

KALEIDO SCOPE

STANDING CONFERENCE OF PUBLIC ENTERPRISES



SCOPE's tribute to Mahatma Gandhi's values of Ethical Leadership on Martyrs' Day



समाचार अतुल सोबती महानिदेशक, स्कोप
NEWS FLASH विधानसभा चुनाव के लिए उम्मीदवारों की घोषणा

SCOPE's views on Union Budget 2023 telecast on DD News



DG, SCOPE meets Shri Ali R. Rizvi, Secretary, Department of Public Enterprises



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The Lignite Giant now Ignites the Nation with Clean & Green Energy...



For more than six glorious decades, NLC India Limited has been a forerunner amongst the Public Sector Undertakings in the country in the energy sector, contributing to a lion's share in lignite production and significant share in thermal power generation. Today the company is mining 52.10 Million tonnes of lignite and coal Per Annum and generating 6061 MW of Thermal power including its subsidiaries. NLCIL has big dreams to become a 17,171 MW company by 2030. It has plans to enhance its lignite and coal mining capacity to 84.10 Million Tonnes Per Annum.

To reap the benefits of the renewable energy revolution, as a part of the National Solar Mission, Government of India has set a target to achieve 1,75,000 MW of Solar Power by 2022. NLCIL has an ambitious plan to establish 6031 MW of renewable energy projects including 200 MW Wind Power Projects in Tamilnadu and various states. Presently, the Company has a total renewable energy capacity of 1421 MW which includes 1370 MW of Solar Power Plants and 51 MW Wind Power Plant. NLCIL is the first CPSE to cross 1 GW capacity in solar power generation and became the member of International Solar Alliance (ISA)

Renewable Energy Projects under operation

- 141 MW Solar Power Projects (SPP) including Roof top solar project at Neyveli. A 10 MW Solar Power Project in Neyveli, under Mini Smart City Scheme is under construction.
- 1209 MW Solar Power Projects at Tirunelveli, Virudhunagar, Ramanathapuram and Thoothukudi Districts of Tamilnadu.
- 200 KW, R&D Pilot Scale Floating SPP in Neyveli New Thermal Power Project's Raw Water Reservoir.

- 20 MW SPP, integrated with 8 MWhr Battery Energy Storage System at South Andaman Island. This is the largest battery bank in India for catering the variation in solar insolation.
- 51 MW (34 x 1.5 MW) Wind Power Project at Tenkasi District in Tamilnadu.

Renewable Energy Projects under consideration

- A JV Company, "Coal Lignite Urja Vikas Pvt Limited" is incorporated on 10.11.2020 with Coal India Limited for establishing 3000 MW Solar Power Projects at various parts of the country.
- An MoU was signed with Assam Power Distribution Company on 09-08-2022 to develop 1000 MW Solar Power Project in the State of Assam. Another MoU was signed with Grid Corporation of Odisha (GRIDCO) on 01.12.2022 for developing Renewable Energy and Green Hydrogen Projects in Odisha.
- Won bid for 660 MW Solar Power Projects, floated by Solar Energy Corporation of India (SECI) and Indian Renewable Energy Development Agency (IREDA)



NLC India Limited

'Navratna' - Government of India Enterprise

Registered Office : 135, EVR Periyar High Road, Kilpauk, Chennai - 600 010.

Corporate Office : Block-1, Neyveli - 607 801, Cuddalore District, Tamil Nadu, India

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SCOPE
PROMOTING EXCELLENCE



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KALEIDO SCOPE
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Message by Chairperson

The recently announced Union Budget 2023-24 presents the blueprint for the next twenty five years towards the centenary year of our nation's birth. The intent of an empowered and inclusive economy has been backed by several innovative and ambitious interventions in the budget. Based on the seven focus areas of Inclusive Development, Reaching the Last Mile, Infrastructure & Investment, Unleashing the Potential, Green Growth, Youth Power, and the Financial Sector, this budget aims at giving a strong impetus to growth, job creation, creation of opportunities for the youth, and macro-economic stability.

As per the Economic Survey 2023 estimates, India's Gross Domestic Product (GDP) is expected to have a growth in the range of 6 to 6.8%. The optimistic growth forecast, in the face of a predicted global slow down, stems from India's positive rebound of economy after the pandemic with increase in Production activity, Capital expenditure and private consumption. This estimate of increase in GDP shall take us closer to our goal of being a \$5 trillion economy. With their presence in strategic sectors of the economy, Public Sector Enterprises (PSEs) will play a key role in achieving these aspirations soon.

Looking ahead, PSEs shall have to play a significant role in the growth story by re-engineering and reinventing the business wheel. Playing a multifarious role as nation builders,

PSEs will have to play a critical role in the global value chain to make the country self-reliant.

PSEs are in the forefront of gender neutrality in their policies. This is reflected in the increasing representation of women in PSEs. While we have more women in leadership roles today, the pool is still not large. The Forum of Women in Public Sector (WIPS), under the aegis of SCOPE is conducting its upcoming National Meet focussing on enhanced empowerment of Women with a theme of '**Shakthi 5S - Strong, Sincere, Smart, Synergetic and Sustainable**'. I wish the WIPS event a huge success with large participations and constructive deliberations.

Commemorating the 75th Martyrs' Day, SCOPE recently organized a Symposium on 'Ethical Leadership for Organization Integrity: The Gandhian Way.' We were privileged to be joined by Shri Rohit Kumar Singh, Secretary, Department of Consumer Affairs; Dr. Raghunath Mashelkar, Former DG, CSIR and Chairman, National Innovation Foundation and other dignitaries who reminisced Gandhiji's teachings on ethical leadership for organizational integrity and excellence.

It is SCOPE's continued commitment to highlight the endeavours and initiatives of PSEs, and this issue of KALEIDOSCOPE encapsulates the recent celebration of Republic Day by several PSEs across the country.

In the upcoming months, SCOPE will continue to bring renowned personalities and experts for the capacity enhancement of PSEs in the country. I look forward to the participation and feedback of our members.

Soma Mondal
Chairperson, SCOPE

SCOPE FORUM OF CONCILIATION AND ARBITRATION (SFCA)

With a view to expedite settlement of disputes and reduce avoidable expenditure by PSEs, a need was felt by Standing Conference of Public Enterprises (SCOPE), an Apex Body of Public Sector Enterprises, to institutionalize the prevailing system of arbitration which led to formation of SFCA in 2003. The forum was formally inaugurated by Shri Santosh Gangwar, the then Hon'ble Minister of State for Heavy Industries & Public Enterprises and Parliamentary Affairs at SCOPE Complex on 9th January 2004.

WHY SFCA?

Empanelment of more than 400 Arbitrators/ Conciliators

- Retired Judges of Supreme Court, High Courts,
- Retd. Secretaries, Joint Secretaries of Government of India
- Chief Executives, Directors and senior officials of PSEs
- Professionals including Advocates, Chartered Accountants, Engineers & Surveyors etc.

Complete services for conducting Arbitration

- A dedicated Forum administering, overseeing and conducting arbitration and conciliation proceedings.

Cost effective and timely dispute settlement

- Settling disputes between PSEs and their associates within shortest possible time at more economical and cheaper cost in comparison to other institutions.

Dedicated Infrastructure

- Exclusive Arbitration Hall having seating capacity of 15 persons.
- Facility of provision of halls with higher capacity in SCOPE Convention Centre at SCOPE Complex, Lodhi Road and SCOPE Minar, Laxmi Nagar, New Delhi.

Facilities and provisions

- Provision of modern equipments and facilities such as projector for live streaming of proceedings on a large screen, stationery etc.
- Arrangements of high tea/lunch on request of the parties.

Capacity Building

- Executive development programmes and workshops on various aspects of Alternate Dispute Resolution process (ADR).
- Annual National Seminar on various aspects of Arbitration and Conciliation.



For any queries relating to SFCA, you may contact

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Associate with us and adopt SFCA Clause for resolving disputes in a cost and time effective manner



Director General's Desk

With the country embarking on a new journey with the first budget of Amrit Kaal, SCOPE would like to compliment the Hon'ble Finance Minister for presenting a 'growth-oriented inclusive budget for all.' As the impetus of the budget is on infrastructure strengthening, green environment, and skill development, while maintaining fiscal consolidation, this Budget is bound to have a multiplier effect on both social and economic sectors.

As India treads towards becoming a 'Vishwa guru', this budget will spur inclusive growth, and create employment opportunities while accelerating India's role in the global economy. SCOPE hails the focus on infrastructure in the budget that will play a pivotal role in the development of the country.

SCOPE has been bringing together renowned economists, and financial experts to fathom the impact of the Budget on the industry and corporate sector. This year as well, SCOPE brings together Shri N.R. Bhanumurthy, one of the country's leading economists, experts from Deloitte India, and ICAI to simplify and explain the implications of the Union Budget 2023.

Moving forward, into the Amrit Kaal, the nation has been celebrating the rich heritage and culture of India. Mahatma Gandhi, the Father of the Nation has inspired millions across generations. Paying ode to the epitome of peace, SCOPE commemorated the 75th Martyrs' Day with an engrossing session on 'Ethical Leadership for Organization Integrity: The Gandhian Way.'

Continuing to organize unique programs in different regions of the country, SCOPE plans to organize more programs on topics of relevance for PSEs in the coming months. Interactive workshops on Corporate Social Responsibility by CPSEs will soon be organized by the Department of Public

Enterprises and SCOPE for capacity enhancement of the fraternity.

Empowering women employees in PSEs has been a key endeavour of SCOPE and I am happy to participate in the upcoming National Meet of the Women in Public Sector (WIPS) under the aegis of SCOPE to be held in Kolkata.

Also, as part of strengthening women employees in PSEs, SCOPE will be conducting a program on Leadership Development for Women Executives in the coming months and I hope we will see diverse participation of women executives from across the country.

SCOPE will also continue to associate with academia, and nationally and internationally renowned organizations to promote conducive learning and skill development in PSEs.

Programmes & Initiatives launched (since last issue of KALEIDOSCOPE)
SCOPE celebrates Republic Day- 26th January 2023
SCOPE's Symposium on 'Ethical Leadership for Organisation Integrity: The Gandhian Way', commemorating 75 th Martyrs' Day- 30th January, 2023
Programmes & Initiatives in the offing
SCOPE Program on 'Decoding the Union Budget 2023'- 2nd February, 2023
National Meet of Women in Public Sector (WIPS) under the aegis of SCOPE- 10th & 11th, February 2023
Interactive Workshop on 'Corporate Social Responsibility by CPSEs'- 2nd & 3rd March, 2023 (Tentative)
Workshop on Leadership Development for Women Executives
MoU between SCOPE & GIZ, Germany

Atul Sobti
Director General, SCOPE

SCOPE News

SCOPE organises Symposium on 'Ethical Leadership for Organization Integrity: The Gandhian Way'



(L-R) Shri Rohit Kumar Singh, Secretary, Department of Consumer Affairs; Dr. Raghunath Mashelkar, Former DG, CSIR and Chairman, National Innovation Foundation; Dr. Shobhana Radhakrishna, Eminent Gandhian and Shri Atul Sobti, DG, SCOPE during the Symposium.

Commemorating the 75th Martyrs' Day, SCOPE organized a Symposium on 'Ethical Leadership for Organization Integrity: The Gandhian Way'. The webinar was addressed by Shri Rohit Kumar Singh, Secretary, Department of Consumer Affairs; Dr. Raghunath Mashelkar, Former DG, CSIR and Chairman, National Innovation Foundation; Shri Atul Sobti, DG, SCOPE and Dr. Shobhana Radhakrishna, Eminent Gandhian on 30th January, 2023. The symposium was participated in large numbers from across the country.



Consumer Affairs @jagograhakjago · Jan 30

Sh. Rohit Kumar Singh, Secretary, DoCA, Govt of India addressed the webinar organised by the "Gandhian Forum for Ethical Corporate Governance" of @PSUSCOPE. He spoke about the relevance of the Gandhian principles and practices and the significant aspects of the corporate world.



Piyush Goyal and 6 others

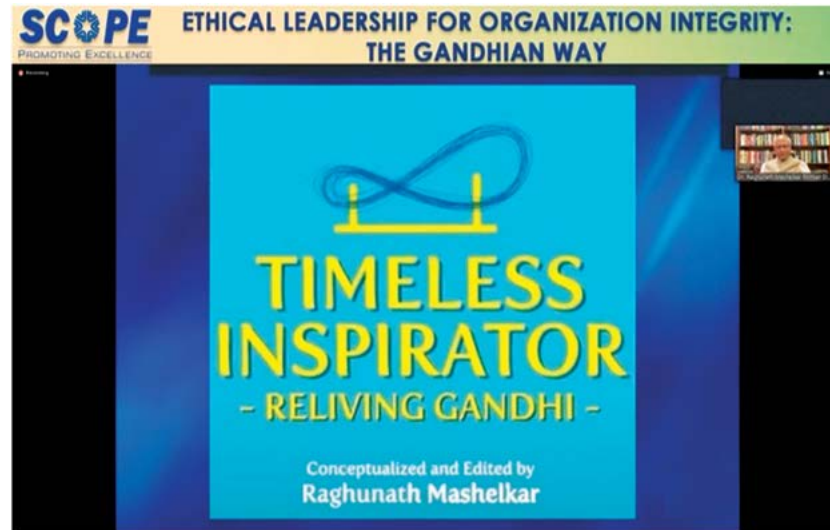
1 6 19 1,436

Shri Rohit Kumar Singh, Secretary, DoCA's Tweet about the Symposium.

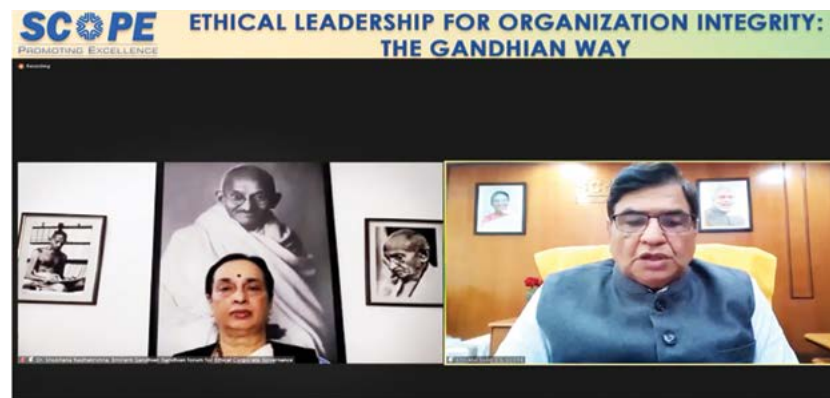
In his address, the Chief Guest of the symposium, Shri Rohit Kumar Singh spoke about Gandhian principles, practices, and their relevance in today's corporate scenario. He signified the importance of appropriate, thoughtful, responsible and fair behaviour towards all. Shri Singh also reiterated the importance of the code of conduct of truthfulness in leadership as one of Gandhiji's important teachings and also that in order to succeed as a leader it is important to be consistent in our actions, values, methods, principles, and expectations.

