

KALEIDO SCOPE

STANDING CONFERENCE OF PUBLIC ENTERPRISES

New Executive Board of SCOPE Elected

Shri Sandeep Kumar Gupta, Chairman

Shri Brajesh Kumar Upadhyay, Vice Chairman



Shri Sandeep Kumar Gupta
Chairman, SCOPE &
CMD, GAIL (India) Ltd.



Shri Brajesh Kumar Upadhyay
Vice Chairman, SCOPE &
CMD, Goa Shipyard Ltd.



SCOPE Biennial Elections 2023-25 held



SCOPE participates in IOE's
Asia Employers Group Meeting

SCOPE & PSEs celebrate Public Sector Day





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Lignite based Power
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Generation 1000 MW



Renewable Energy
(Solar) 1370 MW



Renewable Energy
(Wind) 51 MW

MTPA: Million Tonne per Annum / MW: Mega Watt



NLC India Limited

'Navratna' - Government of India Enterprise

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

Regd. Office: 'Neyveli House', No. 135, E. V. R. Periyar High Road, Kilpauk, Chennai - 600 010, Tamil Nadu

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Message by Chairman

It is indeed a matter of great privilege and honour for me, as I take over as the Chairman of Standing Conference of Public Enterprises (SCOPE), the apex body of Public Sector Enterprises (PSEs) in India. I would like to convey my best wishes to all the members of SCOPE fraternity for Public Sector Day on 10th April.

Over the past 50 years, SCOPE has been championing the cause of PSEs as nation-builders, contributing to the socio-economic development of the country. In today's environment of neo-liberalisation and competitive global scenario, SCOPE has been a guiding force behind PSEs to not just thrive in the business but operate and compete successfully with the private sector and global MNCs. I hope, with the combined strengths of all PSEs, we can leverage the emerging and innovative opportunities to our advantage, catapulting PSEs into a brighter future.

India is the fastest growing economy in the world and as the country assumes a pivotal position, the time is ripe for PSEs to take on the mantle of steering India's growth story. The recently released Public Enterprises Survey 2021-22 by the Department of Public Enterprises (DPE), shows significant improvement in the performance of PSEs. It mentions the Overall

Net Profit of operating CPSEs during FY 2021-22 at Rs. 2.49 lakh crore, as against Rs. 1.65 lakh crore during FY 2020-21, reflecting an impressive increase of over 50%.

In today's dynamic work environment, continuous learning, skilling, and upskilling remain the main prerogatives of organizations. Pursuant to this, SCOPE has evolved its approach to create innovative opportunities for the PSE fraternity. Through its varied activities of policy advocacy, capacity building, research and studies, SCOPE is looking at unearthing novel opportunities.

Bringing together experts from across the globe, through its diverse programs and workshops and collaboration with renowned national and international institutes, SCOPE will continue to accentuate the competitiveness and capabilities of PSEs for creating international benchmarks.

I look forward to the feedback and ideas of our members to further improve our efforts as the apex organization. As the new team of SCOPE surges ahead with fresh aspirations and commitment, the day is not far when we can reach new pinnacles of success.

Thanking You,
Sandeep Kumar Gupta
Chairman, 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

SCOPE FORUM OF CONCILIATION & ARBITRATION (SFCA)

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Manager

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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

April marks a momentous time for SCOPE, as each year we honour the significant contribution of Public Sector Enterprises (PSEs), not just as a pivotal part of the economy, but as drivers of development across the nation.

Especially this year, as SCOPE turns 50. I extend my warm wishes to the entire Public Sector fraternity and compliment them for their credible contribution towards the national economy. I am happy that as per the tradition of these celebrations, weeklong activities are being planned across the country to commemorate the successful journey of PSEs. SCOPE looks forward to the enthusiastic participation of its members, in these celebrations.

Marking a new chapter of our journey, I would like to share that the New SCOPE Executive Board for the term 2023-25 has been elected. I am happy to share that Shri Sandeep Kumar Gupta, CMD, GAIL (India) Ltd. has been elected as Chairman, SCOPE and Shri Brajesh Kumar Upadhyay, CMD, Goa Shipyard Ltd. has taken over as Vice Chairman, SCOPE. I take this opportunity to thank our member PSEs for their ever-uplifting participation in SCOPE Elections, reposing their faith in the apex body.

Anchoring our activities, SCOPE's mantra has been to be an Inspiring, Innovative and Impactful apex body of PSEs. The last two years have been an amalgamation of interfacing with national and international stakeholders, representing PSEs at diverse forums, chalking out new opportunities of conducive learning, while skilling and building capacities as per the new dynamic environment.

And now, as we stand at this cusp of change, 'to learn we need to unlearn,' has been our biggest learning. A small snippet of our two years of activities can be seen in this issue of KALEIDOSCOPE. Along with, a few pages from the history of SCOPE.

At the recently held PSU Summit by AIMA, I got a unique opportunity to enunciate the tremendous contribution of PSEs in the national economy, their

incessant role and the bright future in the overall development scenario. SCOPE also participated in IOE's Asia Employers Group Meeting, where employers' group expectations and priorities were deliberated.

Moving ahead, SCOPE has planned numerous pertinent programs on diverse topics. We are also aware that due to their presence in hard to abate sectors, PSEs' operations can leave behind substantial environmental footprint, working on this end, SCOPE and GIZ, Germany have a gamut of activities planned in the coming months.

As PSEs have continuously nurtured sportsmen in the country and their contribution to training and discovering talent from far-fetched areas of the country, we are now dedicating a special section to PSEs activities towards nurturing sports from this issue of the magazine. I encourage all PSEs to share their activities, which will be regularly featured in our magazine. This is yet another step as part of our endeavour to highlight the varied activities of PSEs across the country.

SCOPE will continue to expand its horizons, by continuously experimenting with newer ways to reach out to our stakeholders, while highlighting the efforts of PSEs in all areas. For this we look forward to your continuous support and feedback.

Programmes & Initiatives launched (since last issue of KALEIDOSCOPE)
SCOPE celebrates International Women's Day- 8 th March, 2023
SCOPE Biennial Elections 2023-25- 28 th March, 2023
Programmes & Initiatives in the offing
SCOPE and PSEs celebrate Public Sector Day-Weeklong Celebrations (10 th April-16 th April, 2023)
Workshop on Leadership Development for Women Executives
MoU between SCOPE & GIZ, Germany

Atul Sobti
Director General, SCOPE

SCOPE Biennial Elections 2023-25 results declared

Shri Sandeep Kumar Gupta, CMD, GAIL (India) Ltd. elected as Chairman, SCOPE



Shri Atul Sobti, DG, SCOPE and Returning Officer, SCOPE Elections declaring the election results.

Results of SCOPE Biennial Elections 2023-25 were declared by Shri Atul Sobti, DG, SCOPE and Returning Officer, in the presence of members of Public Sector Enterprises and contestants. The newly elected SCOPE Executive Board assumed office from 1st April, 2023.

While announcing the results, Shri Sobti said that SCOPE continues to witness enthusiastic participation of its member PSEs, in the SCOPE Board elections, which reiterates the faith of our members in SCOPE's endeavours as the apex body of PSEs in India.

As per the results declared, Shri Sandeep Kumar Gupta, CMD, GAIL (India) Ltd. has been elected as Chairman, SCOPE.

Shri Brajesh Kumar Upadhyay, CMD, Goa Shipyard Ltd. has been elected as Vice Chairman, SCOPE.

Other members elected to the Executive Board of SCOPE are: Shri Sujoy Choudhury, Director (Planning & Business Development), IOCL; Shri Ayush Gupta, Director (HR), GAIL; Shri Dillip Kumar Patel, Director (HR), NTPC; Shri Rajni Kant Agrawal, CMD, WAPCOS; Shri Krishna Kumar Singh, Director (Personnel), SAIL; Shri Rajendra Prasad Goyal, Director (Finance) NHPC; Shri Ravindra Kumar Tyagi, Director (Operations), POWERGRID; Smt. Usha Singh, Director (HR), MOIL; Shri Vinay Ranjan, Director (P&IR), Coal India Limited; Smt. Baldev Kaur

Sokhey, Director (Finance), NBCC; Shri Amitava Mukherjee, Director (Finance), NMDC; Shri Adika Ratna Sekhar, CMD, Balmer Lawrie; Shri Lalit Kumar Gupta, CMD, Cotton Corpn. of India Ltd.; Shri Lokesh Kumar Aggarwal, Director (Finance), ITDC; Shri Manoj Kumar, CMD, EdCIL; Shri Om Prakash Singh, Director (T&FS), ONGC; Shri Bhanu Prakash Srivastava, CMD, Addl. Charge, Director (Other Units) & Director (Marketing) BEL; Shri S.C. Mudgerikar, CMD, RCF and Dr. Siba Prasad Mohanty, CMD, BVFCL.

The newly elected board taking over at a propitious time, as SCOPE turns 50, aims at undertaking a wide spectrum of activities aligned with the core values and vision of SCOPE.

SCOPE Elections 2023-2025



**Shri Sandeep Kumar
Gupta**
Chairman, SCOPE

Shri Sandeep Kumar Gupta is CMD of GAIL (India) Limited, India's leading natural gas company with diversified interests across the natural gas value chain of trading, transmission, LPG production & transmission, LNG re-gasification, petrochemicals, city gas, E&P, etc. Before joining GAIL in October 2022, Shri Gupta held the position of Director (Finance) since August 2019 on the Board of Indian Oil Corporation Limited. As Director (Finance), he was in charge of F&A, Treasury, Pricing, International Trade, Optimization, Information Systems, Corporate Affairs, Legal, Risk Management, etc.

Shri Gupta is a Fellow of the Institute of Chartered Accountants of India and has received prestigious

individual recognition such as "CA CFO – Large Corporate – Manufacturing and Infrastructure Category" in January 2021 by ICAI and adjudged among Top 30 CFOs in India by StartupLanes.com in May 2022. He has wide experience of over 34 years of Oil & Gas Industry.



**Shri Brajesh Kumar
Upadhyay**
Vice Chairman, SCOPE

Shri Brajesh Kumar Upadhyay assumed charge of the post of Chairman & Managing Director of Goa Shipyard Limited (GSL) on 10.07.2022. He holds a B.E. degree in Electrical Engineering and is a Fellow member of Institute of Engineers, Kolkata and Institute of Electronic & Telecommunication Engineers, New Delhi.

Prior to assuming the charge of CMD, he was the Director (Operations) of GSL responsible for successful execution of new shipbuilding projects. He joined GSL as Graduate Engineer Trainee in year 1991. During his long career of 30 plus years in GSL, he held various key appointments in the functional and operational areas of the organization.

GSL under his leadership has created an enduring culture of delivering quality ships before contractual schedules and today is on a strong foundation for future projects. With a strong reputation of being a superior yard, Shri Upadhyay will be steering the expanding and diversified portfolio of the company such as Advanced Missile Frigate Program, Pollution Response Vessels Project, Fast Patrol Vessel project, Inland waterways and helming projects driven by the most advanced technologies to develop advanced systems and platforms for future defence requirements.

Known for his strong faith in technology-driven innovations, open communication and goal-oriented working style, Shri Brajesh Kumar Upadhyay is passionate about GSL's multi-dimensional growth, to make it a global organization, meeting the requirement of domestic as well as foreign customers in shipbuilding and allied areas.

SCOPE Elections 2023-2025



Newly Elected SCOPE Executive Board Members 2023-2025*



Shri Lokesh Kumar Aggarwal
Director (Finance), India Tourism Development Corporation Limited



Shri Rajni Kant Agrawal
CMD, WAPCOS Limited



Shri Sujoy Choudhury
Director (Planning & Business Development), Indian Oil Corporation Limited



Shri Rajendra Prasad Goyal
Director (Finance), NHPC Limited



Shri Ayush Gupta
Director (HR), GAIL (India) Limited



Shri Lalit Kumar Gupta
CMD, The Cotton Corporation of India Limited



Shri Manoj Kumar
CMD, EdCIL (India) Limited



Dr. Siba Prasad Mohanty
CMD, Brahmaputra Valley Fertilizer Corporation Limited



Shri S.C. Mudgerikar
CMD, Rashtriya Chemicals and Fertilizers Limited



Shri Amitava Mukherjee
CMD (Addl. Charge) & Director (Finance), NMDC Limited



Shri Dillip Kumar Patel
Director (HR), NTPC Limited



Shri Vinay Ranjan
Director (P & IR), Coal India Limited



Shri Adika Ratna Sekhar
CMD, Balmer Lawrie & Co. Limited



Shri Krishna Kumar Singh
Director (Personnel), Steel Authority of India Limited



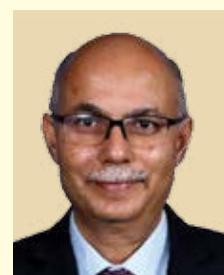
Shri Om Prakash Singh
Director (T & FS), Oil and Natural Gas Corporation Limited



Smt. Usha Singh
Director (HR), MOIL Limited



Smt. Baldev Kaur Sokhey
Director (Finance), NBCC (India) Limited



Shri Bhau Prakash Srivastava
CMD, (Addl. Charge), Director (Other Units) & Director (Marketing), Bharat Electronics Limited



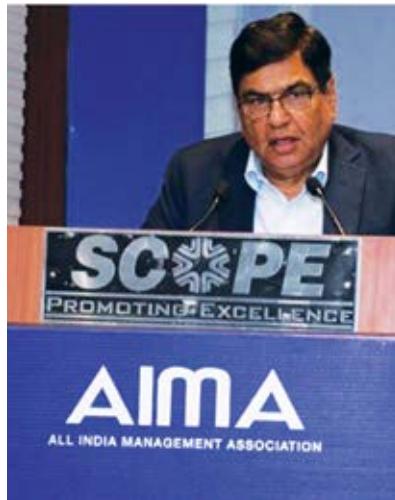
Shri Ravindra Kumar Tyagi
Director (Operations), Power Grid Corporation of India Limited

*In Alphabetical Order

SCOPE reiterates the role of PSEs at AIMA's PSU Summit

The All India Management Association (AIMA) organized PSU Summit 2023 on the theme 'Reimagining Public Sector: From Legacy to Future's Catalyst' on 14th March, 2023 at SCOPE Complex, Lodhi Road.

Shri Atul Sobti, DG, SCOPE was invited to speak at the summit reflecting upon the key role and importance of the Public Sector Enterprises (PSEs) in Nation Building through the years and their role in building the India of tomorrow.



Shri Atul Sobti, DG, SCOPE addressing the participants during PSU summit.

In his address, DG, SCOPE took the participants through the journey of PSEs in India, giving pertinent figures of the contribution made by PSEs in the country's core sectors. He also reflected that PSEs, acclimatizing with the latest and emerging technologies, need to find their niche in the country's industrial developments. Besides, he added, PSEs must look ahead to synergize, adapt, optimize, and share experiences with their private counterparts to achieve a more holistic economic growth for the country.

International Women's Day at SCOPE

International Women's Day was celebrated at SCOPE. Shri Atul Sobti, DG, SCOPE exhorted women employees to be determined and treat each challenge as an opportunity. Reiterating their pertinent role, he added, that if they put their heart and mind into any task, no feat is unfathomable for women.

SCOPE has been highlighting the pivotal role of women in organizations through its various endeavours. Reflecting on their transcendent roles in today's transformative times, SCOPE



Shri Atul Sobti, DG, SCOPE along with women employees during the celebration.

also recently brought out a study in association with ILO on the 'Impact of Working from Home'

(WfH) on Women Executives and Managers in Public Sector Enterprises (PSEs) in India.

Interface with Stakeholders



SCOPE participates in IOE's Asia Employers Group Meeting.

The advertisement features several issues of the KALEIDO SCOPE magazine displayed in a stack. A large circular logo in the center contains the word "SCOPE" above a stylized "5D". Below the logo, the word "KALEIDO" is written in red, and "SCOPE" is written in blue. To the left of the stack is a QR code with the text "Scan to read other issues of KALEIDOSCOPE" underneath. On the right side, there is a yellow banner with the text "For advertisement booking, write to:" followed by the contact information: Shubh Ratna, GM (Tech. & HR), pr@scopeonline.in, 9873398242.

