the road etc. is being carried out inside the project premises.



Plantation in open area of mines



Plantation near CHP area



Plantation along the road



Plantation in Safety Zone area of mines



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- 6) Coal is being transported to OPGC through the dedicated MGR (Merry Go Round Rail) system to minimize generation of dust due to road transportation.



Transportation of coal to OPGC through dedicated MGR rail network

- 7) Green belts have also been developed in the R&R colonies constructed by OCPL to increase the green cover in the buffer area to combat the dust pollution.
- 8) Transportation roads have been concreted and coal carrying trucks are optimally loaded.

Keeping the above measures / objectives in view, extensive tree plantation programme is also undertaken every year by OCPL leading to reduce dust pollution due to mining operation at Manoharpur Coal Mine.



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Sri Diptiranjana Singh
Sr. Asst. Manager (Mines)

HSE & SUSTAINABILITY



SAFETY IN MANOHARPUR COAL MINES

Mining poses several inherent, operational and occupational hazards and risks to the work persons. Hence, safety should always be the utmost priority for Coal Companies. Safety Management Plan is designed to ensure safety in order to achieve “Zero Harm Potential (ZHP)”.

Safety Policy of OCPL: Safety is always given prime importance in the operations of OCPL as embodied in the mission. OCPL has formulated a Safety Policy for ensuring safety in mines and implementation of which is closely monitored at several levels. Odisha Coal and Power Limited is committed to ensure Zero harm to the employees and the stakeholders by adapting best safety practices and continuous technological upgradation. In pursuit of our commitment, we strive to:-

- Continual improvement in Occupational Health and Safety (OHS) Management System to minimize OHS Risk.
- Adhere to applicable legal requirement.
- Involve all stakeholders as an integral part of Occupational Health and Safety Management System.
- Impart training and retraining to all employees to create awareness and enable them to fulfil their Occupational Health and Safety obligation.
- Make Safety a mandatory parameter for evaluating employees' performance.
- Incorporate appropriate Safety criteria into business decisions.
- Create a positive work environment for promoting work life balance.
- Use STOP work authority as an important tool to make the work place incident free.

Major Activities for improvement of Safety in OCPL

- Inspection of mines at regular basis for improvement of safety in mine.
- Fact finding into accidents and major incidences.
- Imparting specialized training to executives, mine officials and staffs.
- Framing of internal Circulars / Guidelines related to safety issues and monitoring implementation thereof.
- Maintenance of accidents / major incidents database.
- Analysis of mine accident statistics.
- Organizing Safety Committee meeting and monitoring recommendations / suggestions made during meeting.

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Measures taken for improvement of safety apart from compliance of statutory requirements and on-going safety related initiatives which are given below:

- 1. Conducting Safety Audit:** Safety Audit through ret'd. DGMS personnel for assessing safety status of mines and deficiencies pointed out during the said safety audits are being rectified.
- 2. Safety Management Plan (SMP)** – Site-specific & risk assessment based SMP have been prepared by involving mine officials & workmen and the same are being reviewed on regular basis.
- 3. Principal Hazards Management Plan (PHMP):** Principal Hazards Management Plans (PHMP) are formulated as a part of Safety Management Plan (SMP) to avert any mining incident.
- 4. Standard Operating Procedures (SOPs):** Site- specific Standard Operating Procedures (SOPs) for all Mining operations are framed and implemented.
- 5. Special Safety Drives on Safety Issues:** Safety drives on various safety issues are organized to improve standard of mines safety and enhance safety awareness amongst work persons.
- 6. Safety Training Programme:** Educational training program is organized.
- 7. Mechanism for improvement of geo-mining conditions.**
 - a. Deployment of more nos. of Surface Miners to eliminate blasting operation.
 - b. Deployment of relatively higher capacity HEMM.
- 8. Mechanism for Strata Management**
 - a. Scientific study for strata management from various reputed institute.
- 9. Mechanism for monitoring of mine environment:**
 - a. Use of Dust Sampler for detecting dust concentration.
 - b. Use of Continuous Ambient Air Quality Monitoring System to assess the ambient dust concentration.
- 10. Water Danger Management:**
 - a. Conducting Check Survey & Joint Survey to eliminate errors in mine survey.
 - b. Preparation and maintenance of Water Danger Plan.
 - c. Preparation and implementation of Monsoon Preparedness Plan.
 - d. Arrangement of Adequate Pumping Facilities with adequate capacity of Sumps.