Dr. Raghunath Mashelkar through his thoughts on the Father of the Nation, whom he considers a timeless Inspirator, reiterated the teachings and values of Gandhiji as an inspiration to past, present, and generations to come. He said following the contagious inspiration of Gandhiji, can help overcome several challenges of today's time. He also shared his experience of sharing Gandhian values around the world and mentioned Gandhian Engineering- which seeks inspiration from his two teachings, first- earth provides enough to satisfy every man's need, not every man's greed, and every invention of science should be made for the benefit of all human beings.

Dr. Shobhana Radhakrishna echoing the thoughts and teachings of Gandhiji, in her message shared that his vision and actions still find an endearing presence in the world today. She added that Gandhiji was the messenger of peace who inspired all to follow not only political



Dr. Raghunath Mashelkar, Former DG, CSIR and Chairman, National Innovation Foundation during his presentation on Timeless Inspirator-Reliving Gandhi.



Dr. Shobhana Radhakrishna, Eminent Gandhian and Shri Atul Sobti, DG, SCOPE during the webinar.

but economic and spiritual democracy. She advised all to retain and imbibe his virtuous teachings in their day-to-day life for sustainable growth personally and professionally.

Shri Atul Sobti in his address said that Mahatma Gandhi, our father of the nation has been an inspiration for all, and SCOPE through its Gandhian Forum for Corporate Governance has been earmarking Martyrs' Day for many years. Talking about the transforming times, and perplexing situations for leaders,

DG, SCOPE spoke about the urgent need to follow Gandhian values to excel in today's times. Prioritizing values rather than an easy way out, he suggested that organizations need to equip themselves with the highest benchmarks of Corporate Governance and adopt Gandhiji's ethical style of leadership and management.

Recording of this and other SCOPE Webinars are available on SCOPE's Website: www.scopeonline.in

SCOPE hails a 'growth-oriented inclusive budget for all'

SCOPE compliments the Union Finance Minister in presenting a 'growth-oriented inclusive budget for all' with impetus on infrastructure strengthening, green environment and skill development, while maintaining fiscal consolidation.

While appreciating the budget, Shri Atul Sobti, DG, SCOPE said that the budget is likely to have a multiplier effect in both social and economic sectors. "Overall, a positive budget which is likely to give the necessary push to the country for a global role through landmark outlay for infrastructure strengthening, new schemes, incentivising domestic industries, focussing on inclusive development, impetus on skill development, moving towards simplifying regulations for ease of doing business and green initiatives leading to a net zero economy", he added.

Interface with Stakeholders



Shri Atul Sobti, DG, SCOPE met Shri Ali R. Rizvi, Secretary, Department of Public Enterprises (DPE) to offer New Year greetings and apprised on SCOPE's latest activities.

DG, SCOPE's Quote featured in Compendium Titled 'Climate Dialogue Series 2022-India' #LetsTalkClimate released by the MoEFCC and GIZ jointly at COP27



The Climate Dialogue Series 2022 - India: The Leaders

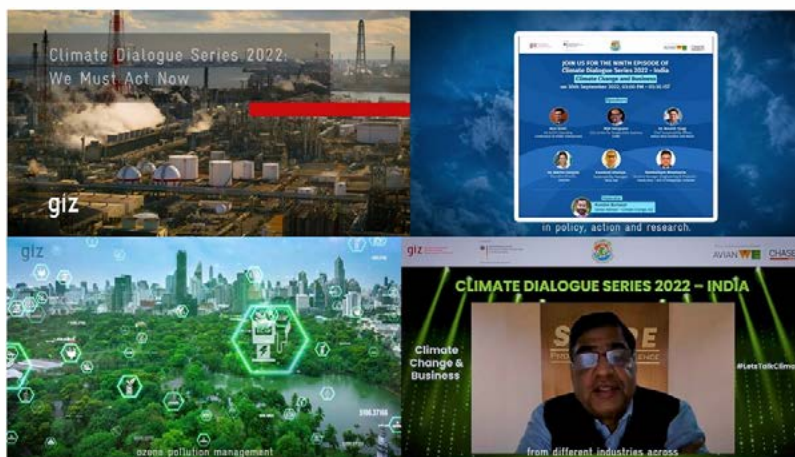


Atul Sobti

Director General, SCOPE (Standing Conference of Public Enterprises)

If India wants to meet its climate goals, public sector enterprises need to come forward, and they have. They have aligned their goals to the national agenda, which is difficult as businesses get affected tremendously. However, changes are being made, and most public sector enterprises are moving away from conventional power projects towards renewable sources. Many technological developments are taking place, taking us one step closer towards net zero emissions. For example, Indian Railways have undergone 80% of electrification, and 100% is likely to be achieved by 2024”.

Shot of video on the Compendium



SCOPE in Media



3.2.2023 Pg no : 22

GROWTH ORIENTED BUDGET

SCOPE, apex body of Public Sector Enterprises compliments the Hon'ble Finance Minister in presenting a "growth-oriented inclusive budget for all" with impetus on infrastructure strengthening, green environment and skill development, while maintaining fiscal consolidation. While appreciating the Budget, Atul Sobti, DG, SCOPE said that the Budget is likely to have a multiplier effect in both social and economic sectors. "Overall, a positive budget which is likely to give the necessary push to the country for a global role through landmark outlay for infrastructure strengthening, new schemes, incentivising domestic industries, focussing on inclusive development, impetus on skill development, moving towards simplifying regulations for ease of doing business and green initiatives leading to a net zero economy", he added.



27.07.2022 Pg no : 16

SCOPE - ICAI collaborate for capacity enhancement



SCOPE and ICAI collaborated for capacity enhancement and knowledge building by signing an outcome-based MoU. This collaboration focuses on providing research work in innovative practices and business solutions to PSEs while providing industrial facilitation by way of clarifications on accounting treatments and policies.

The MoU is in continuation of SCOPE's endeavours to provide PSEs with opportunities for capacity building in resilience and expertise.



3.2.2023 Pg no : 20



SYMPOSIUM- SCOPE

SCOPE organized a Symposium on 'Ethical Leadership for Organization Integrity: The Gandhian Way' to commemorate 75th Martyrs' Day. RK Singh, Secy. DCA, A.Sobti, DG, SCOPE & R. Mashelkar, former DG, CSIR graced the occasion.



31.1.2023 Pg no : 10

SCOPE's tribute to Mahatma Gandhi's values of Ethical Leadership



Commemorating the 75th Martyrs' Day, Standing Conference of Public Enterprises (SCOPE) organized a Symposium on 'Ethical Leadership for Organization Integrity: The Gandhian Way'. The occasion was addressed by Rohit Kumar Singh, Secretary, Department of Consumer Affairs; Dr. Raghunath Mashelkar, Former DG, CSIR and Chairman, National Innovation Foundation; Atul Sobti, Director General, SCOPE and Dr. Shobhana Radhakrishna, Eminent Gandhian. The dignitaries reminisced Gandhi's teachings on ethical leadership for organizational integrity and excellence. The symposium was participated in large numbers from across the country.

Leadership for Organization Integrity: The Gandhian Way'. The occasion was addressed by Rohit Kumar Singh, Secretary, Department of Consumer Affairs; Dr. Raghunath Mashelkar, Former DG, CSIR and Chairman, National Innovation Foundation; Atul Sobti, Director General, SCOPE and Dr. Shobhana Radhakrishna, Eminent Gandhian. The dignitaries reminisced Gandhi's teachings on ethical leadership for organizational integrity and excellence. The symposium was participated in large numbers from across the country.



3.2.2023 Pg no : 20

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3.2.2023 Pg no : 22



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1.1.2023 Pg no : 8

DPE, SCOPE organise workshop

Department of Public Enterprises, in association with SCOPE, organized a Workshop on Procurement by CPSEs from Micro and Small Enterprises at SCOPE Auditorium, New Delhi. Shri R.B. Swain, IAS, Secretary, Ministry of Micro, Small & Medium Enterprises, Shri Animesh Bhatnagar, Economic Adviser, DPE and Shri Atul Sobti, Director General, SCOPE addressed the inaugural session of the workshop, which saw a large participation of senior officials from various CPSEs and industry associations.



financial year. Shri Atul Sobti, welcomed the participants of the workshop and 25 participants from 77 CPSEs & 6. Five industry associations, said that cost effective and quality procurement is an imperative for business, impacting an organisation's commercial prudence and performance. Reiterating the role of CPSEs in the national economy, he emphasised on the need to further increase CPSEs' procurement from MSMEs and encouraged MSMEs to upskill themselves to be globally competitive.



3.2.2023 Pg no : 10

Atul Sobti, Director General, SCOPE

The Budget is likely to have a multiplier effect in both social and economic sectors. "Overall, a positive budget which is likely to give the necessary push to the country for a global role through landmark outlay for infrastructure strengthening, new schemes, incentivising domestic industries, focussing on inclusive development, impetus on skill development, moving towards simplifying regulations for ease of doing business and green initiatives leading to a net zero economy".



Wednesday, February 1, 2023 | 03:51 PM IST English | Hindi

Union Budget 2023: SCOPE hails a 'growth-oriented inclusive budget for all'

SCOPE (Standing Conference of Public Enterprises), apex body of Public Sector Enterprises compliments the Hon'ble Finance Minister in presenting a "growth-oriented inclusive budget for all" with impetus on infrastructure strengthening, green environment and skill development, while maintaining fiscal consolidation. While appreciating the Budget, Atul Sobti, DG, SCOPE said that the Budget is likely to have a multiplier effect in both social and economic sectors. "Overall, a positive budget which is likely to give the necessary push to the country for a global role through landmark outlay for infrastructure strengthening, new schemes, incentivising domestic industries, focussing on inclusive development, impetus on skill development, moving towards simplifying regulations for ease of doing business and green initiatives leading to a net zero economy", he added.



28.12.2022 Pg no : 4

स्कोप की 48वीं वार्षिक आम बैठक

नई दिल्ली। स्कोप ने अपनी 48वीं वार्षिक आम बैठक (एजीएम) की मेजबानी की, जिसे स्कोप की अध्यक्ष सोमा मोंडल ने संबोधित किया। इस मौके पर स्कोप के महानिदेशक अतुल सोबती, उपाध्यक्ष प्रदीप कुमार दास उपस्थित थे। सोम मोंडल ने स्कोप के प्रयासों, नए तरीकों और नीतियों पर प्रकाश डाला। महिलाओं, कोशल प्रशिक्षण जैसे विषयों पर जानकारी प्रदान की। उन्होंने कहा कि स्कोप आजादी का अमृत महोत्सव समारोह के अंतर्गत राष्ट्रव्यापी कार्यक्रमों का आयोजन कर रहा है।



31.1.2023

SCOPE's tribute to Mahatma Gandhi's values of Ethical Leadership on Martyrs' Day



Commemorating the 75th Martyrs' Day, Standing Conference of Public Enterprises (SCOPE) organized a Symposium on 'Ethical Leadership for Organization Integrity: The Gandhian Way'. The occasion was addressed by Shri Rishi Kumar Singh, Secretary, Department of Consumer Affairs, Dr. Raghunath Mashelkar, Former DG, CSIR and Chairman, National Innovation Foundation, Shri Atul Sobti, Director General, SCOPE and Dr. Shobhana Radhakrishna, Eminent Gandhian. The dignitaries reminisced Gandhi's teachings on ethical leadership for organizational integrity and excellence. The symposium was participated in large numbers from across the country.



1.2.2023

SCOPE hails a growth-oriented inclusive budget for all

New Delhi (01.02.2023): SCOPE has complimented Union Finance Minister Nirmala Sitharaman for presenting a "growth-oriented inclusive budget for all" with impetus on infrastructure strengthening, green environment and skill development, while maintaining fiscal consolidation. Atul Sobti, Director General, SCOPE, said that the Budget is likely to have a multiplier effect in both social and economic sectors. "Overall, a positive budget which is likely to give the necessary push to the country for a global role through landmark outlay for infrastructure strengthening, new schemes, incentivising domestic industries, focusing on inclusive development, impetus on skill development, moving towards simplifying regulations for ease of doing business and green initiatives leading to a net zero economy", he said.

Biofuels and their Importance



Ethanol

Ethanol, also called alcohol, ethyl alcohol and grain alcohol, is a clear, colorless liquid.

Ethanol is a natural by product of plant fermentation and also can be produced through the hydration of ethylene.

Ethanol Production

Ethanol production is based mainly on two basic processes regardless of the feedstock, which include the fermentation of a sugar-rich substrate followed by the distillation of the fermented solution. 'bioethanol': ethanol produced from biomass such as sugar containing materials, like sugar cane, sugar beet, sweet sorghum etc.; starch containing materials such as corn, cassava, rotten potatoes, algae etc.; and, cellulosic materials such as bagasse, wood waste, agricultural and forestry residues or other renewable resources like industrial waste.

Use of Ethanol

Personal Care Products

Ethanol is a common ingredient in many cosmetics and beauty products. It acts as an astringent to help clean skin, as a preservative in lotions and to help ensure that lotion ingredients do not separate, and it helps hair spray adhere to hair. Because ethanol is effective in killing microorganisms like bacteria, fungi and viruses, it is a common ingredient in many hand sanitizers.

Household Products

Ethanol mixes easily with water and many organic compounds, and makes an effective solvent for use in paints, lacquers and varnish, as well as personal care and household cleaning products.

Fuel

The most common use of ethanol as a fuel is in mixtures of motor gasoline. Most of the gasoline sold contains some fuel ethanol. Following are the Ethanol blends used as fuels:

Ethanol Blends

Ethanol is blended in Petrol in different ratios ranging from 5% to 100% Ethanol like E5, E10, E15, E20, E85, E100. All fuels are different and vary from Gasoline

properties. Ethanol blends upto E10 can be used in all vehicles but for blends greater than 10% requires modification in vehicle engine.

E10 Fuel- E10, a fuel mixture of 10% anhydrous ethanol and 90% gasoline sometimes called gasohol, can be used in the internal combustion engines of most modern automobiles and light-duty vehicles without need for any modification on the engine or fuel system.

E15 fuel- E15 is a fuel blend containing 15% ethanol and 85% gasoline. Currently BIS specifications for E15 fuel is not available.

E20 Fuel- This prescribes requirements and methods for two octane grades of E20 fuel. E20 is an admixture of anhydrous ethanol (IS 15464) at 20 percent by volume and ethanol free motor gasoline (IS 2796) at 80 percent volume, under BS IV and BS VI categories. This is suitable for use in automobile spark-ignition internal combustion engines in vehicles that comply with BS IV and BS VI emission norms.

E85 Fuel- E85 is an abbreviation typically referring to an ethanol fuel blend of 85% ethanol fuel and 15% gasoline or other hydrocarbon by volume.

ED95 Fuel- Hydrous ethanol is the main component in formulating ED 95 automotive fuel for

modified compression ignition engines. ED95 is an ethanol based fuel for adapted diesel engines. It consists of 95 percent pure ethanol with the addition of ignition improver, lubricant and corrosion protection

E100 Fuel- E100 is otherwise known as hydrous ethanol; the designation is a misnomer because it contains about 4 (weight) percent water. It consists of ethanol that has been distilled to the ethanol-water azeotrope.