#Careers@SCOPE

Standing Conference of Public Enterprises (SCOPE)

(an apex body of PSEs)
invites applications on

Deputation Basis

for

Technical

DGM | Sr. Manager/Manager|
Dy. Manager/Asst. Manager

Corporate Affairs

DGM | Dy. Manager

Legal

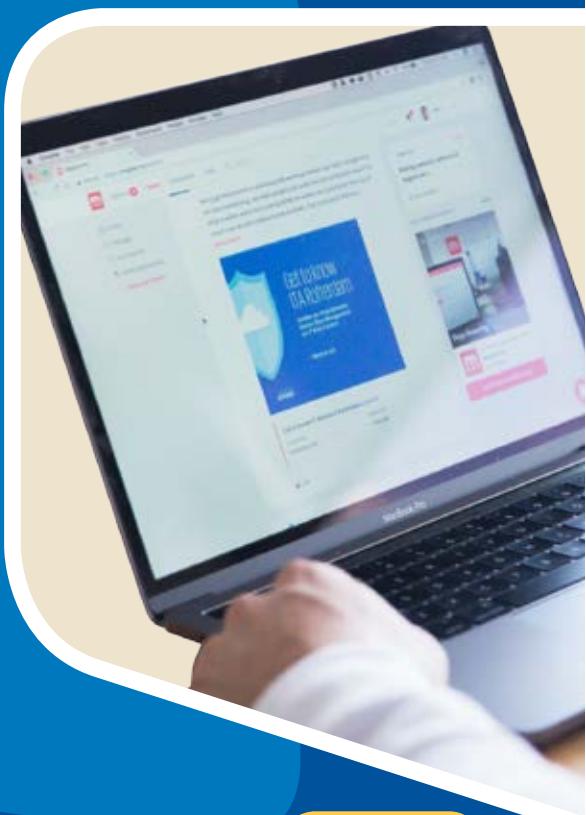
Senior Manager

Corporate Communications

Asst. Manager

Hospitality Management

Sr. Manager/Manager



For Further details or to apply visit :

www.scopeonline.in



Scan to visit
our Website



pr.scope



OrgSCOPE



PrSCOPE



PSUSCOPE



SCOPE



www.scopeonline.in

The Indian EXPRESS

18.02.2023



MEETING - SCOPE

CIE convened its meeting at SCOPE Convention Centre. Soma Mondal, Chairperson, SCOPE & Chairperson, CIE, chaired the meeting, deliberating on strengthening CIE's role, focusing on the desired role of Indian employers in tripartite forums.

Pg no : 20

Business Standard

Wednesday, February 1, 2023 | 05:30 PM IST

English | Hindi

1.02.2023

03:39 PM

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

SCOPE (Standing Conference of Public Enterprises), apex body of Public Sector Enterprises complements 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, Mr Atul Soofi, 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 added.

अमर उत्तराला

6.2.2023

Pg no : 6

स्कोप ने की बजट की सराहना

नई दिल्ली। स्कोप की ओर से वित्त मंत्री द्वारा पेश किए गए केंद्रीय बजट को विकास का बजट बताया गया है और वधाई दी गई है। बजट की सराहना करते हुए स्कोप के महानिवेशक अनुल सेवाती ने कहा है कि बजट का समाजिक और आर्थिक दोनों क्षेत्रों में गुणक प्राप्त यात्रा की संभवता है। यह एक सकारात्मक बजट है, जो जननियत दावों को मजबूत करेगा, नई योजनाओं, धरोल उद्योगों को प्रोत्साहित करेगा। इससे समाजशास्त्री विकास पर ध्यान केंद्रित होगा, कौशल विकास को ताकत मिलेगा। उन्होंने कहा है कि सरकार न नियमों का सखल बनाने की दिशा में एकत्रित भूमिका निभाइ है। इससे ज्यापार करने में आसानी होगी।



Hindustan Times

FIRST VOICE EAST WORD

11.02.2023

Pg no : 19



■ The Council of Indian Employers (CIE) comprising of All India Organisation of Employers (AIOE), Standing Conference of Public Enterprises (SCOPE) and Employers Federation of India (EFI) convened its meeting at SCOPE Convention Centre, New Delhi.

Hindustan Times

15.03.2023

Pg no : 20



■ International Women's Day was celebrated at Standing Conference of Public Enterprises. Atul Soofi, DG, SCOPE exhorted women employees to be determined and treat each challenge as an opportunity. He said that if they put their heart and mind into any task, no feat is unfathomable.

mid-day

14.03.2023

Pg no : 22



National meet of Women in Public Sector National Meet of Forward looking Public Sector (WIFPS) under the aegis of Standing Conference of Public Enterprises (SCOPE) organized at Kolkata, was inaugurated by Chief Guest, Mr. Atul Soofi, DG, SCOPE and Guest of honour, Mr. M. K. Singh, DG & CEO, Mantri Bhawan Bengal. The meet, attended by over 1000 participants from across the country, was held in presence of Dr. C. Sharad Pawar, President WIFPS, CMs, Directors and other officials of public sector industry. Speakers encouraged women employees and WIFPS to optimum opportunities to endorse larger roles and play a constructive role in developing best of tomorrow.

The Indian EXPRESS

JOURNALISM OF COURAGE

25.07.2022

Pg no : 20

GROWTH ORIENTED BUDGET

SCOPE, apex body of Public Sector Enterprises complements 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 Soofi, 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, 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 added.



The Tribune

14.03.2023

Pg no : 20

Women's day celebrations

International Women's Day was recently celebrated at Standing Conference of Public Enterprises (SCOPE). Atul Soofi, Director General, SCOPE, exhorted women employees to be determined and treat each challenge as an opportunity.

INDIAN PSU

M About Indian PSU
We Report – You Decide...

L.1.2023

SCOPE Hails A 'Growth-Oriented Inclusive Budget For All'

Budget moves towards simplifying regulations for ease of doing business, said DG, SCOPE



SCOPE, apex body of Public Sector Enterprises, complements 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, Mr. Atul Soofi, 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 added.

FINANCIAL EXPRESS

Pg no : 22

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SCOPE in Hindsight

New SCOPE Board envisions Newer Horizons

SCOPE organizes 'Tika Utsav' COVID-19 Vaccination Drive



SCOPE & PSEs observe Public Sector Day



SCOPE webinar on 'Sharing is Caring' - A Dialogue on Emotional Strengthening



SCOPE represent PSEs at 109th International Labour Conference, ILO



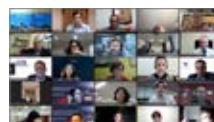
SCOPE Webinar on Myths & Realities of COVID



SCOPE observes International Yoga Day



SCOPE part of Indian tripartite delegation at International Labour Conference, ILO



SCOPE's Green Initiative



April 2021

May 2021

June 2021

SCOPE Twitter Series- Enunciating PSE's initiatives during COVID's second Wave



SCOPE Symposium on RTI Act 2021



SCOPE pays tribute to Father of the Nation, observes Swachhta Pakhwada

SCOPE Webinar on 'The Nature of Reality' with Dr. Deepak Chopra World Wellness Icon



11th EDP of SCOPE Academy of Public Sector Enterprises (APSE)



SCOPE represents PSE employers at Meeting of Central Board of Trustees, EPFO



ILO, Geneva highlights SCOPE's efforts towards TIKA Utsav



KALEIDOSCOPE Celebrates 40 years in print



SCOPE's address at PRSI Conference



October 2021

November 2021

December 2021

SCOPE presents role of Indian SOEs in Low Carbon Emissions at Asia Pacific Network of OECD

DG, SCOPE participates in UNSDCF meeting



SCOPE's discourse featured on Sansad TV on World Mental Health Day



SCOPE represents PSEs at IOE-KAS-DCO, Virtual dialogue series'



SCOPE at panel discussion at Dr. Pritam Singh memorial



SCOPE as Member, (DTNBWED) represents PSEs at meeting addressed by Union Minister for Labour and Employment, Shri Bhupender Yadav



High Level Committee (HLC) Meeting on Review of DPE Guidelines under the Chairmanship of Shri S. M. Vaidya, Chairman, IndianOil & Chairman, HLC at SCOPE



(April 2021-March 2023)

SCOPE-ILO unveil comprehensive study on 'Impact of Working from Home (Wfh)' on Women Executives



SCOPE-GIZ, Germany sign MoU to support PSEs in Climate Change Mitigation



SCOPE Webinar on Wills, Nomination & Inheritance



SCOPE at inauguration of Centre for Sustainability and CSR, IMT, Hyderabad



Chairman, Dattopant Thengadi National Board for Workers Education & Development visits SCOPE



SCOPE-GIZ release study highlighting PSEs role in Nation's Climate Agenda



SCOPE meeting with Shri Bhupender Yadav, Hon'ble Minister for Labour and Employment and Environment, Forest and Climate Change



DG, SCOPE visits Dr. Bhagwat Kishanrao Karad, Hon'ble MoS, Ministry of Finance



July 2021

SCOPE & PSEs cheer Indian sports persons at Tokyo Olympics



DG, SCOPE meets CIC



DG, SCOPE meets Secretary, DPE

SCOPE gives impetus to its Infrastructure facilities



August 2021

SCOPE address at Project Managers Global Summit 2021



SCOPE feature on 'Approach to Handling C-19' telecast several times on the TataSky Famhealth channel



SCOPE at OECD's Meeting of Asia-Pacific Network on Corporate Governance of SOEs



SCOPE AKAM Committee Meetings organised



2022

January 2022

SCOPE's 47th AGM



Virtual Workshop on 'Mindfulness for Organizational Excellence'



SCOPE represents Employers' Group at ILO's meeting on 'Impact of Digitalization in the Finance Sector'

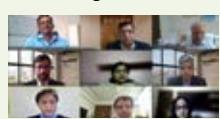


February 2022

National Meet of Women in Public Sector (WIPS)



SCOPE Webinar decodes Union Budget 2022



SCOPE's tribute to Mahatma Gandhi on Martyrs' Day



SCOPE at Foundation Day of Lal Bahadur Shastri Institute of Management



March 2022

SCOPE meeting with Chairman, Capacity Building Commission



SCOPE represents PSEs at EBMO Conference



DG, SCOPE addresses OCCUCLAVE 2022



SCOPE signs MoU with BASE University, Bengaluru for skill enrichment



SCOPE in Hindsight

SCOPE & PSEs celebrate Public Sector Day



SCOPE and Center for Creative Leadership, USA release study on preparing Future Fluent Leaders



SCOPE at UN's National Validation Workshop Gol-UNSDCF 2023-27

SCOPE leads Indian Employers' delegation, at ILO's International Labour Conference, Geneva



Second workshop on 'Mindfulness for Organisational Excellence'



DG, SCOPE conferred with Outstanding Leadership Award by IES



AKAM Mega Week Celebrated

Azadi ka Amrit Mahotsav (AKAM) grand celebrations by PSEs, organised by DPE in association with SCOPE.



Roundtable of CEOs on 'Role of CPSEs for a Self-Reliant India' held as part of AKAM Celebrations



April 2022

SCOPE at ILO preparatory meetings



DG, SCOPE at Public Sector Day celebrations, IOCL R&D Division, Faridabad



SCOPE participates in Climate Dialogue Series by Ministry of Environment, Forest and Climate Change and GIZ, Germany



SCOPE pays Tribute to Mahatma Gandhi



SCOPE represents Indian employers at IOE's General Council 2022



May 2022

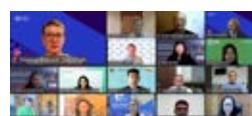
SCOPE's presentation at CIC Annual RTI Convention, Vigyan Bhawan



SCOPE address at EPFO program for Employers of Exempted PF Trusts



SCOPE at 2nd ILO/IOE AP Regional Conference



SCOPE commemorates Yoga Utsav 2022



June 2022

DPE in association with SCOPE organises Workshop on Procurement by CPSEs from MSEs



SCOPE's 48th AGM



World Project Management Forum (WPMF) Meet– SCOPE at Inaugural function



SCOPE at OECD Meeting of Asia-Pacific Network on Corporate Governance of SOEs, Indonesia



October 2022

Dr. G. Sanjeeva Reddy, President, Indian National Trade Union Congress (INTUC) and Shri Ashok Singh, Vice President, INTUC visits SCOPE



Dr. Madhu Rani Teotia, Land & Development Officer, Ministry of Urban Development visits SCOPE



SCOPE at BML Munjal University's Leadership Summit



DG, SCOPE meets Central Vigilance Commissioner



SCOPE trophy for the Best CPSU Team at the International Project Management Team Excellence Awards won by NTPC



SCOPE represents Employers at ILO's Validation Workshop for Decent Work Country Programme, India



DG, SCOPE interacts with Dr. Deepak Chopra, World Wellness Icon



DG, SCOPE Inaugurates 1st PSU Badminton Tournament by PSU Connect media



November 2022

SCOPE meeting with Former Chief Justice of India, T.S. Thakur



December 2022

(April 2021-March 2023)

SCOPE - ICAI sign MoU for capacity enhancement and knowledge building



SCOPE calls on
Shri R. K. Mathur,
Lieutenant Governor
of the Union
Territory of Ladakh



12th EDP by SCOPE APSE



Interaction with Assistant Director General and Regional Director for Asia and the Pacific, ILO



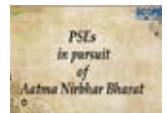
SCOPE - ICAI Workshop on Best Financial Reporting Practices



SCOPE organises National Meet on RTI Act in Leh, Ladakh



SCOPE's film commemorating AKAM released by Hon'ble Lt. Governor of Ladakh, Shri R.K. Mathur



SCOPE at Meeting under Chairmanship of Hon'ble Minister for Labour & Employment



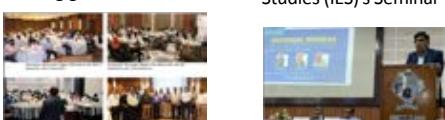
July 2022

SCOPE at Dattopant Thengadi National Board for Workers Education & Development meeting



August 2022

SCOPE & GIZ, Germany continue collaboration for building green skills of PSEs



Celebration of 'Har Ghar Tiranga' campaign in SCOPE



SCOPE address at Institute of Economic Studies (IES)'s Seminar

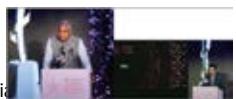


SCOPE represents PSEs at MSME Expo 2022



September 2022

SCOPE as Jury Member at BML Munjal Awards, graced by Shri Jagdeep Dhankhar, Hon'ble Vice President of India



SCOPE at Meeting of 'Audit Board for Central Public Sector Undertakings' organized by CAG, India



2023

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



SCOPE spearheads Council of Indian Employers' meeting at SCOPE



National Meet of WIPS under the aegis of SCOPE



SCOPE program on 'Decoding the Union Budget 2023'



SCOPE Biennial Elections 2023-25 held



SCOPE participates in IOE's Asia Employers Group Meeting 2023



January 2023

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



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



DG, SCOPE meeting with Stakeholders in Kolkata



SCOPE at Consultative meeting on G20 Education Agenda by NIEPA



February 2023

International Women's Day at SCOPE



SCOPE at AIMA's 4th PSU Summit



March 2023

Looking back at 50

SCOPE, founded in 1973, with the objective to serve the Since its inception, SCOPE has championed the incessant and their commitment to providing opportunities for

Genesis of an idea and birth of an institution



The New Horizon is here : Shri G.S. Pathak inaugurating the New Horizon exhibition. Left to right: Shri A.N. Banerji, former DG, BPE, Shri N.N. Kashyap, Chairman IOC, and Shri O.S. Murthy, Chairman BHEL.

Like all other legendary entities, SCOPE took roots in a modest way. The idea of an organisation of Public Enterprises to act as their spokesman and to interact with the owner i.e. the government was taking shape in the minds of a few dynamic chief executives way back in 1969.

A registered society called "NEW HORIZON" was set up in NEW DELHI on September 29, 1970, with the basic objective of promoting "better understanding among the public about the individual and collective contribution of public sector." A Central Information Centre baptised as NEW HORIZON was set up on the first floor of Chandralok Building at Janpath, New Delhi.