Sri Subhra Ranjan Khandual
Asst. Manager (Safety)



HSE & SUSTAINABILITY

IMPORTANCE OF SAFETY FACTOR IN OPERATION AND MAINTENANCE INDUSTRY

In O&M industry, safety is more critical than in other industries. Every Operation team must take O&M health and safety quite seriously, because the accident and fatality (death) rates in this industry are among the highest in most countries around the world. It is also not true that a larger workforce attracts more accidents. Accident and fatality rates depend more on the safety culture of the Industry and the safety management system of the organization. Many Industries and Contractors still believe the myth that safety concerns will lead to greater cost and reduced productivity. The reality is that safety evaluation and control save money. The delays and total expenses following an accident are usually much higher than the original cost of establishing and maintaining safety standards. The costs associated with accidents and fatalities are as follows:

(a) Direct Costs (Insured):

- Human ill-health, injury, death, medical and hospital expenses.
- Transportation for first aid and for medical treatment, Property damage, destruction.
- Liability insurance costs (after worker's compensation), Repair and replacement expenses

(b) Administrative Costs:

- Budget allocations must be made for Safety director / coordinator
- Equipment and supplies Time (meetings, inspections, etc.)

(c) Indirect Costs (Uninsured):

- Impact on public, neighbourhood, Delay due to accidents, investigations.
- Wages to injured worker for time not worked, Loss of crew efficiency.
- Training new/substitute worker, Clean-up, equipment repair, stand-by.
- Rescheduling work, Post-accident extra safety supervision.
- O&M authority and civil fines, Legal fees
- Impact on profession, industry, Reputation of government.

Causes of Accidents

Apart from structural failure other causes of accidents must be understood and evaluated. Accidents may be caused by

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(a) Unsafe Acts:

- Use of defective equipment, Failure to use personal protective equipment.
- Unsafe material handling, Failure to follow safety procedures.
- Poor housekeeping, Attitude problems (horseplay etc.)

(b) Unsafe Conditions:

- Improper guarding of equipment, platform, Improper illumination, ventilation.
- Hazardous chemicals, explosives, etc., Improper dress
- Poor site layout, housekeeping, Defective tools and equipment y Poor tag-out and lock-out practices, Poor maintenance.
- Unsanitary conditions, Unsafe design and construction.

Factors Contributing to Accidents

(a) Human Factors: Job Factors

- Attitude (towards self, others) - Task
- Limitations (medical, physical) - Tools and equipment
- Training Materials / structural safety

(b) Environment Factors

- Physical (terrain, site, climate) - Social, political, legal
- Technological (new technology) - Economical (insufficient fees)
- Managerial (communications) - Time (early finish pressure)

All Employees of the company have legal, personal and economic reasons for reducing the accidents at their work place.

Benefits of Safety Training

- An evaluation of the most recent accidents and near-misses at the benefits or within the similar industry.
- Post-installation of new machinery or equipment and their handling.
- Associated corporate safety goals.
- Educate employees on the basics of health and safety.
- Increased focus by employees on their tasks.
- Increased job pleasure and confidence among employees.
- Increased employee inspiration.



HSE & Sustainability

- Increased effectiveness in processes, deriving in financial gain.
- Increased ability to adopt new skills and methods.
- Increase employee turnover.
- Increase company image, e.g., conducting ethics training.
- Increased productivity and satisfaction among personnel by keeping the workplace safe

Safety Training Target and Achievements

OCPL always proactively training needs program like workmen safety induction and job specific training organized at Various location of job site and VYC

Safety Training Photographs



Training on Electrical Safety



Training on Lock Out Tag Out



Training on CPR



Training on CPR

Training Statistics

Parameter	2020-2021	2021-2022	2022-2023
No of Training Program Conducted	248	213	173
No of Employees Trained	3808	3507	3119
Training Men-Hours	43404	43137	56777



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Top 10 Signs that Worker Engagement is supporting a positive shift in Safety Culture

- There is visible leadership commitment to safety at every level of the organization.
- All the workforce throughout the organization exhibit a basic working knowledge of safety and are risk aware.
- There is visible evidence of a financial investment in safety that is viewed and perceived as an investment, not a cost.
- Opportunities for improvement in safety are dealt with in a timely and efficient manner before issues or problems escalate which may cause accidents or incidents if ignored.
- Workforce communication on safety is clear, regular and transparent so the transfer of safety knowledge is successful.
- All levels of the workforce from top to bottom of the organization demonstrate meaningful involvement in safety.
- Leaders or Managers regularly visit worksites and engage one to one with the workforce to discuss problems to understand safety issues, make decisions and initiate quick action to prevent potential accidents or incidents. “Visual Safety Leadership Observed by the Workforce”
- Safety is the first item in the agenda of every meeting to send out a loud & clear message that safety is important, and the organization is not just paying lip service.