Ethanol blended fuel—effect on emission

Using ethanol as a vehicle fuel has measurable GHG (Green house gas) emissions benefits when considering the life cycle steps required for gasoline. Carbon dioxide (CO₂) released when ethanol is used in vehicles is offset by the CO₂ captured when crops used to make the ethanol are grown. As a result, vehicles running on high-level blends of ethanol produce less net CO₂ than conventional vehicles per mile traveled. Ethanol blending leads to lean air/fuel mixture, which can cause increase in NO_x emissions and decrease in CO emissions.

Scenario of Ethanol— India

India imports more than 80 percent of crude oil to meet annual demand, which poses a substantial price and quantity risk to a growing economy (90–95 percent of transportation in India is petro-based oil). These parallel realizations have led the Government of India (GoI) to increase its focus on developing a range of renewable energy sources owing to their eco-friendly nature and indigenous growth prospects.

India initiated its biofuel programme more than a decade ago and launched several policy measures to promote biofuels since then. In 2002, India launched its “Ethanol Blending Programme” and in aiming to achieve the target of 20% Ethanol Blending with gasoline by 2025.

Initiatives for Promotion of Ethanol

Within the span of 17 years, the Government of India has taken a number of initiatives to increase blending of Ethanol.

Government has introduced administrative price mechanism and fixed enumerative price for Ethanol from different feedstock. The other major interventions include allowing alternate feedstock for ethanol production, simplifying the Ethanol procurement procedures of OMCs, amending the provisions of Industries Development & Regulation Act, 1951, reducing GST on ethanol for blending in fuel from 18% to 5% and implementation of 10% blending of Ethanol in all States of India including Union territory except islands (Andaman & Nicobar, Lakshadweep), providing interest subvention scheme for capacity augmentation to Ethanol suppliers.

In 2018, Government of India notified National Biofuels Policy 2018, As per the policy, Government of India has prepared a road map to reduce the import dependency in Oil & Gas sector by adopting a five pronged strategy which includes, Increasing Domestic Production, Adopting biofuels & Renewables, Energy Efficiency Norms, Improvement in Refinery Processes and Demand Substitution. This envisages a strategic role for biofuels in the Indian energy basket.

The Policy aims to increase usage of biofuels in the energy and transportation sectors of the country during the coming decade. The Policy aims to utilize, develop and promote domestic feedstock and its utilization for production of biofuels thereby increasingly substitute fossil fuels while contributing to National Energy Security, Climate Change Mitigation, apart from creating new employment opportunities in a sustainable way. Simultaneously, the policy will also encourage the application of advance technologies for generation of biofuels. Biofuels policy has set indicative target of 20% Ethanol blending by 2025.



Sustainable Development Goal (0): An enabler to be HUMAN



Dr. Ashutosh Karnatak
Mentor (Plus Approach
Foundation)

When you are enthusiastic about what you do, you feel this positive energy. It's very simple.....

Paulo Coelho



Positivity is the driver of all attributes; it enhances the potency if blended with that. Following ten years would be a "**Decade of Positivity**", i.e. everyone is required to open their minds more towards Solutions, Collaborations, Team Development, Progress, Happiness, and Peace.

The nation's development is proportional to the alignment of the people to the goals fixed by their governments, and a Positive mindset, which I have started calling SDG (0), is essential for achieving them. At an extraordinary degree of positivity, people's minds align with the objectives set by the family head, organization head, or nation head. It is the beauty of SDG (0). SDG stands for Sustainable Development Goals

and is a combination of 17 global goals for a sustainable and better world.

They are also known as the Global Goals, adopted by the United Nations in 2015 as a universal call to action to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity. All 17 SDGs are integrated—they recognize that action in one area will affect outcomes in others and that development must balance social, economic and environmental sustainability.

Countries have committed to prioritizing progress for those who are the furthest behind. The SDGs are designed to end Poverty, Hunger, AIDS, Discrimination

against women and girls, Climate Change etc.

The creativity, know-how, technology and financial resources of society are necessary to achieve the SDGs in every context. Understanding SDGs, along with the purpose, are as under :

Goal	Purpose
1	No Poverty
2	Zero Hunger
3	Good Health and Well-being
4	Quality Education
5	Gender Equality
6	Clean Water and Sanitation
7	Affordable and Clean Energy

8	Decent Work and Economic Growth
9	Industry, Innovation, and Infrastructure
10	Reduced Inequality
11	Sustainable Cities and Communities
12	Responsible Consumption and Production
13	Climate Action
14	Life Below Water
15	Life on Land
16	Peace and Justice Strong Institutions
17	Partnerships to Achieve the Goal

Necessity of Positive Thinking Process

It is to be understood that the persons writing SDGs, in the same way, execution is also done by people. Writing the SDG document could be done by a group of people; in contrast, it needed to be implemented by billions of people.

But the issue remains: who will implement the program to achieve this goal? They also announced actions to reduce the earth's temperature by 1.5° C by 2050, but the results are not that encouraging. The reason is that people are not connected with the objective. People talk much about SDG five gender equality and, in reality, how many countries have taken action on this. Still, in India, the birth of the Son is appreciated. Similarly, actions on other SDGs speak of their achievements.

Plus Approach Foundation has been promoting Positive thinking for the last 11 years. When I was co-relating the goals of PIE (Positive,

Inspired & Empowered) Village with SDGs; a thought flashed in the mind that if the Villagers are not ready for the transformation, what the foundation can do, i.e. for any transformative objective the people are required to understand the purpose and align with all their efforts to achieve it. The management literature mentioned that 30% of the transformations are successful whether research on this failure incorporates.

I, having the experience of top leadership position, realized that any transformation would be successful, having following caveats: Need to develop an eco-system before any transformation for a minimum of 6 months.

The concerned people need to understand the objective.

All need to be aligned and put their competence and energy towards that.

After a thoughtful inner discussion thought to term it as SDG (0), which means a positive thinking process and aligning the thinking and all efforts & energy towards the goal.

People have their problems, and they have time to think about it. Still, when it is baptized from childhood, their thought process will become the same as if they are told to respect elders and behave accordingly. In the same way, if this subject is taught from childhood, it gets engraved into the subconscious mind and pops up as a reflection.

Considering the opposite argument that if SDG(0) is not there, what will happen? The answer is simple:

First, people will not think about it as it will be one of the subjects

they may be aware of after getting into the profession; most people are after money.

They also think that there are others to think about it, i.e., lack of ownership.

You may get results, maybe after a long time, as energies are misaligned.

More failures than Success.

International research suggest, "Over 70% of large-scale transformations fail and transformation risk continues to be a top concern for most executives."

I have been invited by the PSU program on gender neutrality on 03.12.22 and found that SDG (0) is the tool that will help people to have neutral opinions about men or women; instead, they will think humanely.

The answer to the question of what your gender is: It will be Human instead of Man & Women or Transgender.

So SDG (0) is the instrument to take the human being to all sorts of neutrality, related to caste, creed, color, or gender.

It has led me to modify my earlier quote ;

Person should not be differentiated based on caste, color, creed & gender, instead to be assessed on positive or negative mindset."

An alignment with the nation's objectives is the outcome of a positive mental model for everyone. A positive mental model is instrumental in developing that alignment and enabling all to work in

the direction of the organization's objective in all segments

Self

Profession

Family

Society

And at the higher level, if all the minds are aligned with the goal of a nation or the world, i.e., if everyone starts thinking about SDG-1: Eradicating poverty, then visualize the level of transformation as everyone would be working on it.

In another case, if everyone thinks about SDG-5 Gender equality, think about the impact on the life of girls :

All will have an education.

They will be married as per their requirement.

No religious faith would be imposed on them.

Equal opportunity to grow in the organisation.

Equal representation in the political system like parliament etc.

No atrocities on them.

They may fly like birdsin the sky.

So, SDG(0) is a strong enabler, for any project, transformation etc. It's the first ingredient to the success.

It helps in :

Developing Growth and Progressive mindset.

Focusing & Aligning energies in the direction of the goal.

Alignment with a commitment to achieving the goal.

It also impacts humanitarian aspects:

Enhances Human Values for the better tomorrow.

Ultimately fosters inner peace and purity of the soul.

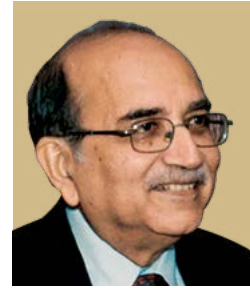
It transforms Man or Woman to Human.

That is why we have to have a new SDG(0), i.e., a new Sustainable Development Goal, which will connect with all the other purposes and act as enablers.

Let us all Adopt & Promote SDG(0): Positive Thinking Process to migrate from Gender to gender neutral i.e. Human.

"It always seems impossible until it is done.": Nelson Mandela

Proactive Industrial Relations – Stakeholder Engagement is the Way Forward



Dr. Rajen Mehrotra*

Introduction

Any organization in India, whether a manufacturing unit or a service sector industry, irrespective of its size, complexity and nature of business like an app-based platform, is governed by the applicable labor laws in force.

Industrial Relations issues are bound to arise in any industry at some stage or other during its lifespan. Needless to say, a proactive approach to Industrial Relations can save the organization from loads of anguish and agony, from suffering serious unrest and disruption in operations. Even so, before adopting any specific approach towards industrial relations, company's HR executives should strive to understand the mind of the Top Management

about the employment model and the composition of the bargainable workforce plus the policy to industrial relations desired. In most cases, these aspects are not clearly spelled out at all, though they have tremendous impact on the industrial relations situation in the company.

In an enterprise, a stakeholder is any individual, a group, or a party which has a stake in the decisions or activities of the company and the outcomes therefrom. Examples of stakeholders include investors, employees, customers, suppliers, communities and governments.

Before initiating stakeholder engagement for promoting proactive industrial relations, the company requires to identify its stakeholders, persons and parties, who may be impacted by or could impact, the company's decisions concerning industrial relations. Given below is a list of likely stakeholders and their particulars.

The stakeholders fall into two categories, the internal and the external. The internal stakeholders are the Management, the employees

and the leaders of the internal trade unions, while all others represent the external stakeholders.

Understanding the Stakeholders

1) Management of the company is the single most important factor, which provides direction to the course of the industrial relations in the organization. Values, beliefs and practices of the Management personnel will determine the company's approach to people management. How open and committed they are to dialoguing with all and sundry, would influence the stakeholders' engagement and association with the organization.

2) Company employees, who come next, are covered under the definition of 'worker' as per The Industrial Disputes Act, 1947 or Sales Promotion Employees (Service Conditions) Act, 1976, as the case may be. They can raise disputes with the Management, either individually or collectively, and can also engage in collective bargaining. The disputes may relate to their rights or their benefits

* Past President of Industrial Relations Institute of India (IRI), Former Senior Employers' Specialist for South Asian Region with International Labour Organization (ILO) and Former Corporate Head of HR with ACC Ltd. and Former Corporate Head of Manufacturing and HR with Novartis India Ltd.

or about both the issues, and they exert a significant influence on the nature of industrial relations. That the company employees are very important actors in industrial relations matters requires no elaboration.

3) Contractors and Service Providers are persons and agencies who supply workforce to an organization in accordance with The Contract Labor (Regulation and Abolition) Act, 1970. Similarly, the other workforce in the state of Maharashtra is covered under the special provisions of The Maharashtra Mathadi Hamal and other Manual Workers (Regulation of Employment and Welfare) Act, 1969, and Maharashtra Private Security Guard Act, 1981. Workforce in other states is covered by the respective state legislations in force.

The agency, designated as the principal employer under the various Acts in respect of different categories of workforce, has certain responsibilities to fulfill. The organization availing of their services will face serious operational problems if the contractors or the service providers do not supply the required workforce in time or are not capable of carrying out the assigned tasks. Also, industrial relations issues are likely to arise, if, at the expiry of the contract, the contractor or the service provider is not able to shift the workforce to another location or to settle the matter with them and ensure their departure from the work place.

4) Workforce engaged through Contractors and Service Providers are employees, not of the company but of the contractor or the service provider

concerned. However, since they work in company premises, they might raise disputes or engage in activities which can affect the industrial relations in the company.

5) Workforce - Gig workers and Platform workers engaged through App Platforms- are presently used by many organizations for the last mile delivery of their products. Working conditions and remuneration model of the last mile gig and platform workers are such that they are often forced to take certain risks, in violation of safety standards and rest norms, because of time pressures. The employer-employee relationship of the gig and platform workers is fuzzy, since they are regarded as self-employed personnel. There are no specific labor laws governing their engagement, other than what has recently been stipulated under The Social Security Code 2020, which, incidentally, is yet to become operational. It is likely that issues relating to remuneration, working conditions, social security benefits and occupational-safety of these workers might at some stage turn into industrial relations problems for the company and the app platforms to deal with.

6) Trade Union Leaders (External and Internal) are the office bearers and key persons running a Trade Union under The Trade Union Act, 1926. Since any seven or more members can form a trade union under the said Act, we have a multitude of trade unions in the country. In several cases, there is more than one trade union in a company, giving rise to inter-union rivalry and affecting industrial relations in a

serious way. Needless to say, that Trade Union Leaders (External and Internal) are very important persons influencing the nature of the industrial relations in a company.

7) Labor Department- Its role is to ensure that organizations operate within the framework of the applicable labor laws, obtain requisite approvals and file the statutory returns in time. They are also required to visit organizations to verify compliance of all the statutory provisions. The Labor Department is also expected to investigate and to act appropriately if any complaint is received from workers or trade unions or an employer relating to violation of any of the existing labor laws. Clearly, Labor Department is one of the main actors in industrial relations issues that an organization has to deal with.

8) Labor Lawyers are routinely engaged by companies as well as trade unions and workers to advise them on industrial relations issues and to litigate on their behalf, as and when required. Litigations, individual or collective, relating to industrial relations do arise regularly in the life of any enterprise. Besides, if conciliation proceedings under The Industrial Disputes Act, 1947 fail and the dispute is referred to a labor court or labor tribunal, then the organization needs to engage the services of a labor lawyer to argue their case unless, of course, they have expertise available in-house. Such being the case, close relationship with top lawyers is not only useful, but even necessary. Obviously, the HR personnel interacting with such lawyers

will have to be themselves very knowledgeable about the laws of the land.

9) Academic Institutes impart knowledge, develop skills, mold-behavior and build capabilities of the youth of the country who plan to enter the labor market. Organizations need to associate themselves with such institutions for procuring workforce for their manpower requirements. That is how young talent, meeting their specific needs, can be inducted and developed into professionals with a mature outlook on industrial relations.

10) Industrial Training Institutes (ITIs), which impart skill training, supply both apprentices and skilled workforce to organizations. Enterprises are well advised to associate with ITIs as they can provide competent work force to the company for its requirements. The association can also prove to be very useful in times of labor unrest or any troubled situation with regard to industrial relations.

11) National Employability Enhancement Mission (NEEM) Trainee Facilitators are a major supplier of temporary workforce post 2013. Organizations need to know the facilitators so that they can easily procure the requisite number of NEEM trainees when required, at regular intervals. These trainees are a transitory workforce and do not, by and large, create any industrial relations problems.