The people behind the translation of this innovative idea of an apex body of Public Enterprises were : Mr. N.N. Kashyap, ICS, then Chairman, Indian Oil Corporation, Mr. Mohammed Fazal, then CMD, Hindustan Insecticides Ltd; Mr. Satish

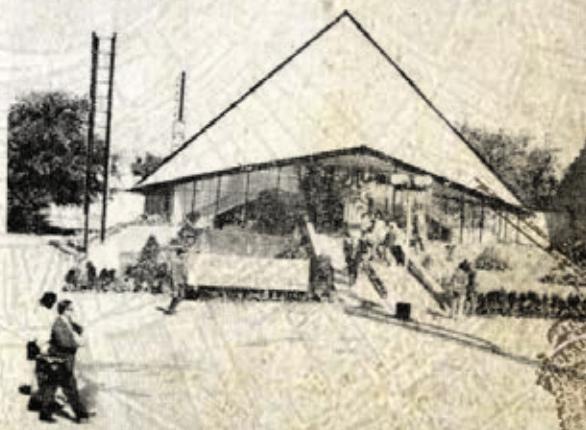
Chandra, ICS, then CMD, Fertilizer Corporation of India; the late Mr. M.K.K. Nayar, then CMD, FACT; Mr. K.T. Chandi, then CMD, Hindustan Steel; Mr. O.N. Murthy, then Chairman, BHEL and few others.

Gradually the amorphous concepts began to take shape. With the help and inspiration of the late Mr. Mohan Kumaramangalam, then Minister for Steel and Mr. Praxy Fernandes, then Director General, BPE, NEW HORIZON was rechristened as STANDING CONFERENCE OF PUBLIC ENTERPRISES (SCOPE).

The objectives were widened and SCOPE assumed the role and contours of an apex body of Central Public Sector Enterprises on April 10, 1973.

It was given formal recognition by the Government of India on November 8, 1976 by a decision of Union Cabinet.

The Prime Minister consented to become Patron-in-Chief of SCOPE in 1986.



A view of the SCOPE Pavilion in Asia '72

Glorious Years of SCOPE

**Public Sector, SCOPE completes 50 years of its existence in April 2023.
contribution of Public Sector Enterprises (PSEs) as nation builders
conducive learning and development.**

Extending the frontiers of Public Sector



Transcending with the times, SCOPE has evolved as a dynamic organization focused on creating a cohesive environment for building capacities and capabilities of PSEs. Through Policy Advocacy, Capacity Building , Research and Studies, National and International Representation and Collaborations, SCOPE remains steadfast in its commitment of building the brand of PSEs.



Making an Impact: The Importance of CSR Impact Assessment in Corporate Governance



Corporate Social Responsibility (CSR) is a concept that has gained widespread recognition in India over the past decade. It refers to a company's actions to improve the social and environmental conditions in the communities where it operates. Companies that engage in CSR activities aim to make a positive impact on society, while simultaneously contributing to their own sustainability and growth.

Measuring the impact of CSR is crucial to ensure that these initiatives are having a meaningful effect on the communities they are intended to benefit. This is where CSR Impact Assessment comes into play. CSR Impact Assessment is a process that



CSR impact assessment of 20 bedded radiotherapy unit dedicated to terminally ill cancer patients in Madhya Pradesh.

enables companies to evaluate the effectiveness of their CSR initiatives and identify areas for improvement. It involves the collection and analysis of data to determine the social, environmental, and economic impacts of a company's CSR initiatives.

The benefits of CSR Impact Assessment are manifold. Firstly, it helps companies to identify and prioritize their CSR initiatives. By evaluating the impact of their existing CSR programs, companies can determine which initiatives are having the greatest impact and allocate resources accordingly. This will ensure that the company's CSR efforts are meeting the desired socio-economic objectives.

Secondly, CSR Impact Assessment enables to measure the effectiveness of CSR initiatives. By collecting and analyzing data, companies can determine whether their CSR initiatives are achieving their intended goals. This allows them to refine their CSR programs, ensuring that they are having a positive impact on society.

Thirdly, CSR Impact Assessment helps companies to communicate their CSR efforts to stakeholders effectively. By presenting data and evidence of the impact of their CSR initiatives, companies can demonstrate their commitment to social responsibility. This can help to enhance their reputation and build trust with stakeholders, including customers, investors, etc.

The Ministry of Corporate Affairs has mandated that companies meet certain CSR requirements. Companies with a net worth of Rs. 500 crore or more, or a turnover of Rs. 1000 crore or more, or a net profit of Rs. 5 crore or more, are required to spend atleast 2% of their average net profits from the previous three years on CSR activities. According to a report by the Ministry of Corporate Affairs, in 2020-21, 4,796 companies spent Rs. 13,327 crores on CSR activities.

Monitoring and Evaluation (M&E) has increasingly become an integral part of CSR Impact Assessment now, which helps companies to periodically measure the progress and effectiveness of their CSR initiatives. M&E ensures accountability, evidence-based decision-making, learning and improvement, alignment with corporate goals, and continuous improvement of CSR programs. It provides companies with the data and evidence needed to make informed decisions, allocate resources effectively, and achieve their goals while contributing to sustainable development in the communities they operate. By using M&E to continuously improve their ongoing CSR



CSR impact assessment of an innovative mobile school for imparting education to deprived children in Haryana.

programs, companies can demonstrate their commitment to social responsibility, enhance their reputation, and build trust with stakeholders.

In conclusion, CSR Impact Assessment is a crucial tool for companies to measure the effectiveness of their CSR initiatives and make informed decisions about their social responsibility efforts. This will help the companies to identify areas for improvement, measure progress, and communicate the impact of their CSR programs to stakeholders. With CSR becoming an increasingly important aspect of Corporate Governance, companies that embrace CSR

Impact Assessment and make it an integral part of their CSR strategy, with the support of consulting firms like GPCL Consulting Services Limited, a firm promoted by India Exim Bank in association with Public Sector Organizations like AFC Ltd., MECON Ltd., RITES Ltd., and WAPCOS Ltd., and reputed Private Sector Firms like RPG Group, Tata Consulting Engineers Limited, etc. GPCL offers a range of consulting services to help companies develop and implement effective CSR strategies and measure their impact in meeting their social responsibility goals and contributing to sustainable development.

Strategies adopted across Globe on Board Gender Diversity



Dr. Anindita Moitra
Chief General Manager
Indian Oil Corporation
Limited

Introduction

The famous author on leadership John C. Maxwell remarked “A leader is one who knows the way, goes the way, and shows the way”.

For Governance of Corporates, it is the Board of Directors who plays the leadership role showing the way to the companies and steering its performance in the competitive market. In recent past, Board Gender Diversity garnered point of attention across globe. It is accepted as one of the means for good governance. This article elaborates some of the key-developments that has taken and various strategies adopted across Globe for enhancing Gender Diversity in Board.

Background

Traditionally Boards were mostly homogeneous in terms of race, ethnicity, gender, class, status etc. It typically had unified collegial characteristic. This framework was accepted broadly as the effective way for a Corporate Board to operate. However, post 2002 the aspect of Corporate Governance

was given a fresh look after the world witnessed series of admissions of fraud at Enron, World Com, Waste Management and many more. This ignited debate and deliberations on good governance which eventually extended from within the Boardrooms or academic studies to diverse stakeholders and market players. With proactive initiatives and interventions from Global entities, Governments, Regulators and other bodies, increasing Board Gender Diversity thus became a global agenda. The agenda primarily focused on to improve Boardroom Gender Diversity as an avenue for good Corporate Governance. Leading global entities displayed their willingness to peruse the agenda by taking concrete measures to implement the concept so as to reap the benefit in letter and spirit.

Developments

Organization for Economic Cooperation and Development (OECD) is a significant world leading entity which collaborates on key global issues. Their activity reach extends to different levels starting from national it moves to regional levels and also goes to local plains of countries. Their report “2013

Council on Gender Equality in Education, Employment and Entrepreneurship” brought out that gender disparity and biases persisted across different arena. To address the same, OECD gave a clarion call to its member countries for taking steps with commitment to bring improvement into their system. Their recommendation included enhancement of Gender Diversity on Boards and in senior management of listed companies. Besides this, various other measures like setting voluntary targets, spelling out disclosure requirements on diversity etc. were also considered as credible means to enhance diversity. Such initiatives were proposed to be extended to other broader quarters so that it would serve as an encouragement to enhance representation of women in private companies also.

The aforementioned recommendation of OECD was a strong signal to increase the representation of women on the Boards. The same sentiment was echoed in 2011 in resolution by European Parliament. They proposed for achieving critical threshold of 30% female membership of management bodies by 2015 and subsequently get enhanced to 40%

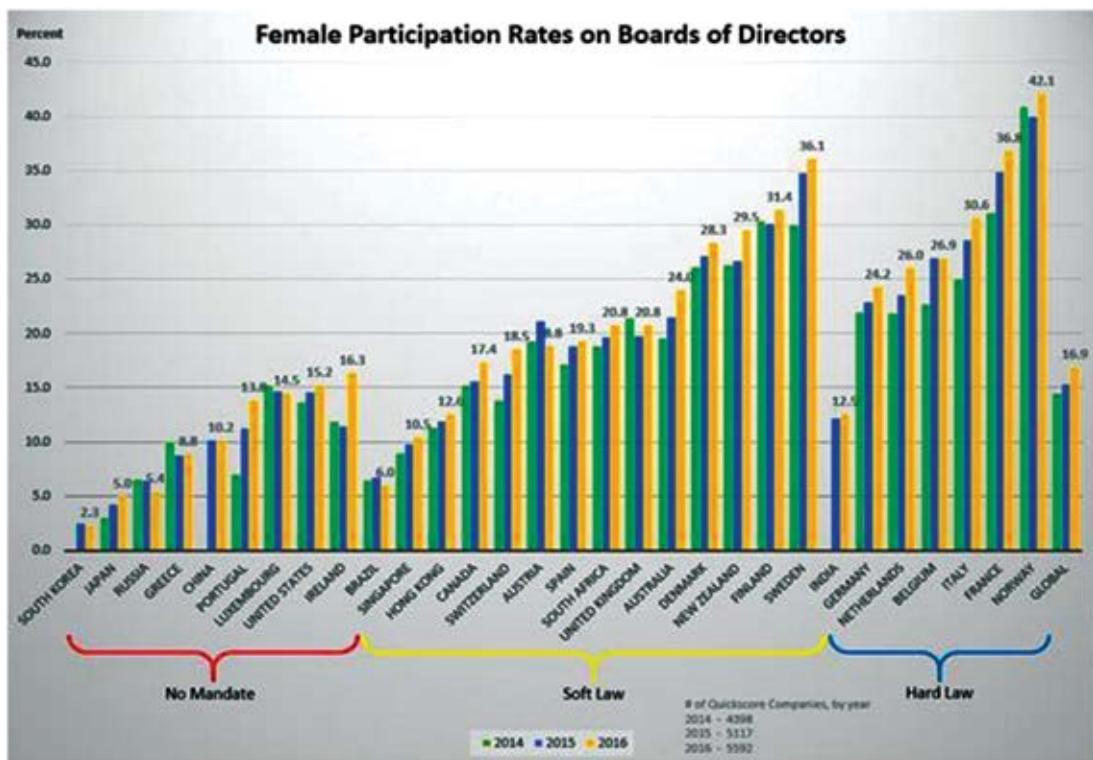


Figure- 1

by 2020. It was opined that such measures were expected to have sustainable impact on Board performance. In similar time period, benchmarking of diversity practices report of European Commission was submitted to the European Parliament and the Council in 2016. It acknowledged that there were weaknesses in governance of institutions which had caused abnormalities and frauds; one among them was lack of prudence in risk taking behaviour. It was recognized that alternate views, critical thinking, active monitoring of corporate affairs etc. were significant aspects of governance which got impaired with homogeneous boards. Hence, Gender Diverse Board were increasingly considered as a business imperative.

Strategies

Various aspects of Gender

Diverse Boards were debated and tabled across in diverse forums. In case a country opted for voluntary or non-binding option, they may or may not meet the target proposed. On the contrary, a prescriptive binding option could be expected to deliver more effective vehicle for meeting target. On the hindsight the approach had the potential to be perceived to be coercive practice. Also, such forceful option would necessitate more administrative involvement which would entail a cost for implementation. However, successful implementation could bring positive impact in socio-economic domain as well as in good governance of corporates. Nonetheless, countries were to make their individual choices to peruse the gender diversity mandate. Different views persisted across the different parts of the world and many countries

started adopting strategies to enhance Board Gender Diversity of their corporates.

Figure-1 shows the strategies adopted by countries vis-à-vis their progress from 2014 to 2016. The figure is sourced from "Gender Parity on Boards Around the World" by Institutional Shareholder Services, Inc. Enforcement of mandatory regulation with or without punitive actions are termed as "Hard strategy". Norway, France, Germany and many other countries opted the same and found progress. Strategy of adopting voluntary action for compliance are termed as "Soft strategy" which was taken up by UK with 25% target. Asia pacific nations also had taken up different pathways. Malaysia announced policy of 30% of women in Board of large companies. Singapore made diversity as integral part of governance

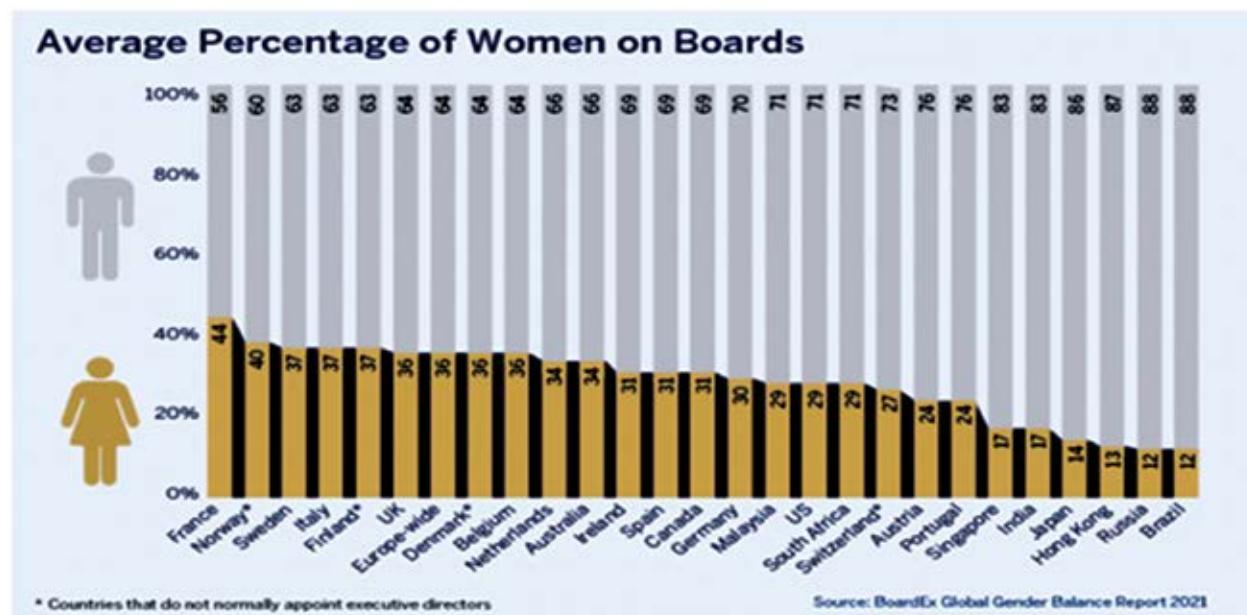


Figure-2

for listed company in Singapore Stock Exchange in 2012. From figure-1 it can be observed that countries with no mandate had less progress as compared to those who had chosen to specify their desired targets with a defined strategy.

The outcome

To get a view on the progress made Average percentage of women on Boards of various countries were published in 'Global Gender Balance Report 2021 by BoardEx (USA) a global data company and is presented in Figure-2.