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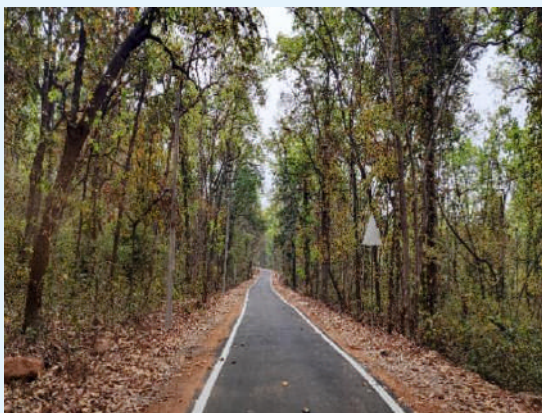
WE & THE COMMUNITY

Sri Abhaya Krushna Kar
Sr. Manager (CSR and R & R)

CORPORATE SOCIAL RESPONSIBILITY

Rural Infrastructure

OCPL has been working continuously for improvement of rural infrastructure in the project affected villages and periphery area. Following activities has been undertaken under Rural Infrastructure project in last financial year.



Construction of 3 KM Blacktop Road from Hemgir to Behera Munda



Construction of Bathing Ghat at Chandan Tula Pond at Hemgir

- On the request of the local administration of Hemgir 2755 Mtrs black top road has been constructed from Hemgir to Beharamunda village under Hemgir Gram Panchayat.

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- Renovation of Community Center at Jhadeswar Temple of Hemgir village.
- Police Station of Hemgir has been supported with one of Water cooler cum purifier for the use of local public visiting to the police station and constructed the boundary wall of Hemgir Police Station.
- Constructed the bathing Ghat of Chandanatula Pond of Hemgir.

All these project has been undertaken with the approval of SDPDS (Sundargarh District Periphery Development Society), Sundargarh.

Supply of Drinking Water:

Most of the villages in the Project area is dry in the summer season and the peoples are facing serious problem for getting the drinking water. As part of CSR program OCPL provided drinking water in the periphery village names Kathphali, Parmanpur, Durubaga, Katarbga, Sarbahal, Kiripsira and Hemgir. Above programs benefited to 3000-5000 population of near by villages.



Supply of safe drinking water during Summer Season to Project and periphery villages

Improvement of Quality Education:

Improve of quality education in different schools of the project different is one of the core sector of OCPL CSR program. Under this program, following activities have been completed in last financial year.

- Installation of 02 Mini science Center in Drubaga & Laikera High School.
- Supported local administration in Organising Block level talent Hunt Program "SURABHI"
- Sivananda Centenary school of Bhubaneswar has been supported with 05 nos digital class room for intermediate students.



Distribution of School Bag and Stationary Kit to 1600 School Student in Project periphery



Establishment of mini Science Centre at Laikera High School



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- One 32 seater Bus has been provided to Utkal Sangita Mahavidyalaya, Bhubaneswar, for the use of blinds students.
- Celebration of 15th August and 26th January' with the school children.
- Supply of School bags and stationary Kit to all the students of 27 School of Project area. Total 1700 students were benefited from the above Program.

Health & Sanitation

Under Health Sectors different Program hav been organised.

- Regular Health Check up Camps were organised at R&R colony-I &II and Kathphali Village.
- Local Health Administration has been supported for eradication of Malaria, Dengu, Corona and Pulse Polio Program.
- Under Pradhan Mantri TB Mukta Bharat Abhijan, OCPL has adopted the Hemgir Block as Ni-Khya Mitra and providing Nutritional Kit to 42 TB patients every Month. The Nutritional Kits includes 1 Kgs pf Pulses, 1.5 Kgs of Millet, 30 no of eggs, 1 Kgs of Protein Power, Mosquito Net and Blanket are also provided to all the families.



Distribution of Nutrition Kit to TB patients under Pradhan Mantri TB Mukta Bharat Abhijan (PMTMBA) as Ni-KhyaMitra



Free Medical Check-up and free distribution of medicine at Project affected villages

Celebration of International Women Day



Celebration of International Women Day at R&R colony

With joint collaboration of MART and OCPL, the International Women's Day was celebrated at R&R colony of New Manoharpur and Ghumudasan on 8th March 2023. The theme of the year was "Gender equality today for a sustainable tomorrow".



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More than 60 participants (all female) from SHGs, adolescent girls, and other women from the community actively participated in this program.