12) Employment Exchange offices operate in every state as per The Employment Exchanges (Compulsory Notification of Vacancies) Act, 1959. The Act

mandates all the employers to notify the vacancies to the Employment Exchanges and to file returns about the Employment situation. There has hardly been any industrial relations issue related to this stakeholder.

13) Canteen Vendor or Food Supplier is an essential agency for any organization, not having its own inhouse personnel to man the company canteen. Canteen is statutorily required to be maintained under The Factories Act, 1948, by all organizations employing two hundred and fifty or more workers. Canteen can be a cause of concern even during normal situations, more so during troubled times. Poor quality of food and insufficient supply of food items invariably give rise to disturbances of one kind or other, vitiating the industrial relations climate in the organization.

14) Creche facility is to be provided by every establishment employing 50 or more people, as per The Maternity Benefit Amendment Act, 2017. Creche, if manned inadequately or maintained improperly, can cause dissatisfaction. The result antgrievance, if not resolved promptly to the satisfaction of the aggrieved party, can give rise to industrial relations problems.

15) Transportation Contractors and their employees like drivers have to ensure safe, smooth and speedy movement of the company personnel from one location to another. Not seldom during the monsoon season, the road conditions worsen leading to delays in reaching destinations and causing inconvenience to employees. These occasions are prone to stir

up emotions and, at times, give rise to industrial relations problems as well.

16) Neighboring Enterprises are organizations in the vicinity of the company. If any of them were to grant substantial increase in wages and benefits to their workforce, it will have its repercussions on the industrial relations climate in the company. It is always wise to have close dealings with the neighboring industries to know what is going on in the region and to take appropriate steps in advance to forestall any adverse reactions.

17) Fire Brigade- Services of Fire Brigade, secured in the shortest time when required, can save an organization from incurring any huge loss. Most organizations have very limited firefighting equipment's and also a limited number of trained staff in fire-fighting. Rapid spread of fire in a factory or office premises, in addition to causing loss of property, plant, machinery and material, can result in injury and death of employees. The impact of any such calamity on the industrial relations situation can be quite disastrous.

18) Local Industries Associations play an important role in bringing things under control and in restoring peace when unrest in a unit perpetrated by some local goons create uneasiness in the entire region. Organizations should be active members and supporters of all local Industries Associations.

19) Local Police Station is vested with the responsibility to maintain law and order in the geographical area within their jurisdiction. Alerting the local police

in advance is always advisable, should an enterprise anticipate any law-and-order problem or if the industrial relations situation in the company threatens to turn violent.

There are occasions when workers and trade unions tend to block movement of goods and people to and from the organization because of some industrial relations problem in the company. The management might require police support. However, in most such cases, the police are reluctant to act, unless the organization has obtained a court order directing the police to quell the agitation. Having a close relationship with the police personnel at the local level and also knowing senior level police officers will always be very helpful. In some cities, there are areas where Sec. 144 is enforced permanently. It will be to our advantage if we can establish important offices like CEO's office, data centers etc., in such locations.

20) Local Media, both print and electronic, are agencies which are actively looking for spicy, exciting news stories. Any labor unrest in a local company is bound to attract journalists who would gather information from various sources and have them published. It is very important for organizations that news about them get reported factually, and also favorably. This will largely depend on maintaining cordial relations with the media personnel.

21) Local Politicians are to be found at various places and at various levels depending upon where the organization is located. There may be a gram panchayat member at village level, a mandal

or block panchayat member at block level, a zilla panchayat member at district level and a corporator at local municipal level. Villages in the vicinity and their governing bodies like sarpanch can extend support to an organization in crisis situations. Corporate Social Responsibility (CSR) activities by organizations do play a key role in building relationship with the local bodies.

At the same time, these regions will also have a Member of the Legislative Assembly (MLA) and a Member of Parliament (MP). Practically all politicians are affiliated to one or the other political party. Politicians strive to protect their vote bank and, as such, they would listen to and act on, requests, complaints or grievances brought to their attention by their constituency members against any particular organization operating in their locality.

The local politicians would also, in some cases, develop interest in recruitment of employees, engagement of contractors, supply of raw material, appointment of transporters, disposal of scrap materials and even in industrial relations matters. Having a good equation with them will always work to our benefit.

Exercise of Stakeholder Engagement

Once we have identified the stakeholders and the activities they perform, we should proceed to understand the specific interests of everyone of the stakeholders through a stakeholder analysis.

Since a stakeholder can be an individual, or a group or a party, it is essential that organizations identify the key individuals

associated with each of the stakeholder entities. Having done so, company personnel are required to interact with them regularly, to appreciate their views, interests and perceptions, and to communicate to them company's own views and concerns. This is part of the proactive industrial relations strategy to build close relationships when things are moving smoothly, so that if a crisis arises, we shall not find ourselves having to deal with strangers.

Stakeholder engagement involves systematic identification, analysis, planning and implementation of initiatives designed to influence stakeholders to develop positive feelings towards the company.

Every organization should work out a plan of engagement for all its stakeholders depending upon their importance, existing level of dependence and the support they have extended to the survival and growth of the company. The nature and extent of engagement will naturally vary from organization to organization.

Conclusion

The stakeholder list that we have put together should help in identifying the specific stakeholders for different organizations. Nurturing positive relationships with them is essential to building proactive Industrial Relations. Relationships are easily built when things are normal. Once a crisis has set in, and everything is in disarray, building relationships will become an impossible task. It is important, therefore, that we act during peace times, and act in a planned manner.

Winged Guests at a Petroleum Refinery



BHV Prasad
Executive Director
Project & Marketing
ONGC MRPL

India is awakening and arising to reclaim the leadership position that it once enjoyed in the global arena in the era gone by.

Its pioneering steps in nurturing the environment and its ambitious targets for reducing pollution and enhancing responsibility and commitment towards the environment are being acknowledged by the world. As India assumes the mantle of G20 leadership, every policy decision and every well-intentioned minute action propels the nation towards this visionary end. The CPSE fraternity have committed themselves towards environmental sustainability by supporting afforestation, wildlife conservation, rejuvenation of lakes, conservation of wetlands, grasslands etc. Such strong support nourishes the rich heritage of biodiversity of our country.

The sole Petroleum refinery of Karnataka, ONGC MRPL, is sandwiched between the Arabian Sea and beautiful Western Ghats

on the west coast of India. The lush and vibrant greens of the refinery is a habitation for a variety of flora and fauna that is typical for this region. But the flourishing greenery, along with many naturally preserved sanctuaries like water bodies and mangroves, invite winged guests from far and wide from not just the corners of this vibrant nation but also from continents beyond. Apart from birds, the forest cover of the refinery boasts hosting of many varieties of butterflies, insects, reptiles and wild animals like Foxes, Langours etc. Very often even Leopards are spotted right inside the refinery premises!



MRPL's terrain comprises thick forest cover, grassland, marshy area, rocky area and water bodies which are ideal for avian visitors. Many of them have made the Refinery their permanent home. More than 150 species of birds can easily be spotted across the year.

The greenery, large water bodies, hills and valleys make them a secure place for these beautiful creations. One has to be a little more observant while on the morning/evening walk or a late-night stroll to spot these beauties. Many birds are easily spotted, whereas, to sight others, one has to be persistent. The birds are more active and vocal early in the morning and in the evening, making them easier to spot. They make various calls to warn of danger, defend their territory, and communicate with others of their species. Birds communicate through calls by way of songs, different sounds, displays emotions and behaviour, varying with season and situation. It is very interesting to observe moulting process, plumage changes of birds over their life or sometimes over different seasons in a year. Birds are always busy with their displays, preying,

* An avid Bird watcher and bird photographer by passion opens to us a unique world of winged creatures that cohabits with a CPSE Petroleum Refinery complex of Coastal Karnataka.



hunting, preening, group activities, mimicry, territorial defence, breeding, nest construction etc. Different birds have different behavioural patterns. One needs to study them carefully, to track them and wait patiently to click their photograph. Ethical way of birding is required to be practiced to avoid disturbance to the birds.

Over a while, many species of endemic and migratory birds have been observed and recorded in and surrounding areas of the Refinery. While Birding can be a recreational activity, it can be a valuable tool for environmental education and awareness of environmental issues. A wide variety of Birds in MRPL Refinery indicates that Industry and nature can co-exist.

Typical MRPLites day usually begins with a musical wake-up call from different birds. Malabar Whistling thrush can be identified with their sweet whistling songs, which are commonly mistaken for human whistling. Their sweet whistling songs kind of fill the morning air! The Koels also can be heard very early in the morning.

As the day progresses, the bird count and activity increases. Coppersmith Barbets can be heard with their distinctive monotonous call tank-tank-tank, similar to the sound of beating metal sheets. White-cheeked barbets are also found in plenty and make their presence felt with their call Kutroo-Kutroo-Kutroo. The different types of bulbuls like Grey-headed, Yellow browed, flame throated, white browed, red vented and red whiskered bulbuls make their appearance. Magnificent Indian Paradise Flycatchers, common lora, Orioles that are frequently found cohabiting the Township with us. Different Fly catchers, Minvets, Sunbirds, Flowerpeckers, Mynas, Magpie Robins, Greater coucals, Babblers are always found plenty. Flowerpeckers and Sunbirds love this place due to the existence of flowering plants and trees. Some of very illusive birds like different Cuckoos, cuckooshrikes, black birds, Red spurfowls, Grey jungle fowls, Orange headed thrush are very often spotted in the mini jungles of the refinery.

State bird of India, Indian peafowls, have made MRPL their home. We can hear their loud, sharp calls. They saunter across the road at times, and if one is lucky, one gets to see the spectacular dance during the rainy season. Karnataka's state bird, Indian Rollers are very often found keenly observing the levels in the refinery tankages!! At night, we can see Spotted owlets and Barn owls roosting on the tree branches.

Drongo, is a bully and can imitate the voice of other birds. The varieties like Racket-tailed, Black, Bronzed Drongos are seen in plenty. The bright Coloured

Indian Golden Orioles and Black-headed orioles, Bee eaters, Leaf Birds are familiar visitors. Varieties of Kingfishers, like Stork-billed, white-breasted, and common kingfishers, like Stork-billed, White-throated and common kingfishers are spotted near drains and water bodies.

The lawn grasses, grassland of the refinery are normally flocked by spotted, white-rumped Munias, varieties of Pipits, Wagtails and Lapwings. Raptors like Brahminy kites, Black kite, Shikra, Crested serpent eagles are found either hovering over the refinery or resting after their busy schedule on the trees of the refinery! Magnificent White Beiled Sea Eagle is one of the regular visitors to our Raw Water reservoirs.

Fruiting trees attract many birds like Vernal hanging parrot, Prakeets, Hornbills. Recently, refinery hosted nearly 50 Malabar pied hornbills for a few days.

There are many water bodies in and around the Refinery. Many types of aquatic birds can be seen in these water bodies. Black headed Ibis, Darters and different types of Storks. Cormorants, Egrets, Herons, Ducks and Waders can be seen waiting endlessly, swimming, dipping and feeding in these areas. Ingeineous weaver bir, Baya weaver, are also comfortably staying in the nests built in the palm trees near the marshy land of the refinery. These beautiful nests built by this master architect birds are hanging retort shaped nests woven from long strips of leaves.

We have many migratory visitors too, every year. It is very exciting to study the migration of the birds. Many birds have the



inherent quality to move from one place to the other to obtain the advantages of favourable condition. This movement occurs during particular period of the year and the birds usually follow the same route. It is believed that there is a sort of “internal biological clock” which regulates the phenomenon of migratory birds. Bird enthusiasts of our refinery keenly await for the migratory season starting from October till February. Rosy Starlings, European rollers which migrate from other continents, have been

observed within the refinery area. Other migratory birds like warblers, buntings, shrikes, few types of raptors are seen in and around the refinery.

These countless winged Jewels make MRPL a Bird Sanctuary in its own right. While on one side, it delivers the purest fuels to meet the energy demand and environmental commitments of our rapidly progressing nation, it also prides itself in hosting, year after year, these beautiful creations of God that inspire us to go miles and fly higher and higher.

Health Miracles of drinking healthy water (Part-1)



Dr. H. K. Chopra*

“But whosoever drinketh of the water that I shall give him shall never thirst, but the water which I shall give him shall be in him a well of water springing up into everlasting life”

“Let it be health and joy to us. Let nothing vex or injure us. Let water be the universal medicine. Let water be the universal balm for us”.

“Water is life, life is water”. “85% of you and me comprise of water”

“Adequate hydration and health go together”

“Water helps communication at cellular and ultracellular level and enhance integration of microcosm and macrocosm”

“Water help in integration of all components of health”

“Water is cure for many diseases”

“Water hydrate 60 trillion cells of our body and enhance 6 trillion chemicals reaction in harmony”

“Water is heart protective, lung protective, stomach protective, liver protective, kidney protective, joint protective, brain protective, bone protective, skin protective, vessel protective, cholesterol protective, diabetes protective, gall bladder protective, nerve protective, eye protective, cancer protective, infection protective, immuno protective etc.”

“Dehydration is the cause of premature clot formation and cell entropy”

“Take 8-10 glasses of water a day and keep all disease away”

Water is very essential component of our body, without water one cannot survive. “Life is water and water is life”. I firmly believe that elixir of life for a better wellbeing is water. 85% of our body weight is water. Adequate hydration is a necessary to be healthy. Even slightest dehydration may produce innumerable diseases such as arthritis, osteoporosis, coronary artery disease, stroke, hypertension, obesity, diabetes, constipation, rheumatism, sinusitis, cancer, infections, hyperacidity, urinary



problem and even depression etc. The solution to all this problems is adequate hydration. Our scripture including Atharvaveda have all the references to suggest that many diseases can be cured through adequate amount of water. Atharvaveda also emphasised “Let it be health and joy to us. Let nothing vex or injure us. Let water be the universal medicine. Let water be the universal balm for us”. Atharvaveda also expressed “water is beneficial, essence of life or nectar of life, it contains all medicinal properties and has healing properties”.

Historical aspect

Fresh water is colorless, odorless,

* Sr. Consultant Cardiologist Medanta Moolchand Heart Institute, Chairman CME, Moolchand Medcity, New Delhi, Chairman, WWF, WHA, Country Head, AHA, Former National President, CSI & IAE, Former National Editor in Chief, IHJ, JIAE, Editor in Chief, Top 12 Textbooks of Cardiology, National Chief Advisor Health Committee SCOPE, National Awardee, Science & Technological Communications, MST, DST, Govt. of India.

tasteless, and calorie free. Water is vital to all lives on earth. No human, animal, or plant can live without it. From elephant to microbe, water is essential; and there is no substitute for water till date. Each of the six billion people on earth needs to consume water. The daily requirement of water for an individual is about two to two and a half liters of water every day to keep healthy. When there is no water there is no life.

Fortunately, there is plenty of water. When photographed from outer space, our beautiful blue planet looks as though it should be called Water, not Earth. Indeed, if the world's water evenly covered the surface of the planet, it would form a global ocean 1.5 miles [2.5 km] deep. All of the earth's land surfaces could fit into the Pacific Ocean, with room to spare.

According to Genesis 1:1, "In the beginning, God created the heavens and the earth. Now the earth proved to be formless and waste and there was darkness upon the surface of the watery deep; and God's active force was moving to and fro over the surface of the waters."