In US national advocacy group had set a goal in 2010 and aimed to increase percentage of women on U.S. company boards to 20% by the year 2020. In 2017, 2.6% boards had no women directors. In 2018, California first introduced quotas for Women Directors in publicly traded companies. US did not have any regulatory mandated intervention to improve women representation on board. In 2020, about 26.5%

of Board Directors were women in Fortune 500 companies. Improvement was seen in 2021 when the average became 29% as indicated in Figure -2. The case of US indicates that the corporates had passive way of dealing Board Gender Diversity through voluntary participation. The path chosen by US was not prescriptive binding. However, persisted long drawn effort was essential for them to find some improvement. With the multipronged initiatives from institutions like World Bank, UN, Institutional investors etc., the world witnessed for the first time in 2021 that all S&P 500 companies had at least one-woman Director.

As can be seen in Figure-2, Europe acquired the leadership position with France as the leading country with 44% female participation in Board. In Europe, Norway had proposed gender quota legislation for company boards in 1999 and introduced atleast 40% "quota" for Women Directors. After witnessing the progress in Norwegian companies regarding

Board Gender Diversity, there was snow ball effect amongst other European countries to follow suit. Fourteen countries established quotas, and seventeen countries instituted voluntary codes for female representation on Boards. Some of the countries witnessed significant enhancement. From 2016 to 2017, in one year the progress in Norway was from 39.4% to 42.2%, in France 37.6% to 40.8%, and Sweden increased from 35.6% to 37.7%. Most recently in 2021, Germany stretched their emphasis and adopted for atleast one woman on their management Boards. It had introduced 30% quota for Supervisory Boards introduced in 2015 for publicly listed companies.

United Kingdom had not opted for a legal mandate. It had adopted a pursuance route which had less impact in enhancing Board diversity. In 2004, women in corporate Boards of Financial Times Stock Exchange (FTSE) 100 companies were 9.4% which increased to about 12.5% in 2011.

UK Government acknowledged the slow rate of progress. To find the appropriate route to be taken, Lord Davies of Abersoch led the initiative on behalf of the government. The elaborate activities included examining obstacles for women from reaching senior positions in business. They concluded that FTSE listed company Boards were to be given a target to meet 25% women Directors. As a voluntary, inclusive and persuasive measure the report gets published every year indicating their progress made. This strategy also found acceptance in many quarters.

Participation of corporates were the key to progress and further development. Following case can be underlined as a testimony on contributions of Corporate to follow. Royal Bank of Scotland (RBC) took up a considered approach and had set target of 30% in 2013 for senior women in top C roles by 2020. They considered 30% as tipping point where female contributions could influence teams enough to change behavior and culture in an organization. In 18 months, senior roles proportion of women increased from 32% to 41%. Philip Hampton, Chairman of Royal Bank of Scotland had opined that "Improving gender balance in the Boardroom not only increases the performance of the Board and strengthens the business but is also good for the UK economy, as it enhances our competitiveness, ability to attract talent and reputation for good governance in a global market."

In the preceding discussion, varied avenues adopted by different countries in Europe and US was presented. However, significant strides were taken by Australia too. In 2010, the matured market

in Australia chose a participative pathway to improve upon female participation in Boards. Australia Securities Exchange (ASX) Corporate Governance Council (CGC) required corporates to set their own targets as a measurable objective to enhance gender diversity at different levels and have diversity policy in accordance to it. In case the entities fail to achieve they need to explain "why not". This "if not, why not?" approach with annual assessment helped the country to progress with corporate participation. It helped in developing communication of diversity goals to stakeholders, market as well as within their organisations. Percentage of women on ASX 200 boards increased from 8.3% in 2009 to 29.7% in 2019. Thus, the initiative of regular annual disclosure with transparency was found to bring success in the country's progress on the aspect.

Development in India

India also responded to the agenda and Global Developments through various initiatives in continuum. With the objective of improving standards concerning Corporate Governance of listed companies, Kotak Committee on Corporate Governance was constituted by SEBI. On composition and Board Diversity, Committee report of 2017 enlightened that Board of listed entity has to perform additional functions and obligations as compared to unlisted entities. Committee recommended that every listed company to have atleast one independent Woman Director on the Board of Directors. This was subsequently accepted by SEBI. Board of listed company need to have sufficient

number of Directors with diverse backgrounds and skill sets available to ensure that it is able to carry out its functions effectively. Studies on India indicated that percentage of women to total Director position was abysmally low. From 1995 to 2007 it increased from 1.66% to only 3.63%. However, five years data on representation women in Board of BSE 100 listed companies, found that percent women in Boards sharply increased due to the regulation of having one Woman Director by 2015. With a figure of 7.1% in 2012-13, 11.6% in 2014-15, 13.5% in 2015-16 and 13.6% in 2016-17 there was gradual increase seen in India. The sharp increase post 2015 and marginal variation beyond the target of 2015 clearly reflected the impact of the strategic regulation and other binding strategies being implemented.

Conclusion

Discussion presented above elucidated various strategies adopted across the world and impacts made by such initiatives. Today, enhancing Gender Diversity of Board as a measure of good governance is an agenda acknowledged, accepted across the Globe. Diversity policies are increasingly being encouraged to be implemented thus emphasizing the need to address transparency, independent opinions, constructive discussion, avoidance of 'groupthink' phenomenon and many such aspects of Good Governance. India has also set its path in the direction with transparent strategy with specific mandate. As Corporate Governance is an emerging domain, the impact of various strategies on Corporate Governance will also reveal itself in days to come.

Massage Therapy – A Healing Touch



Dr. H. K. Chopra*

"The wisdom of thousands of years of mystical experience is walking hand in hand with the emerging knowledge of our science"

Fred Alan Wolf

Touch is tool of communication between living organisms and environment. With the most effective modality of communication among the various forms of communication like sound, vision, taste and smell. If we consider the term "contact" instead of touch it is possible to identify that all forms of communication are transferred through contacts to the target organs. Some of the examples of cellular contact are intercellular contacts, neuromuscular contacts, neuroharmonal contacts etc.

The Touch Receptors are available in the whole body, which makes it the best way of communication. A touch is to convey the message of

anger or love in a totally different manner such as pinching of skin or slapping someone is a touch of anger or rage and touch of shaking hands, hugging, embarrassing, petting, kissing, massaging are examples of pleasurable and lovable touch. The presence of different nerve tract in the sensory pathway of spinal cord for contact, pressure and vibration confirms the tripod structure of touch. This tripod structure of the discriminative touch is successfully and positively manipulated for development of desire effects. The Positive manipulation is applied in the traditional massage system in different modalities of physical manipulation like stroking, pressing, rubbing and squeezing. Qualitative analysis reveals that three types of touch have been employed in massage. These types of touch are 1. The touch of contraction – are greater in pressure positioning and stimulation on deeper structures 2. The touch of stimulation – reduction in pressure producing stimulative effects on superficial structures 3. The touch of relaxation – optimum in pressure produce

soothing and comforting influence. In Ayurveda, these quantitative and qualitative analysis have been viewed as:

Touch of Tamas – greater in pressure, reduce kapha dosha.

Touch of Rajas – reduce in pressure stimulate Vata dosha.

Touch of Satwa – optimum pressure and producing balance of doshas.

The sense of touch can also evoke profound emotional and psychological healing responses. The skin, after all is the largest organ in the body, and is rich with nerves never receptors neurochemicals and immune modulators. Possibly skin is derived from the same development as the nervous system, the skin contains same neuropeptides as cerebral cortex.

Vasoactive Intestinal Peptide (VIP) is the chemical, which was first, identified in the mucous membranes of the intestine. The high concentrations of VIP are also found in the skin, which can be released by therapeutic touching such as massage therapy. Blood levels of VIP are elevated

* 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.

up to a period of three weeks after massage therapy. It has been also documented in various studies that VIP is a coronary vasodilator, opening collateral vessels of the heart, thus enhancing natural bypass. It has been reported in one of the studies by Positron Emission Tomography (PET) scan that there was a 15% increase in coronary blood flow after in Ayurvedic massage. It has direct correlation with the increase in circulation VIP. The skin also contains peptides, which are related to antidepressants, massage enhance the liberation of these natural antidepressants (Natural Opiates – endorphins), which is mood elevator. Growth factors and growth hormones are also released so that premature babies who receive massage gain weight much faster than others.

In addition to the direct benefits of massage, the herbalized oils, which often used can provide added benefits. The skin absorbs these oils, which are free-radical scavengers and have antioxidant properties. They help in protecting our body from harmful chemical or toxins.

Ayurvedic Oil Massage (Abhyanga)

An oil massage is one the most enjoyable elements of the Ayurvedic daily routine. It benefits the nervous system and endocrine system, enhances circulation, improves muscle tone, and stimulates many other beneficial effects throughout the mind body system. Ayurvedic massage can be very gentle or more vigorous in order to reach deep tissue. The kind of massage and oil used should be chosen according to your dosha. For Vata type massage

should be relatively gentle, using heavy and warm oil such sesame (Til ka Tel) or almond oil (Badam ka Tel), Pitta types benefits from deeper massages and cooling oils such as coconut (Khopre ka Tel) and olive oil. Kaphas type do best with stimulating, vigorous massage with light oils such as safflower, sunflower (Surajmukhi oil) or mustard (Sarso ka Tel), a dry massage using herbal powder is also beneficial for Kaphas types. It enhance circulation and has invigorating effect.

Preparation for Massage

Before the oil is used for massage it should be cured ones by slow and careful heating in a glass or metal pot. Put a few drops of water in the oil and remove the pot from the heat as soon as the water starts boiling. The oil must be washed careful while heating to prevent the fire. Full body massage (10 minutes) Pour a tablespoon of warm oil on scalp. Using mainly the flat of the hand massage the head with oil vigorously covered the entire scalp with small circular stokes, as if shampooing. Then move on the face and ears massage them gently. Gentle massage of the temples and back of the ears is especially good for settling Vatta Dosha. Then used the oil on the neck front back and then shoulders for massage with fingers and flat of the hand. The vigorously massage the arms is use circular motion at the shoulders and elbow and long back and forth motion on the upper arms and forearms. We must avoid vigorous massage on trunk. Using gentle circular motion over the chest and abdomen. A straight up and down motion should be used over breastbone. Then apply oil at the back

and spine for massage using up and down motion. Similarly massage over the knee joint and ankles with circular motion and straight back and forth on thy and legs. Then proceed for a vigorous massage of the feet.

Mini Massage (2 minutes)

When there is no time for full body Abhyanga, a short massage is still much better than one at all. The head and feet are the most important parts of the body to cover this can be accomplished in a very short time. The mini massage requires only two tablespoons of oil. Rub one-tablespoon warm oil into the scalp, using the small circular motions. Massage the forehead from side to side with palm. Gently massage the temples, using circular motion and then gently rub the outside of the ears. Massage the back and front of the neck. Then vigorously massage the soles of the feet with brisk forth motions of the palms. Sit quietly for few seconds to relax and soak the oil and then bath as usual.

Massage with therapeutic potential

The best way of massage is the physical manipulation, which is specific discriminative touch, applied to a specific area, which produces the sensation of touch, pressure, vibration and the rhythmic stimulation. The touch is best way of body communication which provide the stimulation of bodies activities and promote the process of healing. It is also used as a symbol of love, affection, encouragement and various emotions, which provide physical and mental comfort and relaxation. Various medicated

oils used to provide boost to the psychological, biochemical and immunological mechanisms in our system. Traditional therapeutic massages used for different therapeutic purposes in Kerala are Kalari cikitsa, Marma cikitsa and Thriummu cikitsa. Longevity of people in Kerela is because of regular oil massage in there daily routine as described in Ayurveda. Ayurveda also proposes daily application medicated oil coupled with massage for maintenance of health. It also says that oleation therapy must be performed as daily practice. Various traditional massage therapies are:

Kachha thirummu – for body strength flexibility and vitality.

Raksa thirummu – for treatment of muscle degeneration, post fracture management, muscle cramp etc.

Sukha thirummu – for maintenance and promotion of health.

Requirements of Masseur or the giver

A masseur should posses better understanding of anatomical and physiological aspects of human body specially the vital points or marma.

The masseur should be perfectly trained and posses high level of positive energy through the integration of body mind and soul.

As massage is the procedure for exchange of positive energy from the masseur or giver to the receiver. It facilitates free flow of prana (life energy) through the body channels. These body channels are blood vessels, lymphatic channels, nerves and neuro-hormonal networks and it associated energy potentials.

The masseur should have psychosomatic purity, coupled with an attitude of healing touch.

A masseur should always the affectionate, lovable, dedicated and caring. He or She should win the confidence of the receiver.

The hands and feet of the masseur should be flexible, soft, smooth, plain and strong enough to induce pressure during physical manipulation.

Requirements of the Receiver

The one who receives massage should obedient and have confidence in the masseur

The receiver should have a positive attitude and should have attitude of relaxation to receive the beneficial effects brought through physical manipulation and energy transfer.

Requirements of a Massage Table

The size of the massage table should be convenient enough for the receiver to lie in a relaxed position. The length of the table should be 3 meters, breadth 0.75 meters and thickness 15 centimeters. The height of the table should be adjustable. So that needed posture of the receiver can be obtained.

The massage table should be made up of wood, which should be against Vata dosha and with highly thickened fibrous structure, which can prevent absorption of oil. The recommended wood is Strychnos nuxvomica.

The massage table should be fixed in east west direction.

Timings of the Massage

The best time to have massage

as before the environment is hot. Rainy and cold seasons are ideal for taking massage.

The Environment of Massage Room

The place of massage should be free from noise, dust, smoke, and various polluting agents. It should be with natural serenity.

Privacy both for man and woman should be maintained.

Private bathrooms for man and woman should be provided.

Primordial sound – natural sounds should be in the environment as they have soothing influence on our system.

The following medicine and trees should be in the surroundings. in Eastern Side– Ficus religiosa and Mimusops elengi, in Southern side– Ficus racemosa and Tamarindus indica, Western side– Ficus benghalensis and Alstonia scholaris, Northern side– Ficus tinctoria. and Mesua ferea. The other medicinal trees, which can be planted in surroundings, are: Butea Monosperma. Pterocarpus marsupium. Saraca asoca. Terminalia chebula. Aegle marmelos. Santalum album. Michelia Champaca. Erythroxylum-monogynum. Emblica officinalis. Gmelina arborea. Acacia catechu. Calophyllum apetalum.

Oil application on head

It is the application of medicated oil on the head, an area which extends from bregma to lamda specifically over the superior sagittal sinus. This is done by placing a folded piece of cloth dipped in medicated oil. Medicated oil

should also be applied in the mastoid part (behind the ear), inside the ear and the inner surface of the palms and feet. The same oil should be used for massaging the face and head. The medicated oils generally used are Ksirabala oil or Dhanvantaram oil.

Covering the head with medicated paste

Massage, being a heat generating process, it is necessary to protect the vital organs, especially the brain from excessive heat. For this, a medicated paste is applied to the head in a moderate thickness except at the center. The paste is made up of the following medicinal herbs, boiled and crushed in buttermilk and mixed with rasnadi churnam. Gooseberry (*Emblica officinalis*) – 250 grams, Vetiver *Zizanoides* – 10 grams, Piper bettle – 10 grams, Cynodon dactylon – 10 grams, Butter milk – 500 ml, Rasnadi churnam – 25 grams.

The use of medicated oils

Generally medicated oils are used for massage. The oils are selected on the basis of the receiver's body constitution or prakrti, the age of the person, dosha dominance such as vata, pitta and kapha and disease condition. The beneficial effects of massage will depend upon the qualities of oil and the medicinal herbs, which are used for medicating the oil. The qualities of oil are: Snigdha (unctuousness) The snigdha quality is due to AP and prithvi bhutas. Guru (heaviness) The guru quality is due to prithvi and AP bhutas. Sita (coldness) The cause of Sita quality is AP and vayu bhutas. Mrdu (softness) The mrdu quality is due to AP and akasa bhutas Drava

(fluidity) Drava contains the dominance of AP bhuta. Picchila (stickiness) Stickiness is the quality of AP bhuta. Sara (mobility) Vayu bhuta is the cause of Sara. Manda (stillness) AP and prithvi bhutas are the cause of manda. Suksma (subtle) Agni bhuta is the cause of suksma.