During the program a rally was organized across the village with slogans related to women rights and empowerment. The rally was inaugurated by the BDO Hemgir, Mr. Jagadish Chandra Mohanand. Towards creating awareness among general public, messages in banners & placards were made along with slogan with the marching of the rally in the community. The participants with active interest, enthusiasm and loud slogans, moved around the village. This process generated awareness among the public and the participants as well. On this occasion, a Jhoti competition was organized and prizes were distributed.

Sustainable Livelihood Program:

With broad objective to ensure that income of all DFs is doubled with respect to the Baseline income (BI) by the end of the intervention period, MART did a Baseline study and the Baseline Income has been arrived at by calculating the total income of all the original families (those residing in Manoharpur & Ghumudasan village as joint households prior to displacement) and dividing it with the total number of families resulting after displacement to R&R Colony.



Women Empowerment through Sustainable Livelihood Program for Project Displaced Families

As part our Corporate Social Responsibility Program, we have initiated a plantation program at our R&R colony-1 & 2. Each families has been supplied with 4 Nos of plants (Drumstick, Jack fruits, Mango & Guava) for backyard plantation. Also we have planted 1500 plants (Sapota, Jamun, Jack fruits, Mango & Guava) inside the colony (vacant area).



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CSR Program on Social Media



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Nutritional Support Program for the Hostel Inmates of Upper Primary School of R & R Colony, Manoharpur



CEO, OCPL, inaugurated two stalls of our SHGs in Adivasi Mela

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Odisha Coal and Power Limited

Zone-A, Ground Floor, Fortune Tower, Chandrasekherpur, Bhubaneswar-751023 | E-mail : connect@ocpl.org.in



Sri Omkar Joshi
Dy. Manager (Projects)

WE & THE COMMUNITY



LIFE IN OCPL MANOHARPUR TOWNSHIP

Finding Joy in a New Colony Amidst Natural Beauty

Nestled in Sarbahal Village near Hemgir, Sundargarh, the OCPL Manoharpur Township stands as a testament to the vision of a prosperous community. This residential colony, located in close proximity to the workplace and has been aimed to offer its residents a unique opportunity to enjoy a harmonious work-life balance, though there are unique circumstances and challenges. Despite the challenges posed by limited resources, the township's housing and infrastructure, dedication to security and safety, community development initiatives, and environmental considerations create an environment where joy thrives.

While some may view the limited resources as potential obstacles to finding joy, it is remarkable how the human spirit prevails, and individuals discover ways to embrace and cherish their existence. It is definite that a time will come and the residents will explore the ways in this new colony to find joy and contentment, even without having optimum resources at their disposal.

Housing and Infrastructure:

The OCPL Manoharpur Township features a diverse range of housing options, including 10 housing apartments with 115 units. Under the visionary leadership of Mr. Sariputta Mishra, CEO of OCPL, the unique names of the apartments in OCPL Manoharpur Township were carefully chosen to reflect the rich tapestry of Hindu mythology. Drawing inspiration



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from the plants associated with Nava Graha, these names add a touch of cultural significance and symbolism, creating a truly special living experience for the residents. Mr. Mishra's attention to detail and commitment to incorporating cultural elements have contributed to the distinct character of the township. This creative approach to housing names adds cultural hint to the living experience within the colony. Residents can take pride in their homes, which reflect the rich tapestry of Indian mythology and traditions.

Sl. No.	Block	Building Name	Number of Units
1	Block – A	ARKA BHAWAN - (STAR-SUN)	5
2	Block – B	PALASHA BHAWAN - (STAR-MOON)	5
3	Block – C	KHADIRA BHAWAN - (STAR-MARS)	12
4	Block – D	APAMARGA BHAWAN - (STAR-MERCURY)	12
5	Block – E	ASHWATHA BHAWAN - (STAR-JUPITER)	16
6	Block – F	UDUMBARA BHAWAN - (STAR-VENUS)	12
7	Block – G	SHAMEE BHAWAN - (STAR-SATURN)	16
8	Block – H	DOORVA BHAWAN - (STAR-RAHU)	24
9	Block – I	DARBHAH BHAWAN - (STAR-KETU)	12
10	Guest House	ATITHI BHAWAN	1
11	Facility Management	SEWA BHAWAN	1

In addition to the unique housing names, the colony offers essential amenities such as a guest house for visitors, a school for the education of children, a dispensary to address healthcare needs, an indoor stadium to encourage physical fitness, a club house for social gatherings, and a temple for spiritual solace. These facilities are designed to provide residents with a comfortable and well-rounded living environment, fostering a sense of belonging and satisfaction within the colony.