It is difficult to argue that water is any less than a miracle, the product of a benevolent Mastermind. According to the Genesis account, water was already present before the opening and closing of the six 'creative days'. It was on the second day of 'creation', according to Genesis 1:6 that 'an expanse came to be between the waters above the expanse and those below'. Thus the water cycle: it is worth noting that all the water that is here on earth has been here for aeons of time, evaporating from the great oceans, falling as rain

and snow over mountains and plains, flowing inexorably back to the sea from which it came, the 'watery deep.'

Although water seems simple - it is just 2 atoms of hydrogen and one atom of oxygen - it is an extremely complex substance. Dr. John Emsley of Imperial College (London, England) states that it is "one of the most investigated of all chemicals, but it is still the least understood." Dr. Emsley explains, for example, that "H₂O should be a gas ... but it is a liquid."

Man's survival depends on water. All great civilizations have been founded at great sources of water. No other issue has caused more military and legal battles than water rights.

To begin with, although 70 percent of the earth's surface is covered with water, not all of it is drinkable. For example, the seas make up about 97 percent of this water. This leaves 3 percent classified as fresh. More than three fourths of this water, however, is locked solid in earth's glaciers and polar ice caps. Another 14 percent is underground water in aquifers too deep to tap. The remaining water, estimated to be a minute 0.027 percent, flows through freshwater rivers, lakes, and streams, and in aquifers that can be tapped. The surface freshwater is recharged with rain and other precipitation, but because of the great depth of some aquifers, they cannot be recharged. Unlike giant turbines that can create electricity for home and industrial use, no new water can be manufactured. So when the water tap is turned on in the home for that special pot of tea or coffee,

or for the invigorating hot tub or shower, and the great valves are opened in industrial establishments or to recharge swimming pools, the water must come from nearby rivers, lakes, or wells tapping the aquifers. Although the annual rainfall for the earth is plentiful, it does not fall on all parts of the earth in equal proportions. In some parts of the earth, rainfall may be more than abundant, whereas in others it may not rain for years. In the places where rain is scarce, great irrigation systems are necessary for farming, and these waters are pumped from aquifers where recharge is either nonexistent or insufficient. This has resulted in wells running dry.

Water Behaviour and Water Quality

What makes water such a good solvent, even the "universal" solvent? For one thing, water molecules adhere to one another and other substances in a marvelous way. One drop of water contains 100 billion atoms; no wonder it has penetrating power! Water can climb up surfaces against the law of gravity. Water has an amazing ability to absorb and retain heat. Water can exist as a solid, a liquid, and a gas, all at normal temperatures. (The unique properties of water in solid form make life possible: if, like most substances, water became more dense when frozen, the oceans and lakes would long ago have filled up and life ceased.) Water is essential for life, as a solvent, because it carries nutrients through the skin, the lymph and the blood to all tissues of the human body. Water can also be deadly, as the carrier of toxic chemicals, parasites, and

bacteria. Having trouble concentrating? Maybe you need to drink more water, suggests Asiaweek Magazine. The magazine reports that teachers and parents of some Hong Kong school children were recently advised that drinking plenty of water helps students combat listlessness. Children should drink 8 to 15 glasses of water a day, parents were told. Citing the book *The Learning Brain*, the report points to studies indicating that dehydration can lead to poor learning. Drinking pure, clean water is better than drinking soft drinks, coffee, tea, or even juices, which may actually stimulate the body to expel fluids, states Asiaweek.

Where is the pure water?

An estimated 3 billion people do not have access to proper sanitation and more than 5,000 children die daily as a result of diseases related to dirty water, according to a U.N. report published Monday, March 13, 2000. "There are more people without proper sanitation this year than last year and there will be more again next year," said a water and

sanitation expert at the World Health Organization. Tap water is now treated purposely with several well-known chemicals (Chlorine, Fluorine, lime, copper sulfate, aluminum sulfate, sulfur dioxide), and infected by accident with hundreds more. Remember that the by-products of civilization are everywhere. Road salt, agricultural chemicals, fertilizers, pesticides, rubber, motor oil, paint thinner, it's just a matter of time before these pollutants make their way into the water sources. Examples: Atrazine, a corn pesticide there were not so many bacteria that eat at least some of this stuff, we would be in much worse trouble. Each human being needs between 2 and 3 quarts of water each day, from all sources (a tomato, for example is about 90% water). That means about 16,000 gallons of water in a lifetime. Some recent developments in water transport and treatment have presented more problems than they have solved.

Take water softening: Using sodium to displace calcium and magnesium is good for the pipes, but not good for you. Sodium causes

fluid retention, gas, heartburn, and cardiovascular problems. Or copper tubing: Lead pipes were a disaster. The switch to iron pipes saved lives, but caused a health threat to children with too much rust. Now copper, especially with the increase in acid rain, is increasingly a threat. Electrolysis in copper tubing can put excess copper into solution, and this is implicated in childhood learning disorders, memory loss, senility, and birth defects. Are you thinking copper pipes are not such a big problem?

What type of water do you drink?

One of the surprising health concerns we have is the type of water that we drink. Yet it is often overlooked by most health practitioners. It is hardly ever taken into consideration. But our bodies are approximately 70% water and the quality of this water has a major impact on the quality of our lives.

Water has so many functions in the body that it is impossible to name them all. It is involved in nearly every process in the body. It is so important to drink water, and the best quality of water at that, to allow the body to function properly. We actually must drink our 8 glasses of water each day for our bodies to function properly. Actually, studies have shown that if you take your body weight and divide it by 2, and drink that many ounces per day, that is the right amount of water to drink.

The two main concerns that we have about water are, what type of water is it, and what is in that water? I will address each of these two topics separately.



When I say what type of water is it, I mean what kind of molecular configuration is it in? I am not talking about the hydrogen and the oxygen that make up that molecule, that will always be H₂O. What I am talking about is, what is the relationship that each water molecule has with the molecules surrounding it? This has to do with the energy of the water.

H₂O means that there are 2 hydrogen atoms and 1 oxygen atom in each molecule of water.

Now because the Hydrogen atoms are positively charged and the oxygen atom is negatively charged, the molecules of water will form loose bonds with the molecules that are adjacent to them, that are also charged electrically. The positively charged hydrogen atom in one molecule will be attracted to the negatively charged oxygen atom in another and will repel from the other hydrogen atoms. So the water molecules form loose bonds as they fit themselves into each other, and are not just jumbled together. These loose bonds are very easily broken and they do not alter the chemical composition of the water itself, but can alter the way the water is used in the body.

In pure water, such as distilled water, or clean rainwater or snow, which incidentally is also distilled water, the water molecules configure themselves into 6-sided forms. This is called the hexagonal form and it is the natural or biological form. All snowflakes have 6 sides. The natural energy of the water/ice is balanced. According to biologists, the benefits of this form of water in the body are these:

It is the best for the hydration of the cells.

It allows more oxygen and nutrients to be transported in the blood.

It is the best for the chemical and electrical communication between cells.

It helps to leach out unwanted non-organic minerals out of your body, while preserving the minerals that are needed for life.

Other forms of water configure themselves into 5 sided configurations, called pentagonal forms. These forms are unnatural and can be the cause of some diseases. Biologists who study these things have found that a high concentrations of 5-sided water clusters are found in those people whose immune systems are malfunctioning, such as those with autoimmune disorders. And another thing that is very amazing, is the fact that the reverse osmosis water purification systems produce more of these 5-sided clusters than the 6-sided biological water that we need for life.

Reverse osmosis can produce one of the cleanest types of water, but the water that is produced is not natural because of the 5-sided form that it is in.

Osmosis is a natural process, but reverse osmosis is exactly the opposite process. It is an unnatural form of water. So you can see that it is possible that water can be pure, that is, free from contaminants, and still not be the best for your body. So you may be suffering in your body, because of what you put into your body, even when you are thinking that you are doing what is best for your body. At the very least you are causing your body to work harder, and are using considerably more energy than is necessary to remain healthy. You can argue all

that you want that the best purified water is the reverse osmosis type, but the biological research shows otherwise.

The energy fields of the different types of water were not known until recently, and when men were forming the basis for their opinions on which type of water was best, they only considered purity and not molecular configurations. It is now known that they were wrong. Please don't fault those who are sticking to their convictions, who haven't heard the new findings.

A third type of molecular arrangement is also known. This type has a completely random structure. This is the type that is found in tap water. This includes both well water, and city water, which is the absolute worst.

The random type is the worst type of water to drink in respect to the 4 areas that I mentioned before, cellular hydration, nutrient and oxygen carrying capacity, cellular communication, and cellular detoxification. It is also the worst type to drink because of the unusable forms of minerals that are dissolved into it and also because it is usually acidic in pH.

Not so long ago, when the earth was clean, the water that we drank was distilled by the sun which evaporated the water, and then it condensed in the atmosphere and then fell to the earth. Now, the atmosphere is polluted and so is the soil that it falls on. This polluted kind of water is the worst because it is in the wrong form, and because of the contaminants that are in it.

Here is a very basic explanation and illustration of why this happens.

You have heard that everything that goes up, must come down. Well, another natural law concerning matter says this: Matter cannot be created, and it cannot be destroyed. What it can do is to change form. If you take a gallon of gasoline and pour it into a shallow pan and leave it out in the sun, it will evaporate. It will change from a liquid state into a gaseous state. It still weighs the same, nothing disappeared. The same gallon is now dispersed and suspended in the air. If you had a dome over it and caught those vapors, you could condense it back into its liquid form. If you breathed all of those vapors into your body, you would have a gallon of gasoline in your body. If you burned that gasoline, you are not destroying the elements that make it up, you are only changing the form. The carbon dioxide, carbon monoxide, water, sulfur dioxide, and other chemicals that are produced by burning have the same weight that the gasoline had. You only changed its form.

Now, these gasses that are produced by burning rise into the atmosphere and fall back to the earth with the rain. You've heard of acid rain. This is it. Now when you hear of how many millions of barrels of oil are being consumed each day, where is it all going? It is going into the atmosphere and then falling back to the earth as acid rain. Whatever is used each day, the same weight falls to the earth each day, except for some gasses that stay in the atmosphere. This acidic rainwater percolates through the soil into our groundwater and pollutes them. The acid also dissolves minerals into the water that are in forms that our bodies are not able to use.

The rainwater from old did not dissolve the minerals into the forms of minerals that are in the well water of today. Yes, you need minerals in your body, but unless they are in the proper forms, they will do more harm than good. The rainwater that we have today is not the same as the rainwater that we had 200 years ago, and neither is the well water.

My well water was tested and was found to have abnormally high amounts of inorganic calcium, copper, and iron. These minerals were causing health problems in our family. Our health immediately improved when we stopped drinking the well water.

So it is plain to see that distilled water is the best water to use because it is the best type. However, according to some researchers, this "best type" can be potentially harmful if you do not ingest minerals of the proper kind, with your water. I will explain this more completely in a minute.

But now I would like to briefly discuss the physical contaminants that may be in our water. There are 5 main contaminants in our water supplies. They are:

- Microorganisms
- Heavy metals
- Organic Chemicals
- Inorganic Chemicals
- Radioactive minerals

Of this group of 5 contaminants, the most hazardous is the microorganisms. These include bacteria, cysts (cryptosporidium, giardia), viruses, and other microorganisms. Having these in your drinking water can prove deadly to your family. All of these substances will have a negative

effect on your body. How it will affect the individual person will vary, depending on a multitude of factors.

Most "city" water comes from reservoirs and rivers, and there is a high probability that rainwater has washed pollutants into that water from the environment. In addition to this, chemicals such as chlorine, alum, fluorine, lime, phosphates, and sodium aluminates are added to purify the water and to kill microorganisms. These are in addition to high amounts of asbestos, arsenic, cadmium, and cyanides. All of these substances are either carcinogenic, or combine with other substances to become carcinogenic.

But before you condemn those who add such substances to our water to "purify" it, consider that the microorganisms that the chlorine kills are much more hazardous than the chlorine. But when you drink chlorinated water it will kill beneficial organisms in your body such as the beneficial bacteria in your intestines and also the cells themselves that make up your body. That's the purpose of chlorine, to kill microorganisms. For this reason, you shouldn't even water your garden with it because it will kill the microbes in the soil that are so important for your plant's health. It is very important to understand this concept fully as the balance of all living things depends on beneficial microorganisms!

To be continued..... Part-2 in the Upcoming Issue.

* Read the concluding part of this article, 'Health Miracles of Drinking Healthy Water' in the upcoming issue of KALEIDOSCOPE Magazine.

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Conference Facilities at SCOPE Convention Centre Lodhi Road, New Delhi

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Tagore Chamber



The chamber has capacity of 92 persons (86 Nos. Chairs + 6 Nos. Chairs on Dais) equipped with 2 Nos. projector screens and mikes on dais, tables & podium.

Auditorium



The Auditorium has a capacity of 310 persons (300 Chairs + 10 Nos. Chairs at stage) capacity equipped with projector, screen and mikes on dais and podium on stage.

Bhabha Chamber (Board Room)



The chamber has the capacity of 44 persons (24 Nos. Chairs on round table and 20 Nos. Chairs on sides) equipped with 4K advanced VC system for 12 person, projector screen and mikes on dais, tables & podium.

Mirza Ghalib Chamber



The chamber having capacity of 108 persons (102 Nos. Chairs + 6 Nos. Chairs on Dais) equipped with 2 Nos.-projector & screen and mikes on table, dais and podium.

Fazal Chamber



The chamber has a capacity of 25 persons (15 Nos. Chairs on round table and 10 Nos. Chairs on sides) capacity with board room type seating arrangement equipped with screen and mikes.

Business Centre



The Business Centre has a capacity of 7 persons equipped with multi point Video Conferencing System (1+3), that can connect with three locations at a time.

Annexe II



The Annexe-II has the capacity of 15 Persons and is equipped with projector screen.

Banquet Hall



The banquet hall has a capacity of 500 Persons for the purpose of lunch & dinner with variety of cuisines. Seating can be arranged for 40 persons.

Tansen Chamber at UB



The Tansen Chamber has the capacity of 30 persons and also a stage & podium equipped with projector screen.

Annexe I



The Annexe-I has a capacity of 20 Persons and is equipped with projector screen.

Amir Khusro Chamber at UB



The Amir Khusro Chamber has capacity of 35 persons with facility of stage & podium equipped with projector screen.

For Booking & Tariff details please contact:

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Conference Facilities at SCOPE Minar Convention Centre, Laxmi Nagar, New Delhi

SCOPE Minar, Architecturally conceived in the form of two high rise curvilinear tower with blocks sitting on a four storey circular Podium Block, is strategically located in Laxmi Nagar District Centre, Delhi -110092 and housing around 40 PSEs of repute. It is one of the iconic buildings of East Delhi. It has a huge foyer which gives an ambience look inside the building. There is greenery all around the SCOPE Minar building with large size planters. The building also has state-of-the-art Convention Centre comprising of five conference halls:

Board Room



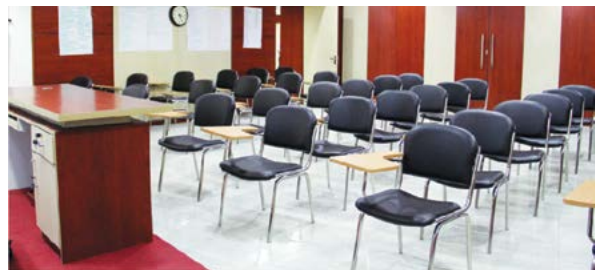
Board room having "U" shaped table, has a seating capacity of 50 delegates with modern facilities - projector, screen, sound system, table mic etc.