The above qualities are effective against vata and kapha dominance. In therapeutic use, the rational combination of medicinal herbs will determine its effectiveness. The qualities and effects can be improved through pharmaceutical processing with medicinal herbs according to the therapeutic need. Ayurveda provides a large number of medicated oil preparations for therapeutic application. Generally coconut oil and gingerly oil are used for pharmaceutical processing. The common medicated oils used for massage are Kottamchukkadi kuzhampu, Dhanvantaram kuzhampu and tailam, Karppasastyadi kuzhampu and tailam, Sahacardi kuzhampu and tailam, Balagulucydi tailam and keram, Pinda tailam, Masa tailam, Narayana tailam, Ksirabal tailam, Njarampenna, Murivenna, Gingily oil with rock salt. For providing a pleasant smell to medicated oils, two or three drops of the various aromatic oils are used. a) Vetiver oil b) Sandal wood oil c) Cinnamomum oil d) Clove oil e) Cardamomum oil.

Sandalwood in aromatherapy is analgesic, antidepressant, anti-inflammatory, antiseptic (urinary and pulmonary), antispasmodic, aphrodisiac, astringent, carminative, cicatrisant, diuretic, expectorant, sedative and tonic.

For the mind and spirit

Sandalwood has a calming effect and is useful for the stresses of a busy life as it helps to reduce tension, nervous depression, anxiety, stress and confusion. Being quite a heavy oil, it is more sedative than uplifting, and is useful for treating insomnia, particularly where this is caused by worry. It is thought to have ability to ground us and connect us with the earth, to still the mind and allow our creativity and higher consciousness to flower. It has long been considered an important meditation aid as it calms the mind, stills 'mental chatter' and aids in the opening of the Third Eye. Sandalwood also opens us up emotionally and helps us to accept others. It is widely known to be an excellent aphrodisiac, although it can also be used to help transmute sexual energy for those who are practicing celibacy.

For the body

Physically too, sandalwood is recognised as having a pronounced effect on the genito-urinary tract and is therefore useful in treating urinary tract infections, including cystitis and gonorrhoea. It is a good pulmonary antiseptic and is very effective for coughs, particularly dry persistent ones, and for chronic bronchitis and sore throats. Sandalwood is also considered a digestive aid as it relieves intestinal spasm and inflammation, and can be useful in treating diarrhoea, Irritable Bowel Syndrome and colic.

For the skin

Robert Tisserand describes sandalum album as "one of the most useful oils for the skin." It

is excellent for dehydrated skin and relieves itching, inflammation and burning sensation. As a mild astringent, it can be used for oily skin conditions. Sandalwood is used extensively in high-class perfumeries, as it is an excellent base and fixative for other perfumes. By itself, it has a deep yet mild, long-lasting sweet aroma, but the perfume industry finds that it can blend well with other perfumes and does not impart its fragrance when used as a base.

Sandalwood can also be used to prepare and facilitate healing and visualization. The yogis describe sandalwood oil as the fragrance of the 'subtle body', the centre of highest insight and enlightenment. The oil has an affinity with the Base Chakra and also works at the level of the Crown Chakra in facilitating spiritual development. It links these two Chakras, reminds us that Chakra energy forms a circuit and helps us to understand the unit of mind and body. Like the oils of jasmine and rose, sandalwood too connects the Sacral, Heart and Crown Chakras, symbolizing the spiritual dimension of sexuality.

Rest and Dietary Control

Rest and dietary control are very important and an integral part of the traditional massage.

Rest and dietary control during massage for the prescribed massage for the prescribed period, boosts the effectiveness of the massage and makes them sustainable. The period for rest and dietary control is fixed as three times, the sequence of the massage. In a seven day sequence, the period of rest and dietary control is 21 days. In a fourteen day sequence, it is 42 days. In a twenty

one day sequence, it is 63 days while in a twenty eight day sequence, it is 84 days. The rest envisages the complete relief from physical and mental stress and strain. The following directives are necessarily to be observed by the receiver:

- a) The receiver should not expose himself to direct sunlight.
 - b) Not look directly at the sun and should take precaution to protect the eye from stress and strain.
 - c) Not expose himself to loud sound.
 - d) Not expose himself to too cold and too hot atmosphere.
 - e) Not expose himself to irritant and unpleasant smell.
 - f) Eat food with moderate taste and at regular intervals.
 - g) Drink hot water boiled with dry ginger or corriander or tulsi leaves.
 - h) Take light, easily digestible liquid food.
 - i) Not talk read or writes excessively.
 - j) Avoid all types of physical work.
 - k) Abstain from sexual act.
 - l) Not expose himself to wind, mist, dust, smoke, heat and rain.
 - m) Take sleep at the regular time.
 - n) Not get worried.
 - o) Not get over excited.
 - p) Not prevent or induce the natural urges.
 - q) Not take food, which produces acidity and flatulence.
 - r) Take bath only in lukewarm water boiled with Embilican officinalis (gooseberry).
 - s) Always keep physical and mental enlightenment.
 - t) Take self massage before bath, using medicated oil.
 - u) Use cold water boiled with Embilical officinalis (gooseberry) for washing head and face.
 - v) Wear loose clothing's.
 - w) Not exert stress and strain to the senses.
 - x) Not take any type of vigours exercise.
 - y) Not extensively travel in vehicles.
 - z) Preferably avoid sleep during daytime. Diet should be light, easily digestible, tasty, nourishing, satisfying and liquid in nature.
- The diet should contain fruits, leafy vegetables and cereals and should be properly cooked. Non-vegetarian food is not advisable. Fruit juices are advisable. Medicated gruel (marunna kanji), and rasayanas (rejuvenation therapy) are essential parts of the dietary instructions.

Seventy (70) Potential Benefits of Massage Therapy

The potential health benefits of massage are beneficial for everyone, young or old, boy or girl, man and women. The health benefits of Massage therapy are as follows:

- 1) Healthy Heart: Prevents, regresses and reverses coronary artery diseases thereby enhancing healthy heart by improving coronary circulation, channelising collaterals, reducing tendency of blood clotting, preventing hardening of the coronary arteries.
- 2) Control Blood Pressures: Reducing blood pressure by reducing peripheral vascular resistance by improving peripheral vascular flow.
- 3) Reduce Bad Cholesterol: Reducing bad cholesterol such as

triglycerides, low density lipoproteins, total cholesterol etc. and increase good cholesterol such as high density lipoproteins.

4) Improves microcirculations: Improves microcirculations thereby preventing, reversing and regressing microangiopathies.

5) Prevent Hardening of Arteries: Prevents and regresses atherosclerosis.

6) Reduce Heart Rate: Thereby controlling palpitation by soothing influence on autonomic nervous system.

7) Heart Protective: Improves threshold for angina, prevent heart attack.

8) Mood Elevator: Enhance feeling of well-being and energizing oneself.

9) Enhance Self Confidence: Improving self esteem.

10) Improves stamina.

11) Improves effort tolerance.

12) Improves digestion.

13) Improves appetite.

14) Muscle Protective: Improves muscle tone and muscle strength.

15) Neuromuscular Protective: Improves neuromuscular coordination.

16) Prevent muscular atrophy.

17) Reduce muscle fatigue.

18) Refine muscle contraction.

19) Increase strength of muscle fiber.

20) Cures muscle stiffness.

21) Prevent muscle soreness.

22) Joint Protective: Improves joint stiffness, makes joints more flexible, improves synovial fluid secretion.

23) Bone Protective: Improves bone density, makes bones

stronger especially in post menopausal women.

24) Sleep Protective: Enhance perfect sleep.

25) Metabolism Protective: Improves metabolism.

26) Improves temperature regulation.

27) Improves skin texture.

28) Improves hair texture.

29) Improves elasticity of ligaments.

30) Improves mobility of joints.

31) Improves vigour.

31) Improves psyche.

32) Rejuvenating.

33) Prevents retards and reverse ageing.

34) Enhance self confidence and positive attitude.

35) Enhance hydration of skin.

36) Improves peripheral vascular circulation.

37) Improves both micro and macro circulation in whole body.

38) Increases venous return.

39) Improves cardiac output.

40) Increases lymphatic drainage.

41) Improves immuno modulation.

42) Enhance neuro hormonal transmission.

43) Improves sensory perception

44) Reduce pain.

45) Improves glandular secretions.

46) Improves blood circulation to target organs.

47) Improves oxygen concentration in blood.

48) Improves flexibility of organs.

49) Improves muscles elasticity

50) Enhance positive

psycho-somatic influence.

51) Provides colour, radiant and luster to the skin.

52) Maintain oil content of the skin.

53) Promote vitamin D synthesis.

54) Promotes reduction of subcutaneous fat.

55) Prevents premature keratinization.

56) Promotes body resistance.

57) Reduce joint stiffness.

58) Reduce muscles stiffness.

59) Promotes stability in the body.

60) Helps regulation biological rhythm in the body.

61) Prevent wrinkling of skin.

62) Promote feeling of well-being.

63) Eliminates excessive kapha, dosha.

64) It helps in balancing doshas such kapha, pitta and vata.

65) Massage is tranquilizer, energizer, equalizer, stabilizer, equipoiser and happinessiser.

66) Enhance beautification.

67) Ceremonial massage for bride and groom is for vigour and vitality.

68) Massage for new born babies is to enhance total fitness and development.

69) Massage enhances strength and restores vitality during pregnancy and postpartum period.

70) It enhances and improves endothelial function.

The oleation therapy (Abhyanga) prevent the process of ageing, improves body resistance, provide physical and mental strength, eliminate tiredness and exhaustion, tones the muscle tissues, improves the bone densities, improves the texture of the skin.

The Power of augmented reality in Construction Industry



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The building business is the world's oldest, with innovation at its heart. The tools we employ to construct our built environment have advanced exponentially during the previous century.

Augmented Reality the next big thing in Construction Industry

The building business is the world's oldest, with innovation at its heart starting from ancient structural marvels like The Taj Mahal to modern structural marvels such as Burj Khalifa, (the world's tallest building). The tools we employ to construct our built environment have advanced exponentially during the previous century. Several technologies, including but not limited to Building Information Modeling (BIM), 3D printers, drones, and virtual reality, have been introduced into the construction industry over the previous decade. Augmented Reality (AR) is one technology that has generated a lot of interest due to its potential. AR is evolving as a vital tool in the architectural, engineering, and construction industries. AR is making waves in the construction

business because of the wide range of applications throughout a project's lifecycle. AR has its extensive history in the gaming sector, this technology is still relatively new in the building industry. Augmented Reality combines digital visual components, sound, and other sensory cues with advanced camera and sensor technology to produce an improved representation of the real world that can be viewed in real time.

Augmented Reality versus Virtual Reality

The terms Virtual Reality (VR) and Augmented Reality (AR) are commonly interchanged. AR and VR are two different interactive technologies, despite their similarities. In recent years, virtual reality (VR) has become the more well-known developing trend in a variety of industries, but it feels outdated in comparison to AR's uses and benefits. Unlike VR, which is purely a digital experience, AR combines the real and virtual worlds into a single immersive experience. AR projects 3D visuals onto a person's actual environment as they walk around a space using a smartphone or an AR headset. The AR technology can offer users with geographical information via GPS and cameras, providing relevant information as the user walks around the work site. Schedules, operational data, and drawings are all readily available, allowing users to make

choices on the fly while on the job. Not only can AR affect how stakeholders see specific activities, but it also has the potential to change how construction professionals perform their work which results in saving a lot of time, energy, and money.

Augmented Reality Applications in the Construction Industry

Because of its capacity to give real-time information, augmented reality is being used in the construction sector to improve efficiency, improve safety on building sites, optimise teamwork & collaboration, and manage time, money, and resources. Here are a few examples of AR's use in the construction industry:

1. Project Planning & Presentation

AR's role in building begins with the planning stage. AR allows multiple details and elements to be placed onto a building design to provide stakeholders a complete picture of the project. By merging augmented reality and BIM, architects and construction organizations may show functioning models to their clients. Through 2D models and virtual tours, clients may get a good sense of what a building will look like. As a result, clients can make decisions based on the present plan and give designers and

engineers time to make changes before construction starts.

AR Sketchwalk, an AR feature included in the Morpholio design software, can help Architects Bridge the gap between their design and reality. Designers can use the technology to provide clients and themselves a more accurate feel of the design and how it fits into the environment of a specific area using augmented reality.

2. Real-Time Project Information

Combining all digital information and documentation of a project with its physical location is one of the major benefits of using AR technology in construction. This technology can aid in the access and visualization of information such as the position, style, and kind of modifications to the building shell, ranging from architectural components such as windows and doors to MEP elements such as ducts and pipes. Engineers on the job can use this information retrieval technology to visualize facts in real time utilizing an AR headset or tablet. This allows them to keep track of the project's progress on-site in relation to the building plan and guarantee that everything is in working order.

A building's physical characteristics, such as height, width, and volume, can also be measured using augmented reality technology. Microsoft's Hololens AR headgear, for example, can measure a space's actual proportions, such as depth, height, and width. These data can then be included into 3D models, allowing for more precise viewing and construction measures. Accurate construction measurements will also assure project timeliness

and exact personnel and material requirements.

3. Team Collaboration

Construction is a highly collaborative industry, and strong coordination among all disciplines is essential to ensure that a project is completed on time and on budget. However, not every member of a project team will be present at all times. Fixing problems must wait until all parties concerned have collected, examined, and made any required changes to the plans.

Remote workers can inspect the job site as if they were there in person using Augmented Reality. AR enables real-time problem solving and error correction without requiring a team member to be physically present at the building. Workers can also utilise augmented reality to take notes, photographs, or videos of problems that can be viewed and commented on by remote teams.

AR streamlines cooperation between on-site and remote team members, allowing them to consult with one another in virtual environments, decreasing the time and money it takes for teams to resolve issues on-site.

The Wild is a software platform that blends AR and VR to allow team members to collaborate in this way. The Wild is compatible with desktop, mobile phones or tablets, and VR headsets, and supports Revit and BIM 360. It enables users to work on projects remotely by allowing multiple teams to access a virtual workspace that permits design reviews, markup development, and effective communication.

4. Modifying Projects

One of the significant innovations brought about by the application

of AR in construction is the ability to make adjustments to building models immediately on-site, in addition to viewing the building and its pieces on a site. Engineers can make virtual changes to a project using an AR headset or an AR-enabled mobile device with a digital overlay of the project, such as changing the arrangement of walls or other crucial components. This will allow them to see how those changes will be integrated into the building and how they might affect the rest of the structure while making no changes to the actual physical structure and causing the project to be delayed. In addition, the technology can uncover incompatibilities or instances in which a solution will result in a negative outcome.

Changes that have been approved are updated in real time, decreasing the possibility of personnel following plans that are no longer valid. Using AR in this way can help you avoid costly mistakes and minimize the need for considerable rework once the project is up and running.

5. Safety Training

In the construction industry, safety is paramount. Before engaging in activities on site including as operating heavy machinery, mounting multi-story scaffolds, or handling hazardous materials, all workers must undertake comprehensive training for their own safety as well as the protection of other workers and pedestrians. In the construction industry, safety is of the utmost importance. However, safety training is costly, time-consuming, and even dangerous if an unskilled person is in charge.

To address this issue, workers can be given virtual drills, training, and safety situations via AR

technology such as AR headsets. Workers can be trained in a safe atmosphere where no one gets wounded in this way. Workers can utilise AR headsets like Microsoft Hololens to practice operating complex heavy gear in a safe, virtual environment before needing to operate on the actual building site. Similarly, augmented reality can be used to instruct staff on how to manage hazardous items or circumstances without actually exposing them to it. By providing concise instruction and decreasing downtime training costs and delays, this training strategy improves their safety awareness.

Augmented Reality future in Construction Industry

Despite the fact that we have yet to see a large-scale implementation of AR technology in the construction field, given all of the benefits that AR technology provides throughout the lifecycle of a project, it has the potential to become an indispensable part of the industry in the near future, especially given the impact of the COVID-19 pandemic in the last two years, which has pushed construction firms to operate remotely and implement digicams.