Work-Life Balance:

With its close proximity to the Manoharpur coal mine and the Office at Samanwaya Bhawan, it is expected that OCPL Manoharpur Township will ensure an exceptional work-life balance for its residents. The short commute will allow employees to spend more time with their families and engage in recreational activities, contributing to a higher quality of life. The colony will serve as a sanctuary where individuals can recharge and enjoy the company of loved ones after a fulfilling day of work, strengthening the bonds within families and the community as a whole.



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Security and Safety Measures:

Recognizing the importance of security and safety, the OCPL management has prioritized the well-being of its residents in the colony. Efforts are being made to ensure a robust security system, including gated entry points, surveillance systems, and dedicated security staff. By implementing these measures, the colony aims to provide residents with peace of mind, fostering an environment where they can thrive and find joy without unnecessary worries.

Community Engagement:

One of the most remarkable aspects of life in the new colony is the strong sense of community that blooms within its borders. The residents have started associating together to create a vibrant and enjoyable atmosphere. I dreamed about the Potluck dinners, game nights, and talent shows will be regular occurrences, where people showcase their skills, talents, and hobbies. Through these gatherings, bonds will be formed, friendships will be forged, and a strong support system will definitely be created.



The sense of belonging and togetherness acts as a catalyst for joy, allowing residents to appreciate the amity that exists within their community. The involvement of residents in decision-making processes, such as through community meetings and feedback mechanisms, will ensure that their voices are heard and that the township continues to evolve in alignment with their needs and aspirations.

In the serene evenings of OCPL Manoharpur Township, the courtyard of Doorva Bhawan becomes a hub of camaraderie and lively conversations. After office hours, friends and coworkers gather here, creating a warm and welcoming atmosphere. Here, they exchange their feelings, share their views, and engage in meaningful discussions. The laughter, the stories, and the sense of belonging that permeate these gatherings further strengthen the bonds between the staff, fostering a sense of unity and joy within the community.

Additionally, these evening gatherings serve as a delightful way for the residents to beat the summer heat. The open space offers respite from the scorching



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summer, creating a cool and comfortable space for friends and coworkers to gather. As they enjoy each other's company, they also benefit from the pleasant breeze that circulates in the area, providing a refreshing escape from the summer heat. These gatherings not only foster social connections but also provide a cool and enjoyable environment during the warmer months.

Environmental Considerations:

While the colony may lack certain amenities, one of the remarkable aspects of OCPL Manoharpur Township is its location adjacent to the picturesque hill forest. The natural surroundings compensate for it in abundance. Residents have the privilege of being surrounded by natural beauty, providing a serene and refreshing environment. The township embraces its responsibility to protect and preserve the environment, with initiatives aimed at maintaining a sustainable lifestyle. This includes implementing waste reduction practices, recycling programs, and energy-efficient measures. Residents can find joy in the tranquility and connection with nature that this unique setting provides.

Nestled amidst scenic landscapes, residents have the option of making the most of the nearby recreational areas, engaging in outdoor activities such as hiking and nature walks. By immersing themselves in nature, they could form a profound connection with the earth, finding joy in the simplicity and tranquility it provides. It is through these natural encounters that residents gain a deeper appreciation for the world around them and derive happiness from the resources readily available to them.

Sports and Fitness:

Physical well-being and an active lifestyle are not compromised. Residents in the new colony are having options of finding innovative ways to engage in sports and fitness activities, encouraging one another to maintain a healthy lifestyle. Informal sports matches, exercise groups, and fitness challenges will definitely become avenues for joy and personal growth. The spirit of friendly competition and the shared pursuit of physical well-being will contribute to a sense of fulfillment and happiness among the residents.

Conclusion:

Life in a new residential colony near a coal mine may present challenges and limitations, but the indomitable human spirit shines through. OCPL Manoharpur Township in Sarbahal Village stands as a testament to the possibility of finding joy and contentment in a new colony, even with limited resources. Through thoughtful housing and infrastructure, a focus on work-life balance, robust security measures, community development initiatives, and a commitment to environmental considerations, the township has created an environment where residents can thrive. Their ability to adapt, engage, and appreciate the beauty of their surroundings allows them to find joy in their everyday lives. As OCPL Manoharpur Township continues to grow and evolve, it will undoubtedly serve as a model for sustainable and fulfilling.