Auditorium



The auditorium has a capacity of 350 delegates. Various seminars, training programmes, presentations, get together etc. can be conducted in auditorium which is equipped with projector screen. It provides ambient and peaceful environment for the programmes.

SCOPE Academy of Public Sector Enterprises



SCOPE Academy of Public Sector Enterprises (APSE) conducts executive development programmes for PSEs' executives. It has three training halls equipped with projector, screen, sound system etc. one with capacity of 40 persons and two halls with capacity of 30 persons each for training purpose.

VIP Lounge



VIP Lounge has seating capacity of 30 delegates. CMDs, Directors, and other high level officials can use it as waiting lounge also,

Meeting Hall



Meeting hall having "U" shaped table, has a seating capacity of 62 delegates. Most widely used for small size meetings and training programmes, group power point presentations etc. and is equipped with projector and screen.

For Booking & Tariff details for Convention Center, SCOPE Minar, Laxmi Nagar please contact

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There is a wide space for vehicle parking that cater to a capacity of 550 cars, including the newly built good quality Banquet Hall wherein 300 delegates can comfortably dine at a time, making it special to deliver an all-round conducive meeting environment.



Hon'ble President dedicates transmission system built by POWERGRID for 8.9 GW of solar power in Rajasthan



Hon'ble President of India, Smt. Droupadi Murmu virtually dedicating transmission system built in Bhadla, Fatehgarh and Bikaner regions of Rajasthan.

Hon'ble President of India, Smt. Droupadi Murmu virtually dedicated transmission system built for evacuation of 8.9 GW of solar power in Bhadla, Fatehgarh and Bikaner regions of Rajasthan at a function held at Raj Bhavan in Jaipur. The transmission system has been built by Power Grid Corporation of India Limited (POWERGRID), Governor of Rajasthan, Shri Kallraj Mishra, Chief Minister of Rajasthan, Shri Ashok Gehlot, senior officials of Government of Rajasthan, Central Government and POWERGRID were also present during the occasion.

Energy transition in the country is happening at an accelerated pace through large scale grid

integration of Renewable Energy. By the year 2030, more than 500 GW of non-fossil fuel-based generation capacity is envisaged. The Government of India has planned various inter-state transmission schemes for renewable energy integration.

Under Phase-I, 8.9 GW of solar power was envisaged from Rajasthan and POWERGRID has developed inter-state transmission system for evacuation of power from various complexes such as Bhadla- 3.55 GW, Fatehgarh-3.5 GW and Bikaner-1.85 GW. 3 sub-stations at Fatehgarh, Bhadla & Khetri, 1872 circuit kms of EHV transmission lines and 12,500 MVA transformation capacity have been added to the Inter State Transmission System.

The solar complexes in the region have now been connected to the National Grid. The total cost of the project is Rs. 4,928 crore. After completion of the project, renewable energy from solar complexes of Rajasthan is easily accessible to millions of consumers across the country.

The total transmission assets of POWERGRID and its subsidiaries as on December 31, 2022 include 1,73,791 circuit km of transmission lines, 270 substations and transformation capacity of 4,93,042 MVA. With the use of state-of-the-art maintenance techniques, automation and digitisation, POWERGRID has maintained transmission system availability more than 99%.

EIL provided services as Independent Engineer for Manohar International Airport at Mopa, Goa



Hon'ble Prime Minister of India, Shri Narendra Modi during the inauguration of Manohar International Airport at Mopa, Goa

Hon'ble Prime Minister of India, Shri Narendra Modi, inaugurated the Manohar International Airport at Mopa, Goa. Engineers India Limited (EIL) has provided Independent Engineer Services to the Government of Goa for this Greenfield airport.

Developed at a cost of 2,870 crores, this state-of-the-art Airport has adopted some of the best-in-class technologies like 3-D monolithic precast buildings, Robomatic hollow precast walls, 5G compatible IT Infrastructure etc. The Master Plan of the Airport was also reviewed and approved by Engineers India Limited through

a separate contract earlier in 2017. The currently developed phase-1 of the project will cater to 4.4 million passengers per annum (MPPA) which is scalable to cater to 33.0 MPPA in the final phases.

EIL has been playing an important role in providing expertise services for these new state-of-the-art airports. In the past EIL provided its specialized services in the development of Delhi (T3) airport, Mumbai International airport. Present airport assignments include Leh airport, Jewar Airport at Noida, and Nicobar Airport.

Commenting on this achievement, Smt. Vartika Shukla, CMD,

EIL said "Considering the importance of infrastructure development in the growth of the Nation, EIL's focus is not only limited to providing services in the development of infrastructure but also providing value added services with respect to development of best in class energy efficient and sustainable infrastructure". She added "EIL has been associated with the development of world class technical and strategic infrastructure which includes Data Centres, internationally acclaimed institutions like IITs, IIMs and key infrastructure projects for various government agencies including RBI, which requires specialized expertise".

SAIL records best ever monthly production in January 2023

Crude Steel production shows an impressive growth over previous best

Steel Authority of India Limited (SAIL) has recorded the best ever monthly production in January 2023. Crude Steel production of 1.72 Million Tonne (MT) during January 2023 is the best ever monthly performance registering an impressive growth over the

previous best achieved in March 2022. SAIL also achieved the best ever monthly production of hot metal and saleable steel at 1.8 MT and 1.61 MT during this month, registering growth over the previous best recorded in March 2022.



BOB Converter

HCL signs tripartite 8th Wage Settlement



Shri Arun Kumar Shukla, CMD, HCL, along with Smt. Roopa Bharat, Deputy Chief Labour Commissioner (Central), Kolkata, at the signing of the tripartite 8th Wage Settlement.

Hindustan Copper Limited has signed the tripartite 8th Wage Settlement before Smt. Roopa Bharat, Deputy Chief Labour Commissioner (Central), Kolkata, for revision of Wages and Allowances of Workmen.

Shri Arun Kumar Shukla, CMD, Sanjay Panjiyar, Director (Operations), Shri Sanjiv Kumar



Shri Arun Kumar Shukla, CMD, Sanjay Panjiyar, Director (Operations), Shri Sanjiv Kumar Singh, Director (Mining), Shri Ghanshyam Sharma, Director (Finance) and Senior Officials of Hindustan Copper Limited along with the representatives of Recognised Trade Unions from KCC Unit in Rajasthan (AITUC), MCP Unit in Madhya Pradesh (BMS), ICC Unit in Jharkhand (AITUC), TCP Unit in Maharashtra (INTUC) and Corporate Office, Kolkata (INTTUC), at the signing of the 8th wage settlement.

Singh, Director (Mining), Shri Ghanshyam Sharma, Director (Finance) and Senior Officials of Hindustan Copper Limited along with the Representatives of Recognised Trade Unions from KCC Unit in Rajasthan (AITUC), MCP Unit in Madhya

Pradesh (BMS), ICC Unit in Jharkhand (AITUC), TCP Unit in Maharashtra (INTUC) and Corporate Office, Kolkata (INTTUC) signed the Wage Settlement.

The Settlement is for a period of 10 years w.e.f. 01/11/2017 to 31/10/2027.

WAPCOS pays dividend for the year 2021-22

Shri Gajendra Singh Shekhawat, Minister for Jal Shakti, Government of India, in the presence of Shri Pankaj Kumar, Secretary; Smt. Vini Mahajan, Secretary (DWS); Smt. Debashree Mukherjee, Special Secretary; Shri Vikas Sheel, Additional Secretary (DWS); Shri Subodh Yadav, Joint Secretary; Shri Anand Mohan, Joint Secretary, Ministry of Jal Shakti, Government of India, receiving Dividend Cheque for the year 2021-22, from Shri R.K. Agrawal, CMD, WAPCOS & NPCC. Shri Pankaj Kapoor, Director (Finance); Shri Anupam



Officials from Ministry of Jal Shakti, Gol receiving the dividend cheque from Shri R.K. Agrawal, CMD, WAPCOS & NPCC.

Mishra, Director (Comml. & HRD) and other Senior Officers from WAPCOS were also present. WAPCOS paid Rs. 31 crore as Dividend to Government of India. It is 24% higher than the previous year. The Consolidated

Income of the Company has increased by 11.08% and profitability by 10.55%, during the Financial Year 2021-22.

On the occasion, Vision @2047 of WAPCOS was also released by the Minister.

HPCL forays into Petrochemicals Marketing with launch of flagship Brand- “HP Durapol”

Hindustan Petroleum Corporation Ltd. (HPCL), forayed into Petrochemical Business through Polymer Marketing with the launch of Polymer Brand, “HP Durapol”.

Shri Pankaj Jain, Secretary-P&NG, MoP&NG along with Shri Pushp Kumar Joshi, CMD HPCL in the presence of Senior Officials from Ministry of Petroleum & Natural Gas and HPCL, launched HPCL’s first Polymer Brand. They inaugurated the Brand Logo, Product Brochure and Package for Polymer products.

HPCL Polymer Brand, “HP DURAPOL”, will cover various grades of HDPE (High Density Polyethylene), LLDPE (Linear Low-Density Polyethylene) & PP (Poly Propylene). HPCL has planned to start the Pre-Marketing of Polymers. This Pre-marketing will be the precursor to marketing of HPCL Rajasthan Refinery Limited (HRRL) products. HRRL is a 9.0 MMTPA and 2.4 MMTPA Petrochemicals



Shri Pankaj Jain, Secretary- P&NG, MoP&NG, along with Shri Pushp Kumar Joshi, CMD, HPCL and other Senior officials from Ministry of Petroleum & Natural Gas and HPCL during the launch.

integrated Complex. This pre-marketing activity will take HPCL a Leap Beyond in the World of Petrochemicals.

During his address while inaugurating HP Durapol, Shri Pankaj Jain, Secretary -P&NG, MoP&NG appreciated HPCL’s effort to look beyond energy and evolve in the fast-changing landscape. He mentioned that the new line of business will be a differentiator for HPCL in the future against its competitors and said that this step re-enforces and re-emphasizes HPCL as a leading Marketing

Company. He also mentioned that pre-marketing of Polymers before the commissioning of HRRL, will provide a unique opportunity to HPCL to learn the nuances of this new line of business and establish itself as leading Polymer brand in the market.

HPCL Polymer products will cater to several end use segments e.g. Food, Agriculture, Textile, Construction, Medical etc. By entering into Petrochemicals business HPCL will reinforce Govt. of India’s mission of Aatmanirbhar Bharat.

BHEL Day 2023 celebrated with fervour



Dr, Nalin Shinghal, CMD, BHEL, addressing the employees during BHEL day 2023 in the presence of Funtional Directors and CVO of BHEL.

BHEL Day 2023 was celebrated at the company’s Corporate office in New Delhi where Dr. Nalin Shinghal, CMD, BHEL hoisted the BHEL Flag and addressed a cross-section of employees, in the presence of the Functional Directors on the Board of BHEL and CVO, BHEL. Employees of BHEL’s NCR-based divisions participated in the function with great enthusiasm.

Former CJI Justice delivers 21st Edition of NALCO Lecture Series

National Aluminium Company Limited (NALCO) celebrated with pride its journey of excellence with the 43rd Foundation Day celebrations, held across all its Operating Units, Regional offices and Corporate Headquarters. As part of the celebrations, the 21st Edition of NALCO Lecture series was also organized, at its Corporate Office Auditorium. Justice Dipak Misra, Former Chief Justice of India, graced the occasion as the Chief Guest and delivered the Keynote address in this edition of the lecture series. Reflecting his thoughts, Justice Misra spoke on the theme: The Power of Leadership-Leading with Vision, Courage and Skill for Sound Corporate Governance. Being appreciative of NALCO's performance, Justice Misra congratulated team NALCO and called upon them to continue to keep the growth momentum and achieve new milestones in the journey of corporate excellence.



Shri Sridhar Patra, CMD, NALCO along with Justice Dipak Misra, Former Chief Justice of India during 43rd Foundation Day of NALCO.

Shri Sridhar Patra, CMD, NALCO, in his opening remarks congratulated NALCO Collective on the momentous occasion of the 43rd Foundation Day and extended a warm welcome to the former Chief Justice of India, Justice Dipak Misra to the 21st Edition of NALCO Lecture Series. Directors of

NALCO, CVO, former CMDs and ex-employees, senior officials of State Government and other PSUs, were notably present on the occasion as the distinguished guests. The event was organized in a hybrid mode, and the employees across all units also joined this annual Lecture Series through the virtual mode.

PFC ranked amongst the Top 10 profit making CPSEs by DPE

Power Finance Corporation Ltd. (PFC) another feather to its cap by featuring in the DPE's list of Top 10 Profit-Making CPSEs.

As per the "Public Enterprises Survey 2021-22" published by the Department of Public Enterprises, Ministry of Finance, Govt. of India, PFC has been ranked amongst the "Top 10 Profit-Making CPSEs" in FY 2021-22.

PFC is committed to supporting Govt. of India's cause of Nation building and bolstering the Indian Economy. As a responsible Corporate Entity, the cause of Nation building has always been high on PFC's list of priorities.

2.2.2 Top 10 profit-making CPSEs
Among the profit-making CPSEs, the top five CPSEs accounted for 41.57% of aggregate Net Profit, and the top 10 accounted for 60.91% of the aggregate Net Profit in FY 2021-22 (Table 2.2). Oil & Natural Gas Corporation Ltd. contributed highest net profit amongst these top 10 CPSEs in FY 2021-22.

Table 2.2: Top 10 profit-making CPSEs in FY 2021-22

S.No.	CPSE	Net Profit (₹ crore)	Share (%)
1	Oil & Natural Gas Corporation Ltd.	40,305.74	15.27%
2	Indian Oil Corporation Ltd.	24,184.10	9.16%
3	Power Grid Corporation Of India Ltd.	17,093.76	6.48%
4	NTPC Ltd.	16,111.42	6.11%
5	Steel Authority Of India Ltd.	12,015.04	4.55%
6	Coal India Ltd.	11,201.57	4.24%
7	GAEL (INDIA) Ltd.	10,363.97	3.93%
8	BEC Ltd.	10,045.92	3.81%
9	Power Finance Corporation Ltd.	10,021.80	3.80%
10	NMDC Ltd.	9,398.48	3.56%
	Total (1-10)	1,66,742	60.91%
	Other CPSEs	1,03,153	39.09%
	Profit of profit-making CPSEs	2,63,895	100.00%

NCL achieves the mega feat of 100 Million Tonnes of Coal Dispatch in the current Fiscal

Also accomplishes Record One day Overburden Removal more than 90 Million Tonnes Supplied to Power Houses.

Northern Coalfields Limited has achieved a mega feat of 100 Million Tonne coal dispatch on the penultimate day of 2022.