Everyday, companies offering AR based services are looking for new ways to enhance. AR technology is being integrated into building software, and apps are becoming faster and more intuitive. The investment and use of AR technology in the construction industry will undoubtedly increase as the technology matures and becomes economically viable.

The construction business has been ranked as the least efficient industry by The Economist. The fact that it has yet to fully adapt to the digital world further adds to this ranking. However AR technology has played a significant role to address sustainability

concerns in construction projects. Construction is simplified because of augmented reality. Augmented reality images, rather than depending on architectural blueprints and manually recorded measurements, generate a precise replica of any physical space. Plan more efficiently to save time and effort, and use augmented reality to see many design choices without having to create anything. Construction companies could save money by assuring more precision and using virtual models to better plan new projects using augmented reality. Construction companies are using mobile technology, such as smartphones and tablets, to increase communication and expedite business procedures. Given its benefits and existing applications, embracing augmented reality sooner rather than later could be the next big thing in construction industry.

Limitations of Augmented Reality in Construction Industry

AR has various applications across the construction project life cycle, from the planning stage to the completion stage that ensure accuracy, avoid rework, reduce construction costs, and ensure project completion on schedule. As a result of this total efficiency and accuracy, construction firms will have more confidence in their projects, which will build client relationships and create long-term return on Investment (ROI). Despite all of these significant benefits, AR adoption in the construction industry is now quite low. What makes you think that?

The belief that augmented reality is an immature technology that can't be used effectively in practice is the main roadblock to its

adoption in the construction sector. In construction and engineering applications, extremely high levels of precision, consistency, and efficacy are essential. The incredibly complicated 3D information models utilised in building are beyond the capabilities of current AR devices. However, the simplest and most effective way to assess which capabilities need to be improved in order to improve the application of this technology in the construction and engineering sector is to use existing devices for construction applications. Because most construction companies are unfamiliar with augmented reality hardware and software, it's difficult to acquire advice on procurement strategies and compare the various systems. Furthermore, firms are hesitant to invest in the technology because the financial consequences and potential benefits are not readily available. A new application, such as augmented reality, has a steep learning curve that may deter businesses from investing.

Another factor limiting their acceptance is the architecture, engineering and construction (AEC) industry's reluctance to embrace digitization especially in a developing economy like India.

Comfort and safety are also major considerations for users who wear AR headsets for long periods of time. The equipment is regularly subjected to bad weather and functions best in a steady environment with a strong internet connection. These are all variables that aren't always present on building sites and would make using AR gadgets difficult.

The construction industry's readiness to undertake a digital transition, as well as the maturing of AR technology, will encourage further AR usage in the industry.

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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.

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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.



Minister of State, Ministry of Power & Ministry of Heavy Industries inaugurates RMC road works funded by NHPC

Shri Krishan Pal Gurjar, Minister of State, Ministry of Power & Ministry of Heavy Industries, Govt. of India inaugurated the RMC road works funded by NHPC. Shri R.K. Vishnoi, CMD, NHPC was also present on the occasion. The Minister expressed his gratitude to NHPC for extending their support for the RMC road works by NHPC. Speaking on the occasion, Shri R.K. Vishnoi, CMD, NHPC said that as an organization NHPC is always committed to contribute towards the welfare of people at large and is working towards nation building.

The road works are being carried out by Municipal Corporation of Faridabad from Omaxe Gurukul



Shri Krishan Pal Gurjar, Minister of State, Ministry of Power & Ministry of Heavy Industries, Govt. of India and Shri R.K. Vishnoi, CMD, NHPC during the inauguration of RMC road works funded by NHPC.

T Point to Mathura Road (Mall road in Greenfield area) and Mathura Road to NHPC Mini Chowk, Faridabad. NHPC has

committed to contribute Rs 4.89 crore towards this project for which MoU with MCF shall be signed shortly.

Raksha Rajya Mantri Lauds GSL for quality & timely delivery of ships

Raksha Rajya Mantri, Shri Ajay Bhatt visited Goa Shipyard Ltd. recently. During an hour long visit, a presentation was made to RRM on the growth trajectory of GSL, its in-house design capability, product profile and future potential.

Raksha Rajya Mantri was conducted around the shipyard by Shri B. K. Upadhyay, CMD, GSL and apprised of the ongoing series construction of Frigates being built for Indian Navy. RRM was also shown massive infrastructure augmentation undertaken for various future projects.



Shri Ajay Bhatt, Raksha Rajya Mantri; Shri B.K. Upadhyay, CMD, GSL along with other Senior officials from GSL during the visit.

RRM was briefed on the new product designs being developed by GSL. RRM appreciated GSL's ongoing projects. He also lauded GSL's efforts in upgradation of

the Shipyard to meet the future defence requirements coupled with quality and timely delivery of ships.

Delhi Metro launches India's first ever indigenously developed Signalling System (I-Ats), jointly developed with BEL for operations on its red line



India's first ever indigenously developed Train Control & Supervision System jointly developed by BEL and DMRC, i-ATS, being formally launched by Shri Manoj Joshi, Secretary, Ministry of Housing and Urban Affairs, Government of India & Chairman, Delhi Metro, in the presence of Shri Vikas Kumar, MD, Delhi Metro, Shri Bhanu Prakash Srivastava, CMD, BEL, Shri Manoj Jain, Director (R&D), BEL, and other senior officials of DMRC and BEL.

In a significant development in the field of rail based mass transit, the Delhi Metro launched India's first ever indigenously developed Train Control & Supervision System, jointly developed by Bharat Electronics Limited (BEL) & Delhi Metro Rail Corporation (DMRC), the i-ATS (Indigenous - Automatic Train Supervision) for operations on its first corridor, Red Line (Rithala to Shaheed Sthal).

The i-ATS system was formally launched on the Red Line from the Operations Control Centre (OCC), Shastri Park, by Shri Manoj Joshi, Secretary,

Ministry of Housing and Urban Affairs, Government of India & Chairman, Delhi Metro, in the presence of Shri Vikas Kumar, MD, Delhi Metro, Shri Bhanu Prakash Srivastava, CMD, BEL, Shri Manoj Jain, Director (R&D), BEL and other senior officials of DMRC and BEL.

This signalling system, entirely made locally, has been jointly developed by BEL and DMRC under the Government of India's 'Make in India' and 'AatmaNirbhar Bharat' initiatives for the Metro Rail Transit Systems. India has become the 6th country to join the elite list of a few nations in the

world which have their own ATS products.

Beginning with Red Line, the i-ATS System will further be deployed for operations on Delhi Metro's other operational corridors and the upcoming independent corridors of Phase – 4 Project as well. Preventive Maintenance modules shall also be introduced in the Phase 4 corridors using i-ATS. In addition, i-ATS can be used in operations of other rail based systems including Indian Railways. This technology has been developed with flexibility to work with different Signalling vendor's systems with suitable changes.

Chief of Material, Indian Navy visits HSL

Vice Admiral Sandeep Naithani AVSM, VSM, the Chief of Material (COM), Indian Navy visited HSL to review the progress of refit works on EKM Submarine.

Cmde Hemant Khatri, IN (Retd.), CMD, HSL highlighted that the refit works on Submarine are progressing at a brisk pace and the yard is confident to complete the refit of Submarine on time. He also expressed that HSL is hopeful to get more orders from the Indian Navy for the EKM Submarines based on the capabilities developed and performance in ongoing Submarine refit.

During the visit, COM, IN appreciated the progress made by



Vice Admiral Sandeep Naithani AVSM, VSM, the Chief of Material (COM), Indian Navy; Cmde Hemant Khatri, IN (Retd.), CMD, HSL and other officials of HSL during the visit.

HSL in all domains in the past few years. He also applauded the repair work progressing on the EKM Submarine at HSL.

Independent Directors of NBCC interact with Amrapali employees

Independent Directors of NBCC, Shri Asim Misra and Shri Rajeev Kumar interacted with NBCC employees posted

at Amrapali Project. During the interaction they stressed on the issues related to project and employee motivation.

They also took stock of the project execution and complemented the team for working tirelessly.



Shri Asim Misra and Shri Rajeev Kumar Independent Directors of NBCC and NBCC employees posted at Amrapali Project during the interaction.

NTPC commissions India's first Air cooled condenser at North Karanpura Super Critical plant in Jharkhand



NTPC commissions India's first Air cooled condenser installed Super Critical plant to demonstrate its Commitment towards water conservation through reduce, reuse and recycle.

NTPC has started commercial operation of 1st Unit of 660 MW at North Karanpura (3*660 MW), in Jharkhand.

This project has been envisaged with Air Cooled Condenser (ACC) which has almost 1/3rd water footprint as compared to a conventional Water Cooled Condenser (WCC). This would result in water saving of around 30.5 mcm annually thus fulfilling the needs of around 1.5

million people in the region annually.

NTPC has already taken a series of measures across its plant locations on sound water management. NTPC will further imbibe the 3 R's (reduce, reuse, recycle) for water conservation and management while carrying out its core business activity of power generation. NTPC Ltd., is a signatory to the UN Global Compact's CEO Water Mandate.

NTPC is committed to proactively address water sustainability issues through implementing Water Policy, which will serve as a directive for establishing water management strategies, systems,

processes, practices and research initiatives.

The North Karanpura plant will have a total capacity of 1980 MW, 3 Units of 660 MW each. This plant is based on one of the Most efficient Supercritical Technology and being a pit head plant (10 Km from coal source) will supply economical power to the states of Jharkhand, Bihar, West Bengal, and Odisha.

NTPC has been at the forefront in leveraging technology and have pioneered adoption of new technologies in the power sector. NTPC is currently meeting 24% of the country's demand through coal, gas, hydro, solar and wind plants.

PSEs Ink MoU

BEL, GSL signs MoU to address global market opportunities for Naval platforms



Shri Bhanu Prakash Srivastava, CMD, BEL and Shri Brajesh Kumar Upadhyay, CMD, GSL, exchange the MoU documents signed between BEL and GSL at Aero India in the presence of Shri Vinay Kumar Katyal, Director (Bangalore Complex), Shri Manoj Jain, Director (R&D), Shri Damodar Bhattad, Director (Finance), and other senior officers of BEL and GSL.

At Aero India 2023, the biennial air show and aviation exhibition held recently at Yelahanka Air Force Station, Bengaluru, Bharat Electronics Ltd. (BEL) signed an MoU with Goa Shipyard Limited (GSL) for co-operation in addressing global market opportunities for supply for state-of-the-art products such as Autonomous Boats, and other systems/solutions based on Artificial Intelligence for Naval platforms.

Shri Bhanu Prakash Srivastava, CMD, BEL and Shri Brajesh Kumar Upadhyay, CMD, GSL, exchanged the MoU documents at Aero India in the presence of Shri Vinay Kumar Katyal, Director (Bangalore Complex), Shri Manoj Jain, Director (R&D), Shri Damodar Bhattad, Director (Finance), and other senior officers of BEL and GSL.

GRSE inks Strategic Collaborations at Aero India 2023

Garden Reach Shipbuilders & Engineers Ltd. signed strategic MoUs as part of the 'BANDHAN' initiative at Aero India 2023, Bengaluru, that will



Officials from GRSE after MoU Signing.

help the shipyard boost its Shipbuilding and Ship Repair capabilities and identify and explore synergies and partnerships for the niche market in India and neighbouring countries.

GRSE has signed MoUs with M/s Aerospace Engineers Pvt. Ltd., M/s Central Institute Fisheries Technology, M/s Dynatron, M/s Keltron, M/s Krasny Marine, M/s Naval Group France, M/s Rekise Marine Pvt. Ltd., M/s Rolls Royce Solutions GmbH (MTU), and M/s Tunga Aerospace Pvt. Ltd.

HAL and Argentinian Air Force Sign Contract

HAL signed a contract with Argentinian Air Force (AAF) for supply of spares and engine repair of legacy two tonne class helicopters.

The contract was signed by Brigadier General Xavier Issac, Chief of Air Force, AAF and Shri C. B. Ananthakrishnan, CMD, HAL.

Brigadier General Xavier Issac said the contract for support service is a stepping stone for the future engagements and defence co-operation between India and Argentina.



Brigadier General Xavier Issac, Chief of Air Force, AAF and Shri C. B. Ananthakrishnan, CMD, HAL along with other officials from HAL During Contract signing.

Shri Ananthakrishnan said this contract will further pave the way for giving new impetus for Defence exports in the Latin American region. HAL has been supporting the Indian Defence Services and will extend all the support to the AAF too.

NBCC awarded the work for construction of Indian Institute of Foreign Trade (IIFT) Kakinada, Andhra Pradesh new campus

NBCC (India) Limited has been awarded the work for the construction of a new campus of Indian Institute of Foreign Trade (IIFT), Kakinada, Andhra Pradesh valuing Rs. 229.81 crores. The MoU was inked by Shri P.K. Gupta, Registrar, IIFT, and Shri P.S. Rao, Chief General Manager (Engg), NBCC (India) Limited.

The work includes the construction of the admin building, academic block, hostel, canteen, auditorium, residential quarters, etc.

NBCC has also successfully completed the Vanijya Bhawan, New Delhi project under Ministry of Commerce and Industry which was applauded by Hon'ble Prime Minister during inauguration.

PFC signs MoU with Govt. of Andhra Pradesh at the Global Investors Summit 2023

Power Finance Corporation Ltd. (PFC) has signed



Shri Ravinder Singh Dhillon, CMD, PFC; Shri Sagili Shan Mohan (IAS), MD, APMIDCL; Shri Peddireddy Ramachandra Reddy, Minister of Energy, GoAP; Shri K. Vijayanand, IAS, Special Chief Secretary (Energy), GoAP; Shri Rajiv Ranjan Jha, Director (Projects), PFC; Smt. Shehla Sadaf, General Manager (Projects), PFC along with other senior officials of GoAP&PFC after MoU signing.

a Memorandum of Understanding (MoU) in Vishakhapatnam during the first day of Global Investors Summit 2023 hosted by Govt. of Andhra Pradesh. The MoU envisages providing financial assistance for projects in Power & allied sectors and Infrastructure projects in the State of Andhra Pradesh which will facilitate development & economic growth in the State. Presently the envisaged funding for generation, transmission, distribution and infrastructure projects is approx. Rs. 36000 crore.

The MoU was signed by Shri Ravinder Singh Dhillon, CMD, PFC and Shri Sagili Shan Mohan (IAS), MD, APMIDCL, on behalf of GoAP, in the presence of Shri Peddireddy Ramachandra Reddy, Minister of Energy, GoAP, Shri K. Vijayanand, IAS, Special Chief Secretary (Energy), GoAP, Shri Rajiv Ranjan Jha, Director (Projects), PFC, Smt. Shehla Sadaf, General Manager (Projects), PFC along with other senior officials of GoAP&PFC.

The MoU underlines the PFC's commitment towards playing a pivotal role in powering the nation's aspirational journey towards a sustainable future.

PFC has been a partner in the continuous growth and development in the State with a cumulative sanction of about Rs.86000 crore and cumulative disbursement of about Rs. 66000 crore to the State Utilities of AP.

PSEs CSR Activities

IRFC provides medical equipment under its CSR to public charitable hospital in Manipur



Minister for Public Works Department, Youth Affairs & Sports, Govt. of Manipur, Shri Govindas Konthoujam; CMD (Addl. Charge) & Director (Finance), IRFC, Smt. Shelly Verma along with other officials from IRFC during the inauguration.

Indian Railway Finance Corporation Limited, under its Corporate Social Responsibility, supported D-Cucus-Education Centre, Manipur in setting up Manipur Institute of Medical Sciences Hospital in Bishnupur district by providing ultra-modern medical equipment for the welfare of the people of the state.

Minister for Public Works Department, Youth Affairs & Sports, Govt. of Manipur, Shri Govindas Konthoujam; CMD (Addl. Charge) & Director (Finance), IRFC, Smt. Shelly Verma; General Manager (Finance), Shri Prasanta Kumar Ojha and other officers from different departments of the state government were present during the inauguration of the hospital.

IRFC donated medical equipment to the hospital which would provide free treatment and medical facilities to the people of the state, besides providing round the clock emergency services.