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Events & Celebrations



BAISAKHI AWARD FOR OCPL



OCPL WON THE FIMI-NMDC AWARD 2021-22, FOR SOCIAL RESPONSIBILITY



CORPORATE EXCELLENCE AWARD IN THE INTERVIEW TIMES STATE BUSINESS LEADERSHIP AWARD SUMMIT 2023



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F. No. CCSD-51013/9/2018-CCSD
Government of India
Ministry of Coal

Room No. 622-A, Shastri Bhawan,
New Delhi, dated: 3rd April 2023

Office Memorandum

Subject: Star Rating of all coal and lignite mines for the years 2020-21 and 2021-22 – regarding.

The undersigned is directed to say that the assessment of Star Rating of all coal/lignite mines for the base years 2020-21 and 2021-22 were reviewed by Hon'ble Minister of Coal on 10th April, 2023. The company wise number of mines under each rating UG, OC and mixed for the said periods 2020-21 and 2021-22 are attached at Appendix. The mine-wise ratings of all mines for the said periods 2020-21 and 2021-22 are also enclosed as Annexure A and B.

2. NIC is requested to update the above data on the dedicated portal of Star Rating of this Ministry under intimation to the undersigned please.


(Hitar Singh)
Under Secretary to GOI
e-mail hitar.singh65@nic.in

To, Technical Director (NIC),
Ministry of Coal

File No. CCSD-51013/9/2018-CCSD (Computer No. 340828)
Annexure B

Star Rating of OC mines for the Base year 2021-22


S.No.	Name of the Coal Mine	Company Name	Type of Mine	Base Year	Final Marks % awarded by CCO	Star Rating
1	NEYVELI LIGNITE MINE I	NLCIL	OC	2021-22	96	Five Star
2	QUARRY AB	TSL	OC	2021-22	96	Five Star
3	BARSINGAR LIGNITE MINE	NLCIL	OC	2021-22	95	Five Star
4	NIGAH OPENCAST PROJECT	NCL	OC	2021-22	95	Five Star
5	DULANGA COAL MINING PROJECT	NTPC	OC	2021-22	94	Five Star
6	KRISHNASHILA	NCL	OC	2021-22	94	Five Star
7	PARSA EAST & KANTA BASEN OPENCAST COAL MINE	RRVUNL	OC	2021-22	94	Five Star
8	AMBLA(NORTH) COAL MINE MAHAULI	JPVL	OC	2021-22	93	Five Star
9	MANOHARPUR OPENCAST COAL MINE	OCPL	OC	2021-22	93	Five Star
10	NEYVELI LIGNITE MINE-II	NLCIL	OC	2021-22	93	Five Star





GOVERNMENT OF INDIA
MINISTRY OF COAL


Star Rating of Coal Mines

 2023/03/24

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 Welcome: Manoharpur Opencast Coal Mine

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STAR RATING OF AN OPENCAST COAL MINES

MODULE	MAXIMUM POINTS IN MODULE	Rating Points By			PERCENTAGE		
		Mines User	Reviewer	Controller	Mines User	Reviewer	Controller
MODULE 1 - MINING OPERATIONS RELATED PARAMETERS	17	17	17	17			
MODULE 2-ENVIRONMENT RELATED PARAMETERS	24	23	21	21			
MODULE 3-ADOPTION OF TECHNOLOGY: Best MINING PRACTIESS	10	8	8	8			
MODULE 4-ECONOMIC PERFORMANCE RELATED PARAMETERS	15	14.4	13.8	14.4			
MODULE 5-REHABILITATION & RESETTLEMENT RELATED PARAMETERS	8	8	8	8			
MODULE 6-EMPLOYEE/WORKER RELATED COMPLIANCE PARAMETERS	8	8	7.6	7.6			
MODULE 7-SAFETY RELATED PARAMETERS	16	14	14.4	14.4			
GRAND TOTAL	98	93	90	91	95%	90%	91%

PERCENTAGE SCORE		STAR RATING
91 TO 100%		5 STAR
81 TO 90%		4 STAR
71 TO 80%		3 STAR
61 TO 70%		2 STAR
41 TO 60%		1 STAR
0 TO 40%		NO STAR

MINE DETAILS	
NAME OF THE COAL MINE	Manoharpur Opencast Coal Mine
DISTRICT STATE	Sundargarh Odisha
Star Rating	
MINE USER	5 Star
Reviewer	4 Star
Controller	

5STAR RATING FOR OCPL



Events & Celebrations



8MTPA CAPACITY COAL HANDLING PLANT AT MANOHARPUR COAL MINES WAS INAUGURATED BY HON'BLE MINISTER SHRI PRATAP KESHARI DEB ON 15TH AUGUST 2022.