This feat assumes significance considering the dependency of the Indian economy on coal and the steep rise in coal demand amid ongoing winter and global economic disruption. This spectacular achievement of 100.05 Million Tonnes of Coal Dispatch comes with 9% y-o-y growth. Also, The company is ensuring sufficient coal supply to the powerhouses and has supplied more than 90 Million Tonnes of coal to the GENCOS till date i.e. more than 90% of the total coal dispatched to coal consumers.

On this stellar performance, CMD, NCL reiterated the company's commitment towards strong augmentation in production, offtake,

and Overburden Removal in the period ahead. He also said that the achievement of this mega feat is the fruit of fatigue of company miners.

In the Current Fiscal, NCL has produced 96.89 Million Tonnes of coal with a splendid growth of 12.66% till date. NCL operates from all opencast mines hence it becomes important to remove the material above coal layers (Overburden) for coal production in the long run. NCL has been targeted with a whopping 410 Million Cubic Meter Over Burden Removal in FY 2022-23.

The company is marching ahead with 26% y-o-y growth in OBR and has removed 326.10 Million Cubic Meter OBR till Date. NCL is setting up its benchmarks high in daily OBR and has scripted history multiple times by removing

the record Over Burden in a single day during November and December. The latest feat was accomplished recently when NCL removed 14.88 Lakh Cubic Meter Over Burden in One Day. It is needless to mention here that NCL is the biggest volume-handling (Coal + Over Burden) company of the nation.

NCL is continuously developing its infrastructure to boost coal production and dispatch in the wake of increasing targets, NCL is eyeing ₹1900 crore capital expenditure in FY 2022-23 and has spent more than ₹1500 crore till last month. The company is also working on 9 First Mile Connectivity Projects to boost eco-friendly coal dispatch through Rail Mode directly from its mines.

EIL secures assignment for providing Owner's Engineer Services for Polysilicon and Monosilane Project from M/s Mundra Solar Technology Limited

Engineers India Limited (EIL) has secured an assignment for providing Owner's Engineer Services for 30,000 MTPA Polysilicon and 500 MTPA Monosilane Project from M/s Mundra Solar Technology Limited. Polysilicon is one of the niche products and is the primary component for

manufacturing Photovoltaic panels. This is big boost to the 'Make in India' and 'Aatmanirbhar Bharat' initiative of the Govt. of India having the potential to expand the indigenous manufacturing of Polysilicon. These key components are mostly being imported by the country at present.

Commenting on this new assignment, Smt. Vartika Shukla, CMD, EIL said "Aligned with the vision of Government of India on energy security and production-linked incentives (PLI) which sets the Government's priority, it's a strategic assignment for EIL, foraying in diversified sectors for business growth continuing to offer sustainable solutions".

PSEs Ink MoU

EIL signs MoU for FY 2022-23 with Ministry of Petroleum & Natural Gas



Shri Pankaj Jain, Secretary, MoP&NG and Smt. Vartika Shukla, CMD, EIL along with other senior officials from MoP&NG and EIL after MoU signing.

Engineers India Limited (EIL) and Ministry of Petroleum & Natural Gas (MoP&NG) signed the Memorandum of Understanding (MoU) for FY 2022-23. The MoU was signed by Shri Pankaj Jain, Secretary, MoP&NG and Smt. Vartika Shukla, CMD, EIL. Smt. Sujata Sharma, Joint Secretary (Refineries), MoP&NG, Shri Ashok Kumar Kalra, Director (HR), EIL and Shri Sanjay Jindal, Director (Finance), EIL were also present on the occasion.

Commenting on this development, Smt. Vartika Shukla, CMD, EIL said "EIL is poised to achieve the declared MoU objectives for FY 2022-23 through its growth Strategies to secure more business opportunities globally in the near future".

Hindustan Copper Limited signs MoU with IIT (ISM), Dhanbad

A Memorandum of Understanding for collaborative and sponsored research projects was signed between Hindustan Copper Limited and Indian Institute of Technology (Indian School of Mines), Dhanbad at HCL Corporate Office in Kolkata in the presence of Shri Arun Kumar Shukla, CMD, HCL, Professor Rajiv Shekhar, Director, IIT (ISM), Dhanbad. BHEL enters into Technology License Agreement with Sumitomo SHI FW, Finland for CFBC Boilers.



Shri Arun Kumar Shukla, CMD, HCL and Professor Rajiv Shekhar, Director, IIT (ISM), Dhanbad, at the signing of the Memorandum of Understanding at HCL Corporate Office in Kolkata.

Technical collaboration with IIT (ISM), Dhanbad, for the first time in its history makes this a momentous occasion for HCL, the only copper miner in India, owning all the operating mining leases of copper ore in the nation. Presently, majority of ore production comes through underground mode only and the level of ore production is hovering around 4 million tonnes per annum.



Shri Arun Kumar Shukla, CMD, HCL, and Shri Sanjiv Kumar Singh, Director (Mining) during the signing.

Due to the complex geological characteristics of the ore body and the increased depth of mining, various geo-technical and ground water related issues along with technical/operational problems are being faced during the process of production along with maintaining safety standards and dealing the emerging sustainability issues.

HCL is in its expansion phase with about 3-fold enhancement of ore production capacity wherein development activities in projects are either ongoing in nature or already planned in most of its mines. Presently, as per business decision, the mined out ore is processed at its own ore beneficiation plants and the Metals in Concentrate (MIC) is sold partially in domestic market and the rest in international market.

IIT-ISM, Dhanbad, being an Institute of national repute, particularly in the fields of Mining of Minerals and its beneficiation and Earth Sciences, will play a key role in solving the emerging geological, technical, environmental, sustainable and ore beneficiation issues for achieving the envisaged expansion programme of HCL.



Shri Arun Kumar Shukla, CMD, HCL, Shri Sanjay Panjiyar, Director (Operations), Shri Ghanshyam Sharma, Director (Finance), Shri Sanjiv Kumar Singh, Director (Mining), Professor Rajiv Shekhar, Director, IIT (ISM), Dhanbad, Professor Dheeraj Kumar, Deputy Director, IIT (ISM), senior executives of HCL at HCL Corporate Office in Kolkata.

The MoU signed will address HCL's need for technical assistance, guidance and consultancy work from IIT-ISM for enhancing copper ore production through modifying mining methods with application of state-of-the-art technologies, improvement of productivity and safety in mines, environmental clearance issues, various Hydrological & Hydrogeological studies and in areas of unconventional exploration methods like Geophysical exploration, Remote Sensing etc. for depth exploration of copper ore. The Company desires to partner IIT-ISM in taking up R&D projects for improvement of the Indian copper mining sector, training and development of HCL Engineers and Managers for skill set development and knowledge upgradation in the areas of exploration, ore beneficiation and various other statutory/mine regulation amendments or related issues.

HPCL signs MoU with NTPC Green Energy Ltd. (NGEL)



Officials from HPCL and NTPC after MoU signing.

In HPCL's efforts to accelerate contribution towards India's Nationally Determined Contribution (NDC), realize green energy objectives and maximize contribution to the GoI's efforts towards a carbon neutral economy, an MoU has been signed between HPCL and NTPC Green Energy Ltd. (NGEL).

The MoU was signed by ED- BioFuels & Renewables, and Head of Finance- NGEL. This MoU envisages co-operation and collaboration in the field of Renewable Energy (RE), Energy Storage Projects, RTC Power, Electric Mobility, Solar/Wind Value Chain and meeting HPCL's Green Power Requirements by leveraging each other's expertise.

The MoU is part of HPCL's strategy to rapidly expand into RE domain to leverage Business Opportunities in RE sector and to meet the internal requirements of Round the Clock Green Power for HPCL Refineries, Locations, Retail Outlets and EV Charging stations.

ONGC inks MoU with Shell for Carbon Capture, Utilization and Storage

Oil and Natural Gas Corporation Limited (ONGC) has signed a MoU with global petroleum giant Shell for cooperation in Carbon Capture Utilization and Storage (CCUS) studies. The collaboration shall focus on joint CO₂ storage study and EOR screening assessment for key basins in India including depleted oil and gas fields, saline aquifers. ONGC and Shell signed this MoU in Delhi.



Shri R.K. Srivastava, CMD, ONGC; Shri Nitin Prasad, Chairman, Shell Group of Companies in India; Shri Pankaj Jain, Secretary, Ministry of Petroleum and Natural Gas and other officials from ONGC and Shell Group of Companies after MoU signing.

The MoU was signed by Shri R. K. Srivastava, CMD, ONGC and Shri Nitin Prasad, Chairman of Shell Group of companies in India in the presence of senior executives of both the companies. The MoU was exchanged in the presence of Shri Pankaj Jain, Secretary, Ministry of Petroleum and Natural Gas.

The MoU is aimed at developing CCUS/CCS as an emissions mitigation tool for combating Climate Change and injecting carbon dioxide (CO₂) for geological storage as well as enhanced oil production from mature fields of ONGC.

OTPC inks MoU with APDCL to develop 250 MW battery energy storage system in Assam, to attract 2000 Crore investment

ONGC Tripura Power Company Limited (OTPC) has signed a Memorandum of Understanding (MoU) with Assam Power Distribution Company Limited (APDCL) at Guwahati recently. The MoU has been inked to develop Battery Energy Storage System Project of capacity up to 250 MW / 500 MWh in phased manner in Assam by incorporating a Joint Venture Company. An investment of Rs. 2,000 crores will be made in the state for developing the project. During construction and operation stages of the project, significant direct and indirect employment opportunities will also be generated.

Speaking on the occasion, Minister of Power, Cooperation, Mines & Minerals, Indigenous & Tribal Faith and Cultural Department, Government



In the presence of, Minister of Power, the MoU was signed by MD, OTPC and MD, APDCL. On this occasion, senior officials of APDCL and OTPC were also present.

of Assam, Smt. Nandita Gorlosa said that the project will be an important milestone in fulfilling the vision of Chief Minister of Assam, of making the state a leader in green energy transition.

Highlighting the benefits of the project, MD of OTPC, Shri Sanil C. Namboodiripad said that the Project will help the state in improving power availability during peak load hours, improving the integration of renewable energy generation with electricity grid and enhancing grid reliability. "OTPC, a reliable energy supplier for Assam since 2014, is keen to be partner of Assam in its transition towards decarbonized energy mix. The energy storage project will bring in multiple avenues of employment, boost to local businesses, improved utilization of green energy, carbon emission reduction and over all socio-economic development in Assam."

MD of APDCL, Shri Rakesh Kumar (IAS) said that they are implementing significant solar energy capacity and battery energy storage project is key for successful integration of upcoming solar power projects. He added that with this project, Assam will be pioneer in implementing of energy storage system.

REC inks three strategic MoUs

REC Limited inked strategic MoUs in the backdrop of the Madhya Pradesh Global Investors Summit 2023. The summit has drawn interest both on the national and international stage and witnessed participation from more than 314 companies.



Officials from REC after MoU signing.

The first MoU was signed with the MP Power Management Company Limited (MPPMCL), to extend financial assistance of ₹15,086 crores for upcoming Sarani and Amarkantak thermal power projects, system improvement works, technology upgradation, renovation & modernization etc.

The second MoU was inked with Rewa Ultra Mega Solar Ltd. (RUMSL) wherein REC will commit a sum of ₹1,000 crores as financial assistance for renewable

energy projects covering the development of renewable energy parks/projects, and/or associated infrastructure including power evacuation. RUMSL has been designated as Solar Power Park Developer (SPPD) by the Ministry of New and Renewable Energy (MNRE) to develop large-scale solar parks in the state of Madhya Pradesh. This project will be a key addition to realize the renewable energy targets of Madhya Pradesh. The state aims to generate 20% of its electricity through renewable sources by financial year 2024, 30% by FY 2027 and 50% by FY 2030. REC has the vision to become a leading financial services provider in the renewable energy space.

Additionally, REC, in partnership with the World Bank has designed a financing facility for select state owned electricity distribution companies. As a part of this REC-World Bank program, the total volume of financing available shall be USD 1 Billion. Under this umbrella, REC committed an amount of ₹5,000 crores to MP DISCOMs to further strengthen the distribution reforms.

PSEs CSR Activities

REC collaborates with ALIMCO for distribution of aids & assistive devices to persons with special abilities



Officials from REC and ALIMCO along with persons with special abilities during the camp.

REC Limited has committed financial assistance of about ₹10 crore as a part of its CSR initiative. Under the initiative, REC is lending support to ALIMCO for 'Distribution of aids & assistive devices to persons with special abilities' by organizing 25 camps in various Districts/States across the country over a period of two years.

As a part of the project, two camps for distribution of aids and appliances to persons with special abilities were organized in Raipur. The first camp was organized in Mana Camp in the presence of Shri Vivek Kumar Dewangan, CMD, REC; Shri Ajoy Choudhury, Director (Finance), REC; Dr. Sarveshwar Narendra Bhure, IAS, Collector & DM - Raipur and other officials of REC Limited, ALIMCO and the district administration. A second camp was organized in Aadarsh Nagar on the same day.

Awards & Accolades to PSEs

EIL conferred with Swachhta Award by MoP&NG



Shri Hardeep Singh Puri, Union Minister of Petroleum & Natural Gas and Housing & Urban Affairs presenting the Award to Smt. Vartika Shukla, CMD, EIL.

Engineers India Limited (EIL) has been bestowed with First Prize in Swachhta Pakhwada Awards by Ministry of Petroleum & Natural Gas (MoP&NG), Govt. of India for exemplary initiatives undertaken during Swachhta Pakhwada 2022 towards making Swachhta a “Jan Andolan”. Shri Hardeep Singh Puri, Union Minister of Petroleum & Natural Gas and Housing & Urban Affairs, presented the award to Smt. Vartika Shukla, CMD, EIL at an event held in Shastri Bhawan, New Delhi. Shri Rameswar Teli, Union Minister of State for Petroleum & Natural Gas and Labour & Employment also graced the occasion.

During the Swachhta Pakhwada, EIL undertook a lot of innovative activities, such as Prabhat Pheri, Distribution & Awareness Drives in Slums & Schools, Tree Plantations & Maintenance, Clean Neighbourhood Contest, Competitions in Schools, Swachhta Rallies around offices, etc. This showcases the commitment and enthusiasm of EIL to reach wide spectrum of people across India in creating awareness and inspiration about Swachhta Movement.

NBCC bags ‘Best Stall’ Award in Shining Maharashtra Exhibition



Officials from NBCC receiving the 'Best Stall' Award in Shining Maharashtra Exhibition.

NBCC bagged the ‘Best Stall’ Award in Shining Maharashtra Exhibition held under the aegis of Azadi Ka Amrit Mahotsav at Akluj, Maharashtra. The stall witnessed a huge footfall during the exhibition. The exhibition was inaugurated by Shri Ranjeet Singh Naik Nimbalkar, MP (Lok Sabha), Madha, Maharashtra and he paid visit to the NBCC stall and interacted with the NBCC officials. The Gram Pradhans of the Akluj area also paid visit to the NBCC stall.

The top attraction of the NBCC stall was the WTC, Nauroji Nagar Project wherein the visitors enquired and got information about the NBCC’s flagship project. More than 40 PSUs participated in the exhibition.