The hospital will also impart trainings, degree, diploma and certificate courses to the students in the field of medical sciences at lowest possible rates or without any cost for the upliftment of the marginalized sections of the society, besides establishing research centers for different diseases, their treatment and other medical science activities.

Pertinent to mention that IRFC strives to remain a responsible corporate entity and thereby, contributes towards inclusive growth and equitable development in the society as a part of its corporate social responsibility and sustainability policy.

NALCO organizes Voluntary Blood Donation Camp



Shri Sridhar Patra, CMD, NALCO and Smt. Sasmita Patra, President NALCO Mahila Samiti along with other officials from NALCO during the blood donation camp.

In the run-up to the International Women's Day and as part of Azadi Ka Amrit Mahotsav, NALCO in association with NALCO Mahila Samiti organized a voluntary blood donation camp at NALCO Nagar, Bhubaneswar. The camp was inaugurated by Shri Sridhar Patra, CMD, NALCO in the presence of Smt. Sasmita Patra, President NALCO Mahila Samiti. The camp witnessed enthusiastic participation from Nalconians, their family members and contractual staff. Sixty-eight units of blood were collected from donors with support of Central Red Cross Blood Bank, Cuttack.

NLC India Limited organizes Free Medical Camp at U. Mangalam, Neyveli

NLC India Limited organized a Free Medical Camp at U. Mangalam Adi Dravidar Middle School under its CSR initiative, benefitting the U. Mangalam, Neyveli & surrounding areas.

• Social responsibility:

NLC India Hospital conducts free medical camps every year in surrounding villages of Neyveli as



Shri Raja Sekar Reddy, ED/Mines, Shri Raj Mohan, CGM/ Mine-II Dr. C. Dharini Mouli, General Superintendent (I/C) of NLC India Hospital and others just after presenting Wheelchairs, at the Free Medical Camp organized on, U. Mangalam, Neyveli, by NLC India Limited.

part of its Corporate Social Responsibility (CSR) initiatives. One such Free Medical Camp was conducted at U. Mangalam, Neyveli.

- **Specialist Doctors:**

The camp was inaugurated by Shri. Raja Sekar Reddy, ED/Mines in the presence of Shri. Raj Mohan, CGM/ Mine II, Dr. C. Dharini Mouli, General Superintendent (I/c) of NLC India Hospital, at U. Mangalam Adi Dravidar Middle School Campus. Specialist doctors, Medical staff, Nurses

and Pharmacists of NLC India Limited from various departments like General Medicine, Pediatrics, Gynaecology, Ophthalmology, Dental, ENT, Dermatology, Ortho-pediatrics, Ayurveda participated in the Medical Camp and provided treatment to the surrounding areas.

- **Free treatment along with Free Medical Aids & Equipment:**

Blood tests were conducted and based on the reports, treatments were given accordingly. Free Medical Aids & Equipments like 5 Nos. of Hearing Aids, 12 Nos. of Wheel Chairs, 8 Nos. of Tripods and 6 Nos. of Walker was presented to the needy public. Also, First Aid Kits and a modern Water Purifier were donated to the U. Mangalam Adi Dravidar Middle School by NLC India Limited.

- **Participants:**

A total of 1128 persons including 377 Male, 540 Female and 204 Children's were benefitted by this camp. The occasion was graced by President of U. Mangalam Neyveli and Head Master, U. Mangalam Adi Dravidar Middle School.

EIL celebrates 59th Foundation Day

Engineers India Limited (EIL) celebrated 59th Foundation Day. CMD, EIL inaugurated the celebrations, which was attended by Functional Directors, CVO, senior officials and a large number of employees.

In her address, CMD said that the Company must remain adaptable, innovative, and agile in the rapidly changing business environment, to be on the sustained growth path. While complimenting the employees for achieving several critical milestones, she urged everyone to draw inspiration from Company's founding fathers to provide end to end technological solutions across the globe.

On the occasion, a Press Conference was also organised wherein CMD along with Functional Directors apprised the media on EIL



CMD, EIL along with Functional Directors, CVO and Senior officials from EIL during the 59th Foundation Day.

business outlook, renewed vision & new initiatives. Addressing the media, CMD elaborated the organization's journey of building the energy infrastructure for the country over past five and half decades and the anchor role played by it towards technology development and its commercialization. Emphasising on EIL's forte of mega project execution, CMD said that the Company is executing projects with combined capital outlay of around \$20

billion in India and is also implementing mega projects in diverse geographies amidst adverse climate and challenging global business environment.

Later in the day, Long Service Awards Ceremony was organized by the company to honour employees for their dedicated services to the Company. The programme was also attended by family members of employees receiving the honours.

Awards & Accolades to PSEs

EIL conferred with Governance Now 9th PSU awards



Shri Ashok Kumar Kalra, Director (HR), EIL receiving the award on behalf of EIL.

Engineers India Limited (EIL) has been bestowed with four awards at the Governance Now 9th PSU Awards held in New Delhi.

Smt.Vartika Shukla, CMD, EIL was conferred with the "CMD Leadership Award" while the "HR Leadership Award" was presented to Shri Ashok Kumar Kalra, Director (HR), EIL. The Company also earned plaudits in "Communication Outreach" and "Reskilling of Employees" categories. On behalf of the Company, Director (HR) & Team EIL received the Awards from Justice Shri Dipak Mishra, former Chief Justice of India.

Accepting this recognition, Smt. Vartika Shukla, CMD, EIL said "Public Sector Companies have been steering the national economy towards meeting the desired socio-economic objectives. In its long journey of more than five and a half decades, EIL is also committed to provide solutions to the energy industry for sustainable economic growth for the nation."

EIL conferred with ET Ascent Awards

Engineers India Limited (EIL) has been bestowed with two awards at the ET Ascent Awards held in Mumbai. The ET Ascent award honours business leaders and organisations that have made outstanding contribution to the business world.



Shri Sanjay Jindal, Director (Finance), EIL receiving the award.

Smt.Vartika Shukla, CMD, EIL was awarded the ET Ascent 'Business Leader of the Year' Award, for her unwavering commitment towards, Digitalization, Energy Transition and Net Zero targets.

Shri Sanjay Jindal, Director (Finance), EIL was conferred with the ET Ascent 'CFO Leader' Award for his outstanding contributions in Financial Management in EIL.

Commenting on this recognition, Smt. Vartika Shukla, CMD, EIL said "In its long journey of providing services to the energy industry, EIL has transformed its business operations fully aligned with the global Environment, Social & Corporate Governance framework to buttress the national endeavors for mitigating the Climate Change while securing its energy requirements".

GRSE Bags 9th Governance Now PSU Awards in 'Communication Outreach' for Four Years in a Row



Justice Dipak Misra, Former Chief Justice of India presenting the Award to GRSE officials.

Garden Reach Shipbuilders and Engineers Ltd. (GRSE) has bagged Awards in Communication Outreach, CSR Commitment (Overall), Digital PSU and Reskilling of Employees (Training & Development) categories at the 9th Governance Now PSU Awards. Justice Dipak Misra, Former Chief Justice of India presented the award to GRSE at an award function in New Delhi. It is noteworthy to mention that GRSE has been adjudged winner for Communication Outreach Award for fourth year in a row.

Chairman, IndianOil, emerges as the Top Indian CEO in the CEO World Magazine Ranking for 2023

Shri S. M. Vaidya, Chairman, IndianOil, has been ranked as the top Indian CEO, by the CEOWorld magazine in their annual list of World's Most



Influential CEOs for the year 2023. Shri Vaidya tops the chart among the Indian CEOs and ranks 81 globally in the illustrious list of over 1,200 CEOs across 96 countries.

Sharing his thoughts, Shri S. M. Vaidya, said, "I am humbled and grateful for this recognition. This is not just a personal achievement but a testament to the collective efforts of the IndianOil team to march towards an energy-secured greener tomorrow. IndianOil is on a remarkable ascent, and this honour strengthens our resolve to achieve greater heights."

As one of the leading energy technocrats with over 36 years of experience in the downstream petroleum industry and refinery-petrochemical integration, Shri Vaidya has actively contributed to global energy security and sustainability dialogues. Besides steering IndianOil's core fuel business, he had led IndianOil into a new era of environmental sensitivity through a green agenda that got new momentum when he declared IndianOil's aim of achieving Net Zero Operational emissions by 2046. As India sets its eyes on a cleaner future, IndianOil is emerging as the game-changer through focused green collaborations, intensified R&D and innovative sustainable practices.

Shri Vaidya has also put IndianOil firmly on the forefront of corporate India's conservation efforts through initiatives like supporting the Cheetah reintroduction program in India and protecting Indian single-horned rhinos, among others. Driven by his people-centric approach, IndianOil has emerged as one of India's most valued social enterprises with social outreaches across multiple areas like health-care, education, women's empowerment, and heritage conservation.

The CEO World's ranking recognises Shri Vaidya's thought leadership, global influence, and the impact of his contributions towards the worldwide energy discourse. The assessment parameters include company's financial returns, environmental track record, governance, social outreaches, market share, market capitalisation, and the brand's newsworthiness & impact.

CMD, NBCC Conferred with CMD Leadership Award



Justice Dipak Misra, Former Chief Justice of India presenting the award to Shri Pawan Kumar Gupta, CMD, NBCC.

Shri Pawan Kumar Gupta, CMD, NBCC has been bestowed with ‘CMD Leadership Award’ from ‘Governance Now’ during the 9th PSU Awards function at New Delhi for his contributions to Diversity, Inclusion and Belonging in the industry.

The award was presented to Shri Gupta by Former Chief Justice of India (Supreme Court) Justice Dipak Misra. The Governance Now Awards recognizes the efforts of Public Sector Undertakings (PSUs) that have been a key to the country’s growth.

CMD, PFC conferred with the “CMD LEADERSHIP AWARD” at the 9th PSU Awards & Conference

Shri Ravinder Singh Dhillon, CMD of Power Finance Corporation Ltd. (PFC), was conferred with the “CMD Leadership Award (Maharatna)” by Governance Now (SAB TV Group) in recognition of his stellar leadership, path-breaking energy transition initiatives, remarkable achievements and contribution to the accelerated development of the Power Sector. Shri Dhillon received this award from Justice Dipak Misra, Former Chief Justice of India, Supreme Court.

The above event was supported by the Ministry of Heavy Industries and Ministry of Jal Shakti, Govt. of India. The award ceremony was marked by the presence of dignitaries and key officials from State & Central PSUs, key personnel from the government, senior Bureaucrats and policymakers.



Shri R. S. Dhillon receiving the Award from Justice Dipak Misra, Former Chief Justice of India, Supreme Court.

WAPCOS Conferred with Best Consultancy Organization Award 2022-Water Resources Sector



Shri R.K. Singh, Minister of Power, New & Renewable Energy, Government of India presenting the award to Shri R.K. Agrawal, CMD, WAPCOS.

WAPCOS was conferred with “Best Consultancy Organization Award 2022-Water Resources Sector” by Central Board of Irrigation and Power” at a ceremony held at New Delhi recently. The Award was presented by Shri R.K. Singh, Minister of Power, New & Renewable Energy, Government of India to Shri R.K. Agrawal, CMD, WAPCOS.

BHEL wins CBIP Award 2022 for 'Best Contribution in Solar Energy'



Shri R.K. Singh, Union Minister of Power and New & Renewable Energy presenting the award to Dr. Nalin Shinghal, CMD, BHEL, along with Smt. Renuka Gera, Director (IS&P), BHEL.

BHEL has been awarded the CBIP Award 2022 for 'Best Contribution in Solar Energy'. The award was received by Dr. Nalin Shinghal, CMD, BHEL, along with Smt. Renuka Gera, Director (IS&P), BHEL from Shri R.K. Singh, Union Minister of Power and New & Renewable Energy, on CBIP Day. CBIP awards are conferred for outstanding contribution to the development of water, power and renewable energy sectors.

PSEs celebrate International Women's Day

Women's Day celebrations at IndianOil



Shri S. M. Vaidya, Chairman, IndianOil; Dr. S. S. V Ramakumar, Director (R&D), IndianOil; Shri Ranjan Kumar Mohapatra, Director (HR), IndianOil; Shri D. S. Nanaware, Director (Pipelines), IndianOil; Smt. Sukla Mistry, Director (Refineries), IndianOil; Shri Sujoy Choudhury, Director P&BD, IndianOil; Smt. Soma Mondal, Chairman, SAIL along with other senior officials and women employees of IndianOil during Women's Day celebrations.

Amidst a vibrant gathering of women IOCsians, IndianOil's celebratory function for the International Women's Day 2023 was held at SCOPE Auditorium, New Delhi, in the presence of Shri S. M. Vaidya, Chairman, and IndianOil Board Members – Dr. S. S. V Ramakumar, Director (R&D), Shri Ranjan Kumar Mohapatra, Director (HR), Shri D. S. Nanaware, Director (Pipelines), Smt. Sukla Mistry, Director (Refineries), and Shri Sujoy Choudhury, Director P&BD. Smt. Soma Mondal, Chairman, Steel Authority of India Ltd. was the Chief Guest of the programme.

Conveying his greetings on the day, Shri Vaidya said, "I have chosen to omit the traditional greeting of 'ladies and gentlemen' for this address, as I believe it is essential to recognize that gender should not be a restrictive factor in our language and communication. More importantly, it is crucial to acknowledge that gender equity and inclusivity starts with the recognition that gender identities should not be restricted to a binary."

While honouring the immense contributions of women in society and specifically, IndianOil, Shri Vaidya said, "Though this celebration falls a few days after the observed Women's Day on March 8th,

it serves as a reminder that we need not confine our recognition and celebration of women-power to a single day in the year."

Addressing the gathering, the Chief Guest for the event, Smt. Soma Mondal emphasized on the importance of technology while talking about the theme for this year's International Women's Day: 'DigitALL – Innovation & Technology for Gender Equality'. "Given the technologically transformed world that we are living in, the quest for inclusivity must begin with Digital equity", added Smt. Mondal. In her highly motivating address to the young women, Smt. Mondal focused on "setting priorities". She encouraged women to set their own priorities and decide the pace for the same. She specifically complimented the IndianOil Management for being the most proactive in supporting women.

Extending his greetings to all IOCsians on the occasion, Shri Ranjan Kumar Mohapatra, Director (HR), said, "I strongly feel that it's not 'equality' but 'equity' that we should be talking about. While equality is definitely a great leap in which women are treated at par but equity goes beyond it."

Shri Mohapatra also talked about IndianOil's focus on enhancing the capabilities of women. "We have

created landmark social outreaches like the Vidushi and Medha Chhatravritti Scholarships, which are just two examples of our efforts to support India's young women in their pursuit of rewarding careers", added Shri Mohapatra.

In her address, Smt. Sukla Mistry, Director (Refineries) and the first woman on the IndianOil board said that this day gives us an opportunity to salute and celebrate the success of countless women, who have individually and collectively, broken stereotypes and carved a place for themselves.

A Women's Day Special Edition Journal was also released by the dignitaries to mark the occasion. Earlier, the programme began with the IndianOil song and the ceremonial lamp lighting.

NMDC celebrates International Women's Day 2023



Women employees of NMDC during Women's Day celebrations.

NMDC has been an advocate for women empowerment through its various training and CSR activities. On International Women's Day 2023, NMDC organised a talk show on menstruation, a concept that is still taboo in various parts of the world. NMDC invited Dr. Vimee Bindra Basu, a leading obstetrician-gynaecologist in Hyderabad and a crusader for endometriosis as the Chief Guest to shed light on women's health.

Speaking on the occasion Dr. Vimee Bindra Basu said, "The conversation around women's health is particularly important because one in ten women suffer from reproductive issues and are unaware of symptoms. Women today need to be equipped with the right information to support each other. The idea behind starting 'Endometriosis Foundation of India' was to create conversations around this topic

and help more women by breaking the stigma attached to menstruation. I encourage women and men alike to come forward and participate in these discussions at their homes openly."

The event ended with various indoor games and cultural programmes performed by women employees and apprentice girls. NMDC senior officials presented special mementos to the women participants. They also distributed millets to all the women on the occasion of International Women's Day 2023, as a continued celebration of the International Year of Millets 2023.