"SAMANWAYA BHAWAN" THE ADMINISTRATIVE OFFICE WAS INAUGURATED BY HON'BLE CHIEF SECRETARY, SHRI SURESH CHANDRA MOHAPATRA (IAS), GOVERNMENT OF ODISHA ON 3RD SEPT. 2022



TOWNSHIP WAS INAUGURATED BY HON'BLE PRINCIPAL SECRETARY & CHAIRMAN, OCPL SHRI NIKUNJA B. DHAL (IAS), GOVERNMENT OF ODISHA, ON 11TH DECEMBER 2022



INAUGURATION OF NEWSLETTER



INAUGURATION OF PRIMARY SCHOOL



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Zone-A, Ground Floor, Fortune Tower, Chandrasekherpur, Bhubaneswar-751023 | E-mail : connect@ocpl.org.in

Events & Celebrations



CONTRIBUTED RS.20 CRORES TO CHIEF MINISTER'S RELIEF FUND ON 16TH JANUARY 2023. CEO, OCPL IS HANDING OVER THE CHEQUE TO CHIEF SECRETARY ODISHA, IN PRESENCE OF HON'BLE. MINISTER, ENERGY AND PRINCIPAL SECRETARY, ENERGY DEPARTMENT, GOVT. OF ODISHA.



DONATED A COLLEGE BUS FOR THE BLIND STUDENTS OF UTKAL SANGITA MAHAVIDYALAYA, BHUBANESWAR



OCPL HAS BEEN RECOGNIZED BY MINISTRY OF HEALTH & FAMILY WELFARE, GOI, TOWARDS ITS WORK FOR THE PM'S TB MukT BHARAT ABHIYAN AND GIVEN THE CERTIFICATE AS NI-KSHAYAMITRA. WE ARE PROVIDING NUTRITION SUPPLEMENT TO ALL THE TB PATIENTS OF HEMGIR BLOCK.



OCPL CONTINUES TO WORK ON THE OVERALL DEVELOPMENT AND ECONOMIC GROWTH OF THE STAKE HOLDERS AT MANOHARPUR, SUNDARGARH AREA



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NATIONAL ROAD SAFETY WEEK CELEBRATION IN OCPL



ANNUAL MINES SAFETY FORTNIGHT CELEBRATION IN OCPL



VIGILANCE AWARENESS WEEK IN OCPL

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NATIONAL ELECTRICAL SAFETY WEEK 2023 IN OCPL



SAFETY RALLY & CULTURAL PROGRAMME ON ANNUAL MINES SAFETY FORTNIGHT-2022

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Odisha Coal and Power Limited

Zone-A, Ground Floor, Fortune Tower, Chandrasekherpur, Bhubaneswar-751023 | E-mail : connect@ocpl.org.in

Events & Celebrations



SIGNING CEREMONY OF 1ST AMENDMENT TO SHARE HOLDER'S AGREEMENT



DISTRIBUTED MINING SIRDAR APPRENTICESHIP LETTER TO 10NOS CANDIDATES, SELECTED FROM THE MANOHARPUR PROJECT DISPLACED FAMILIES ON 24TH APRIL 23.