POWERGRID wins Corporate Impact Award at Platts Global Energy Awards

Power Grid Corporation of India Ltd. (POWERGRID) has been awarded with the Corporate

Impact Award in the Critical Response category at the 2022 Platts Global Energy Awards.

Platts Global Energy Awards, described as the “Oscars” of energy, recognizes excellence in the global energy industry. The awards in 19 performance categories were bestowed on energy companies from the U.S., U.K, Denmark, Uzbekistan, India, United Arab Emirates and Singapore. Winners were selected from hundreds of participants representing 26 countries from across the globe.

The theme for this year’s awards was Committed, Connected, Charged.

POWERGRID’s broad-reaching program focused on providing immediate help to children in distressed situations along with comprehensive support including physical and psychological rehabilitation, workforce training and apprenticeships, earned it the coveted Platts Global Energy Awards under Corporate Impact Award: Critical Response category at New York City.

Personalia



Shri Prasanna Kumar Motupalli
assumes charge as Chairman & Managing Director of NLC India Limited.



Shri Anurag Kumar
assumes charge as Chairman & Managing Director of Electronics Corporation of India Limited.



Shri R.K. Jain
assumes charge as Chairman of Indraprastha Gas Limited.



Shri Sanjeev Singhal
assumes additional charge as Chairman & Managing Director of Mazagon Dock Shipbuilders Limited.



Shri Rajeev Gupta
assumes charge as Director (Projects) of Engineers India Limited.



Shri Damodar Bhattad S.
assumes charge as Director (Finance) of Bharat Electronics Limited.



Smt. Sangeeta Ramrakhyani
assumes charge as Director (Personnel) of Central Warehousing Corporation.



Dr. G. Jawahar
assumes charge as Director (HR) of BEML Limited.

NHPC celebrates 74th Republic Day



Shri Y.K. Chaubey, Director (Technical) and Director (Personnel), NHPC addressing the gathering during 74th Republic Day celebrations at NHPC Office Complex, Faridabad. Shri R.P. Goyal, Director (Finance), NHPC, senior officers and staff of NHPC were also present on the occasion.

NHPC celebrated India's 74th Republic Day with great enthusiasm. The celebrations began with unfurling of the National Flag by Shri Y.K. Chaubey, Director (Technical) and Director (Personnel), NHPC and singing of National Anthem at NHPC Corporate Office, Faridabad. Shri R.P. Goyal, Director (Finance), NHPC along with other senior officers and employees and their family members were also present on the occasion.

Speaking on the occasion, Shri Y.K. Chaubey extended his greetings to the entire NHPC family on Republic Day. Shri Chaubey said that today we must remember sacrifices of our former leaders and freedom fighters of our nation. He further informed that NHPC is playing a key role in the Indian power sector and is generating more than 7 GW of power through its 25 power stations. Shri Chaubey also said that NHPC currently has 14 projects under construction of total 7601 MW capacity and projects of more than 7000 MW under various stages of clearance. Shri Chaubey appealed to all NHPC employees to work with total dedication and perform their duties with full determination. The programme was also broadcasted live across all NHPC locations through web casting.

Innovation, Augmentation, Social Responsibility– the Thrust are for NLCIL in this “Amrit Kaal” of India- CMD, NLCIL at the Republic Day 2023 celebrations



Shri Prasanna Kumar Motupalli, CMD, NLCIL, during the 74th Republic Day celebrations.

The 74th Republic Day of the Nation was celebrated at NLCIL with customary fervour and enthusiasm. Shri Prasanna Kumar Motupalli, CMD, NLCIL, unfurled the tricolor at Bharathi Stadium, Neyveli on behalf of the company in the presence of Functional Directors, Senior Officers, CISF officials, representatives of recognized Trade Unions, Associations representing Engineers & Officers, SC/ST, ST, OBC associations and women employees. Shri K. Mohan Reddy, Director (P&P) and HR (AC) delivered the welcome address. Earlier, Shri Prasanna Kumar garlanded the statue of Father

of the Nation, Mahatma Gandhi at the Township Administration office.

Addressing the gathering, Shri Prasanna Kumar recalled the contributions of Dr. B.R. Ambedkar, the architect of Indian Constitution, while paying tributes to Mahatma Gandhi and the freedom fighters and Martyrs. He recalled the vision of the Hon'ble Prime Minister, in this "Amrit Kaal" from the 75th year of India's independence to the centenary year, to take India towards a futuristic, prosperous, inclusive and developed society, distinguished by a human-centric approach at its core, with the G20 Presidency marking the beginning.

In this backdrop, as a central public sector unit partnering the progress of nation building, Shri Prasanna Kumar affirmed NLCIL's role in the growth of the Power sector to support the economic development of India. NLCIL had spread its wings from Tamil Nadu to other five States across India and made strategic diversification into Coal Mining, Coal based power generation with forays into renewable energy sector - Wind and Solar in a big way. NLCIL had also entered into strategic collaboration with many power sector players, thus guaranteeing a sustainable future, he said.

NMDC releases its Sustainability Report on 74th Republic Day



Shri Sumit Deb, CMD, NMDC; Shri Amitava Mukherjee, Director (Finance), NMDC; Shri Dilip Kumar Mohanty, Director (Production), NMDC and Shri B. Vishwanath, CVO, NMDC releasing the Sustainability Report.

NMDC celebrated the 74th Republic Day of India with pride and patriotism at its Head Office and Projects across India. Shri Sumit Deb, CMD,

NMDC hoisted the National Flag at Khanij Bhavan, Hyderabad and addressed the employees.

Shri Sumit Deb, CMD, NMDC; Shri Amitava Mukherjee, Director (Finance), NMDC; Shri Dilip Kumar Mohanty, Director (Production), NMDC and Shri B. Vishwanath, CVO, NMDC released the company's Sustainability Report based on Environment, Social and Governance (ESG) principles. The report is a comprehensive document that covers all nine principles of the Business Responsibility and Sustainability Reporting (BRSR) framework. The theme of NMDC Sustainability Report is "Shouldering National Responsibility".

The company invited children who won the NMDC Azadi Ka Amrit Mahotsav Drawing and Quiz Competitions to its Republic Day celebrations. By felicitating the children, NMDC encouraged the future of our country to envision a new India and contribute to nation-building tomorrow.

In his Republic Day address, Shri Sumit Deb said, "As arduous it was to make this country a Republic, it is equally challenging to build an India that can tend to the needs and aspirations of the people of this Republic. NMDC is devoted towards making India into an iron and steel powerhouse, but our role in nation building goes beyond that. An eco-friendly and socio-culturally responsible company, we ensure that India's development is sustainable and inclusive. It is NMDC's honour to fulfill our duty of building a glorious and self-reliant nation."

On India's 74th Republic Day, GRSE takes a pledge to enhance 'Aatmanirbharta'

India's 74th Republic Day was celebrated with patriotic fervour at Garden Reach Shipbuilders and Engineers (GRSE) Ltd. at its headquarters in Kolkata. The shipyard has cause to celebrate. Over the last 12 months, GRSE has contributed immensely to the country's 'Aatmanirbharta' pledge by launching and delivering several vessels, not only to the Indian Navy and Indian Coast Guard but also to friendly foreign countries like the Cooperative Republic of Guyana.

The celebration at GRSE Bhawan started with unfurling of the National Flag by Cmde P. R. Hari IN (Retd.), CMD, GRSE, in the presence of Shri Mihir Kumbhakar, CVO, GRSE, Sr. Comdt Shashi

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Cmde. P.R. Hari IN (Retd.), CMD, GRSE, during 74th Republic Day celebrations.

Ranjan, CISF and other senior officials and employees of GRSE, followed by the National Anthem. On this occasion, impressive ‘rifle drill’ and ‘pistol drill’ were displayed by the Central Industrial Security Force (CISF) that is in charge of security at GRSE.

In his address, Cmde P.R. Hari, IN (Retd.), CMD, GRSE highlighted the declaration of ‘Purna Swaraj’ by leaders of India’s freedom struggle, 93 years back on 26th January 1930, clearly indicating their intent to free our country from colonial rule. CMD, GRSE mentioned that it took 17 and a half years of sustained struggle to attain independence and India enacted the constitution on 26th January 1950. Over the last 7 and a half decades 73 years, the nation has grown from strength to strength, and today India is a mature, robust, sovereign republic and the whole world looks at India for showing the path towards the future. He acknowledged this year’s theme of the Republic Day “Jan Bhagidari” that is participative governance as one of the best themes as people are the cornerstone of any

democracy. He reiterated the need for one and all to participate in celebrating such occasions as these celebrations are a constant reminder to us that freedom does not come free and also what it takes to attain freedom and what it must take to retain and sustain freedom.

NALCO CMD unfurls National Flag at Damanjodi



Shri Sridhar Patra, CMD, NALCO during the 74th Republic Day celebrations at the Company’s Mines and Refinery Complex at Damanjodi.

NALCO joined the nation in celebrating the 74th Republic Day with great patriotic fervour at all its production units, corporate headquarters and regional offices across the country. Shri Sridhar Patra, CMD unfurled the National Flag at the Company’s Mines and Refinery Complex at Damanjodi in Koraput district of Odisha. Shri Patra lauded the efforts of NALCO collective in nation building and gave a clarion call for working with renewed dedication, discipline and determination to take NALCO to the next level of business excellence, which in turn, he said, will be our contribution towards “Aatmanirbhar Bharat” and for becoming an integral part of India of the 21st century. At the Corporate Headquarters in Bhubaneswar, the National Flag was unfurled by Shri C.R. Pradhan, former CMD of the company.

BEL to showcase its capabilities at Aero India 2023



Akash Air Defence Weapon System

At Aero India 2023, to be held at Yelahanka Air Force Station, Bengaluru, Bharat Electronics Limited (BEL) will showcase state-of-the-art products and systems spanning every domain of its business.

The products and systems to be on display during Aero India 2023 have been clustered as 'Air Defence & Surveillance', 'C4I Systems', 'Artificial Intelligence-based Products', 'Non-Defence & Diversification Products', 'Radar Systems', 'Communication Systems', 'Airborne Products & Systems', 'Homeland Security and Cyber Security', 'Futuristic Technologies', 'Missile Systems', 'EO & Laser-based Products', and 'Outdoor Display Products'. In addition, BEL will also showcase its R&D capabilities by launching/demonstrating some of its new products/technologies.

BEL's display in the area of 'Air Defence & Surveillance' will include Hexacopter, Tethered UAV, Swarm of UAVs, Robotic Surveillance, Shallow Water Remotely Operated Vehicle (ROV) and D4 Anti-drone Systems. The display in the area of 'C4I Systems' will include C4I technologies, Combat Management Systems and Navigational Consoles and that in the area of 'Artificial Intelligence-based Products' will include AI-based activity interference of air targets for situation awareness.

Also on show will be the complete range of products and systems for 'Non-Defence & Diversification', including High Level Network Management in Advance Net Centric Operation, Virtual Reality for Rolling Stock Driver Training System, Air Traffic Management System for Civilian Airport,

Advanced Surface Movement Guidance Control System, Super SCADA for Delhi Metro Rail Corporation, Virtual Reality-based Training Simulator, X-ray Baggage Inspection System, Explosive Detector, Automatic Chemical Agent Detector and Alarm, Fuel Cell, Electric Vehicle Batteries for two wheelers and three wheelers.

BEL will showcase its 'Radar Systems' comprising Combined Interrogator and Transponder System, Battle Field Short Range Active Electronically Scanned Array (BFSR-AESA) Radar, Frequency-modulated Continuous-wave based Drone Detection Radar, Air Defence Fire Control Radar, Close-in Weapon System, Mountain Fire Control Radar, Weapon Locating Radar, BFSR-XR, X-Band Multi-Function Radar, Battery Surveillance Radar, AESA Radar, and models of 3D Low Level Light Weight Surveillance Radar and 4D Phased Array Medium Power Radar.

BEL's display in the area of 'Communication Systems' will include Tactical Data Link, 0.76M Ku Band Manpack Terminal (manual assisted), Instant Fire Detection and Suppression System, Rugged Switches, Rugged Routers, Mine Field Recording System, Network Hardware Security Modules, Data Link Receiver Unit, High Capacity Radio Relay, Manpack High Frequency Software Defined Radio (SDR), Point-to-Multi-Point Radio, DSSS

Networking Radio, SDR Airborne version, SDR Hand Held Naval version, SDR Manpack Naval version, SDR Naval Combat, SDR Tactical, Encryptor, Multi Capacity Encryption Unit, Data Multiplexer-cum-Encryption Unit, Configurable Live Mk-II, BEL Tactical Computer Mk-VI, Hardware Security Module, Rugged Tablet, Network Time Server and Data Diode.

'Airborne Products & Systems' on display will include Ultra Violet Missile Approach Warning System, Self-Protection Suite for Helicopters, Hand Held Field Signal Generator, HD Airborne Spread Spectrum Modem, HD Ground Spread Spectrum Modem, Directed Infrared Counter Measure System, Tarang II Radar Warning Receiver and Display Unit Indigenous.

Other 'Futuristic Technologies' on display include Automatic Dependent Surveillance-Broadcast System, Position Indicator-G3I, Hand-Held Indian Regional Navigation Satellite System, Extended C-Band Block Up-Converter, Monolithic Microwave Integrated Circuit, C Band Phase Locked Oscillator, Router with Call Manager, Voice Gateway Unit, MIL-GRADE TAB, Signal Processing Unit for Flight Level Radar, UHF RFID Reader, 3 ATI Display, Torpbuster CPU Board and Smart Energy Meter.

The 'Homeland Security and Cyber Security' cluster will include display of Smart City solutions, Homeland Security solutions, Comprehensive Integrated Border Management System, Naval Airfield Integrated Security System, and Inte-grated

Perimeter Surveillance System, while the 'Missile Systems' display will include Air Defence Weapon System.

'EO & Laser-based Products' will include Pa-noramic Night Vision Goggle, Twin Tube Goggle, Laser Dazzler, Corner Shot Weapon System, Multipurpose Reflex Weapon Sight, Mini Eye-safe LRF Module, FO Gyro-based Sensor Packaged Unit, Laser Fence System, Electronic Artillery Fuzes and Aerial Fuze.

The highlight of BEL's outdoor display will be GIMBAL for Tethered UAV, Tethered UAV, Shallow Water ROV, Hexacopter and Ultra-Light Weight Enclosure with platform.

The entire set of state-of-the-art equipment on offer will be a force multiplier for any Defence force and civilian requirements.



The advertisement features a collage of 'KALEIDO SCOPE' magazine covers on the left. In the center, there is a circular logo with the text 'SCOPE PROMOTING EXCELLENCE' and a large '50' representing the anniversary. Below the logo, the 'KALEIDO SCOPE' title is written in a large, bold, blue font with a red underline. At the bottom left, there is a QR code with the text 'Scan to read other issues of KALEIDOSCOPE'. At the bottom right, there is contact information for advertisement booking.

For advertisement booking, write to:

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GM (Tech. & HR)
pr@scopeonline.in, 9873398242



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- Modernization of mines in full swing.

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