NHPC celebrates International Women's Day 2023

NHPC observed International Women's Day under Azadi Ka Amrit Mahotsav with great fervour and enthusiasm at its Corporate Office, Faridabad. NHPC's T&HRD Division and NHPC WIPS (Women in Power Sector) cell organized a one day-workshop for NHPC women employees under the theme 'Digital – Innovation and Technology for Gender Equality' to commemorate International Women's Day.

Smt. Indra Banerjee, Retd. Judge, Supreme Court of India was the Chief Guest on the occasion and Smt. Pinky Anand, Senior Advocate, Supreme Court of India was Guest of Honour. Shri Y.K. Chaubey, Director (Technical), NHPC, Shri R.P.



Smt. Indra Banerjee, Retd. Judge, Supreme Court of India, Smt. Pinky Anand, Senior Advocate, Supreme Court of India, Shri Y.K. Chaubey, Director (Technical), NHPC, Shri R.P. Goyal, Director (Finance), NHPC, Shri Biswajit Basu, Director (Projects), NHPC alongwith Dr. Kamla Fartyal, GGM (MS) cum Chairperson, WIPS Cell, NHPC, Smt. Niti Singh, GSM (Law) cum General Secretary, WIPS Cell, NHPC during International Women's Day celebrations at NHPC Corporate Office.

Goyal, Director (Finance), NHPC and Shri Biswajit Basu, Director (Projects), NHPC were also present alongwith Dr. Kamla Fartyal, GGM (MS) cum Chairperson, WIPS Cell, NHPC, Smt. Niti Singh, GSM (Law) cum General Secretary, WIPS Cell, NHPC and other senior officers and women employees. In her address, Smt. Banerjee gave an insight into the judicial system and highlighted the various measures taken towards women empowerment. Speaking on occasion, Shri Y.K. Chaubey, Director (Technical) & Director (Personnel), NHPC praised all the lady employees for their hard work and for successfully managing their professional as well as personal lives. Smt. Pinky Anand also commended NHPC lady employees and further highlighted upon issues concerning gender equality.

A special highlight of the programme was the launch of NHPC e-learning portal 'E-Shiksha' by Shri Y.K. Chaubey, Director (Technical), NHPC. During the function 31 NHPC women employees were also felicitated in recognition of their professional competence and also for their achievements in various sporting tournaments conducted by Power Sports Control Board. Earlier, NHPC WIPS Cell had also organized Talk on Cyber Security on March 3rd 2023 in association with Haryana Police and Talk on Mental Health by Dr. Jaya Sukul, Clinical Psychologist, Marengo Asia Hospitals as part of International Women's Day celebrations.

WIPS Forum, NLCIL Chapter celebrates International Women's day and makes a mark

WIPS, Neyveli chapter celebrated International Women's Day-2023 with a grand presence of more than four hundred attendees at Learning & Development Centre of NLCIL.

"Women's safety is now at their finger tips", said Smt. K.V. Kaviya, Deputy Superintendent of Police, Thittakudi, who graced the occasion as the Chief Guest of the function. She emphasized that latest technology advancements including S.O.S. App, wherein even a click starts sending alerts and location link will open the maps app on supported smartphones. Smt. Malathi Selvam, GC



Smt. K.V. Kaviya, Deputy Superintendent of Police, Thittakudi; Smt. Malathi Selvam, GC Member, Lalit Kala Academy, Ministry of Culture, Pondicherry and other senior officials from WIPS and NLCIL during the Women's Day celebrations.

Member, Lalit Kala Academy, Ministry of Culture, Pondicherry, the Guest of Honour, shared her journey of being bestowed with Kalaimamani by the State Government by securing the fourth position in All India level for her Rangoli Art. Determination and dedication the 2 Ds make essential ingredients of success; making even the smallest task leading to the greatest recognition was her inspirational message to the audience. The other invitees who delivered their messages were Smt. Manjula Reddy, Smt. Divya Suman, Smt. Manisha Swarup and Smt. Rajeswari Chandrasekar. During the celebration, sewing machines were presented by the Forum to the under privileged ladies from the community. Best performer awards for their contribution to WIPS were also distributed to the women employees of NLCIL. Cultural programme by physically challenged employees and others was enthralling to the guests and the large audience.

The welcome address was given by Dr. C. DhariniMouli, GS, NLCIL Hospital & President, WIPS apex, Dr. Vijayakumari. S, President, WIPS Neyveli Chapter shared her thought provoking message. Dr. Shulagna Sarkar, General Secretary, WIPS presented the activity report of WIPS Neyveli Chapter FY 2021-23. WIPS pledge was read by Smt. Vandana Meena, Coordinator, WIPS.

The function was graced by Shri K. Mohan Reddy, Shri Suresh Chandra Suman, Shri Samir Swarup, Functional Directors, NLCIL, Shri L. Chandrasekar, CVO/NLCIL and a large number of women employees. The vote of thanks was rendered by Smt. Kakunuri Parvathi, Treasurer, WIPS, Neyveli.

Personalia



Shri Amitava Mukherjee
assumes additional charge
as Chairman & Managing
Director of NMDC Limited.



Shri G. Krishnakumar
assumes charge as Chairman
& Managing Director of Bharat
Petroleum Corporation Limited.



Shri R. R. Singh
assumes charge as Chairman &
Managing Director of The Oriental
Insurance Company Limited.



Shri Vishwanath Suresh
assumes charge as Director
(Commercial) of NMDC Limited.



Shri Sanjay Choudhuri
assumes charge as Director (Finance)
of Numaligarh Refinery Limited.



Dr. S.P. Mohanty
CMD, Brahmaputra Valley Fertilizer
Corporation Limited assumes
additional charge as Managing
Director of Hindustan Urvarak &
Rasayan Limited.



Shri Kartikeya Sinha
assumes charge as Director (Planning
& Marketing) of The National Small
Industries Corporation Limited.



Shri Manoj Tandon
assumes charge as Director (Projects,
Operation & Maintenance) of RailTel
Corporation of India Limited.



Shri Murli Krishna Ramaiah
assumes charge as Director
(Personnel) of Bharat Coking Coal
Limited.



Shri Pradip Kumar Banik
assumes charge as Director
(Production) of Brahmaputra Valley
Fertilizer Corporation Limited.

CISF unit BVFCL Namrup celebrates it's 54th Raising Day

Saluting the unwavering commitment of CISF to the security of the nation, CISF unit BVFCL Namrup celebrated it's 54th Raising Day in the presence of Dr. S. P. Mohanty, CMD, BVFCL.





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Public Sector Enterprises



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BPCL



Bharat Petroleum ⚡ @BPCLimited · Mar 18

We are pleased to announce our partnership with 13th Women's World Boxing Championship 2023, being held in New Delhi from March 16 to March 26, where boxers from over 70 countries are competing.

#BPCL #ItsHerTime #WWCHDelhi #WorldChampionships



NTPC



ARCHERY ASSOCIATION OF INDIA

@India_archery

Glimpses of Day 1 - Indian Round

NTPC Senior National Archery Championship - Ektanagar, Gujarat from 9-18 March, 2023

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#InternationalDayOfSportForDevelopmentAndPeace -A day to celebrate the healing power of sports. At #IndianOil, we are proud to drive monumental sporting projects like Parivartan & NaiDisha, to empower India's adult & juvenile prison inmates through magic of sports.



REC



REC Limited ⚡ @RECLIndia · Mar 17

The Government of India has been promoting sports on a larger scale in recent years. REC has committed financial assistance of Rs.100 crore to the National Sports Development Fund. Sh. @Neeraj_chopra1 expressed his delight and gratitude for #REC's #CSR initiative in this regard.



Source: Twitter & Others



Public Sector Enterprises

Nurturing Sportstars of the Country



ONGC



CMD ONGC @CMD_ONGC - Feb 28

Committed to aiding the aspirations of our sportspersons to make #India proud everyday, **ONGC**, is honoured to receive the 'Best PSU for the Promotion of Sports' Award at **#SportstarAces 2023** Awards organised by @the_hindu.

#ONGCJeetegaTohJeetegaIndia
#YouAreEnergy

@g20org



PFC

Sports meet for all employees

Pinkathon Delhi 2019
Supported by PFC

All India Tennis Association's India Vs Denmark Davis Cup Tie

PFC has been extending its financial support in the form of sponsorships to promote India's sporting goals and the creation of conditions necessary to support both national athletic performance and sports culture. The idea is to mainstream sports to advance personal, social, and economic growth and the nation's advancement. To make the vision of "Sports for All" a reality, Indian athletes need to be provided with a nurturing environment. In the past, PFC has supported initiatives like Pinkathon (India's biggest women's run), the All India Tennis Association's Davis Cup, Season 4 of the Pro Tennis League Tournament, WTT Star Contender Goa and the 2041 Climate Force expedition to Antarctica.

Climate Force International Antarctic Expedition

Pro Tennis League Tournament

STLPA World Table Tennis Star Contender Goa 2021

SAIL



Steel Authority of India Limited (SAIL) @SAILsteel - Mar 20

SAIL operates residential sports academies for Archery, Hockey, Athletics and Football at its different plants/units as part of its CSR initiatives for promoting sports and games.

#WeBelieveWeDo

@SteelMinIndia @PbSteel @JM_Scindia @fskulaste @YASMinistry



Oil India Limited

Oil India Limited @OilIndiaLimited

OIL signed an #MoU with Govt of #Assam for building a High Performance #Sports #Training & #Rehabilitation #Center at #Jorhat with Abhinav Futuristic Ltd of Olympic Gold Medalist @Abhinav_Bindra. The occasion was graced by Hon'ble CM, Dr @himantabiswa and @DrRanjiRath CMD, OIL.

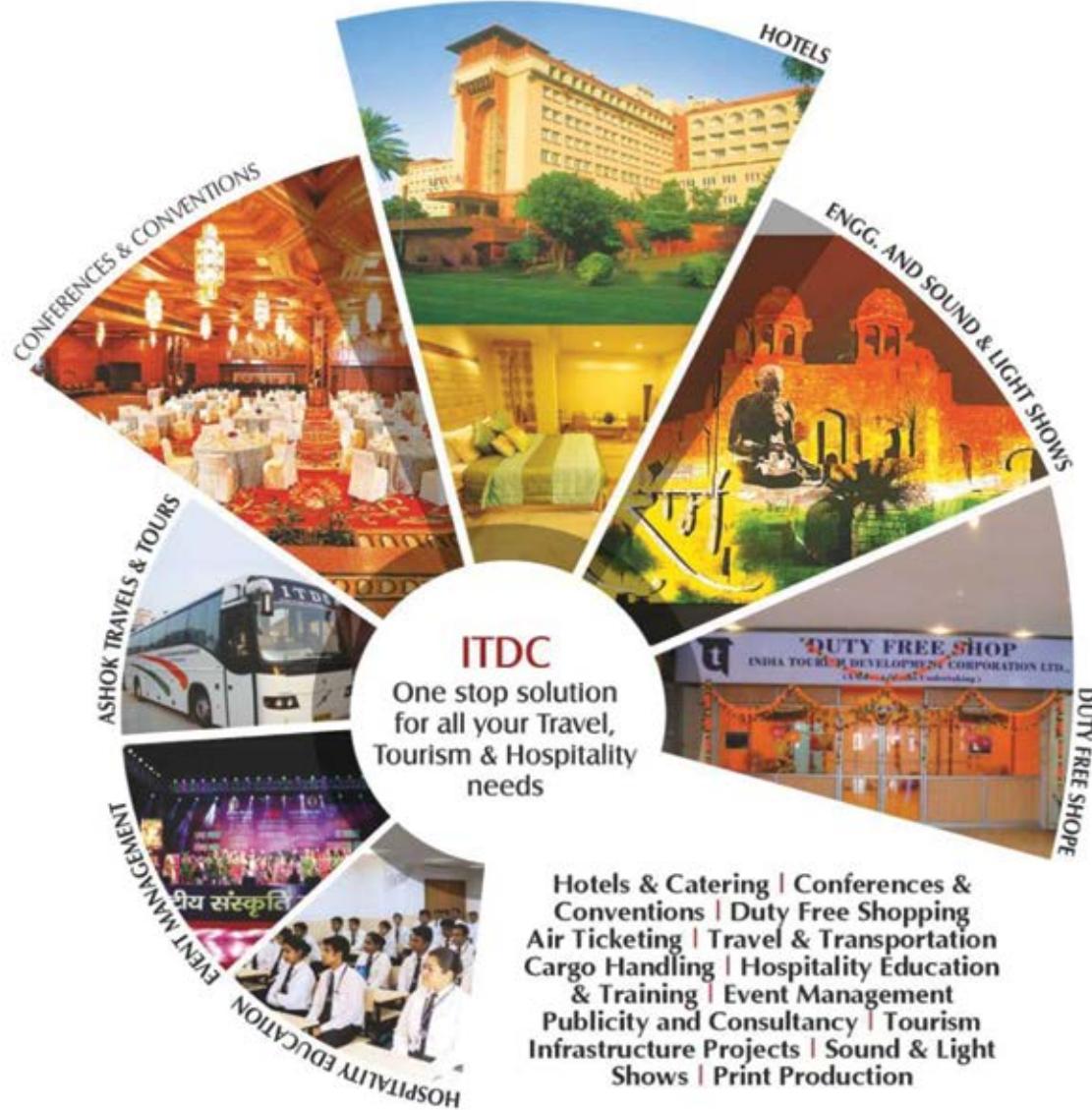


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Source: Twitter & Others

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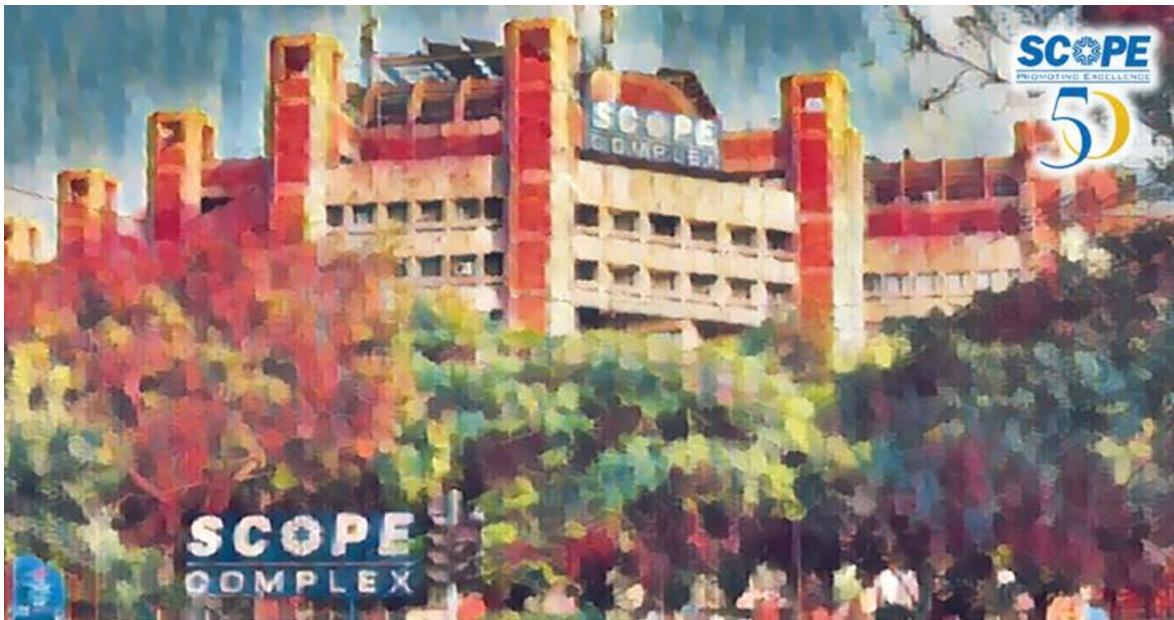
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This aspirational project can only be realized successfully with your support and participation. We look forward to your valuable inputs.



Mr. Shubh Ratna, GM (Tech. & HR), SCOPE

(Mob: 9873398242),

shall be available for any further clarification/information on the subject.

Suggestions may be shared with us on
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