PLANTATION PROGRAMME IN VARIOUS OCCASIONS



CELEBRATION OF OCPL'S 8TH FOUNDATION DAY



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Events & Celebrations



GANESH PUJA IN OUR CORPORATE OFFICE



OCPL FAMILY MEET



VISHWAKARMA PUJA IN OUR CORPORATE OFFICE



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Events & Celebrations



OCPL DISTRIBUTED BUTTER MILK AND LASSI DURING SITAL SASTHI FESTIVAL IN SAMBALPUR



TEMPLE PUJA AT TOWNSHIP



SARASWATI PUJA AT OUR CORPORATE OFFICE



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ART WORK BY OUR STAFFS



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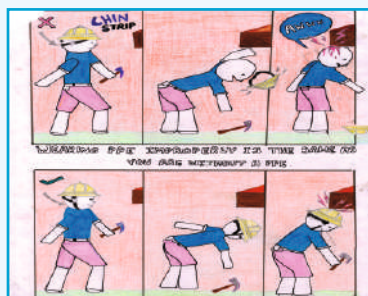
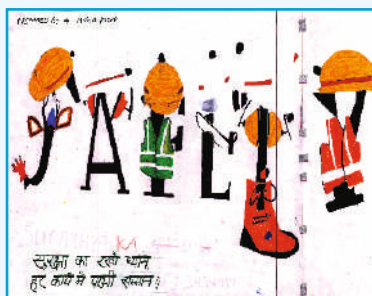
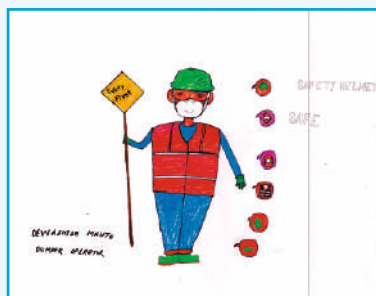
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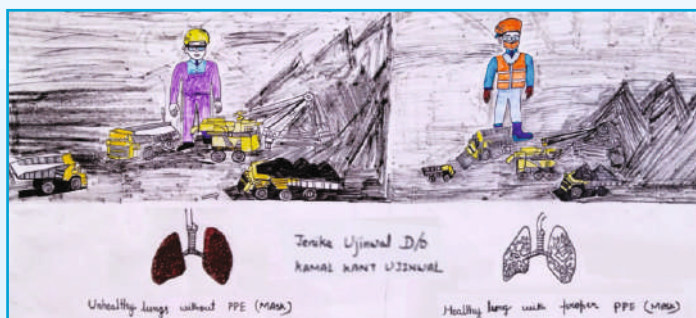
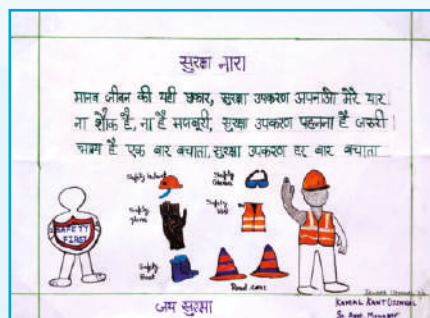
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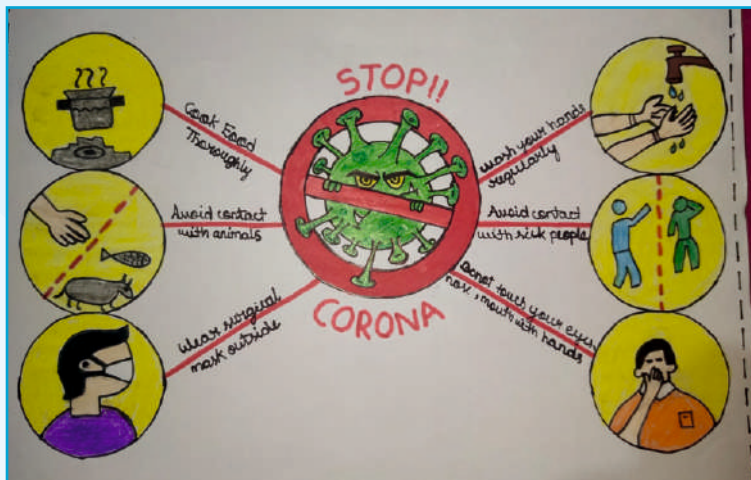
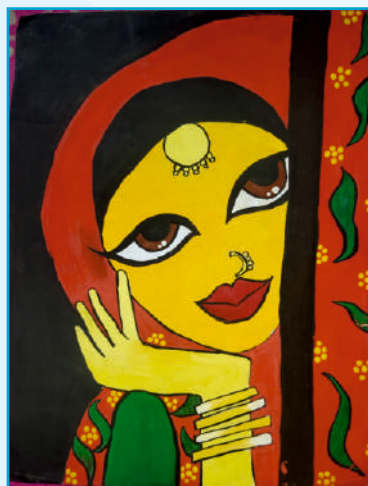
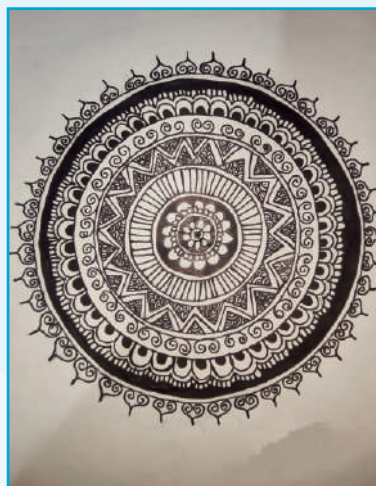
Art Gallery



ART WORK BY OUR KIDS



MISS JENIKA UJINWAL D/O MR. KAMALKANT UJINWAL



MISS KRUSHNA ANANDAMAYEE KAR D/O MR. ABHAYA KRUSHNA KAR



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Media Highlights



Odisha Coal and Power Limited

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Media Highlights





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