

# KALEIDO SCOPE

STANDING CONFERENCE OF PUBLIC ENTERPRISES



### SCOPE Social Interaction Centre inaugurated



### SCOPE's Art Exhibition cum Painting Competition unveils vivid colours of creativity



### SCOPE's Business Quiz Bonanza puts spotlight on bright minds in PSEs



### SCOPE Sports Premier League showcases exceptional talent from PSEs



### Health Talk cum Health Screening Camp organized



Scan to read other issues of KALEIDOSCOPE



# KALEIDO SCOPE



For advertisement booking, write to:

**Shubh Ratna**  
**GM (Tech. & HR)**

**pr@scopeonline.in, 9873398242**

Scan to read other issues  
of KALEIDOSCOPE

# Content

**05** Message by Chairman

**07** Director General's Desk

**08** SCOPE organizes Public Sector Day celebrations



**12** SCOPE organizes Business Quiz Bonanza as part of Public Sector Day celebrations



**13** SCOPE Sports Premier League organized



**16** SCOPE's Art Exhibition cum Painting Competition adds colour to Public Sector Day celebrations

**20** SCOPE promotes overall wellbeing with Health Talk cum Health Screening camp

**24** Interface with Stakeholders

**25** Personalia

**26** SCOPE in Media

## Articles

**28** Contribution of POWERGRID towards Viksit Bharat@2047

**33** The Art of Giving Back: Employee Volunteering in CSR Activities Transforming Lives by Shruti S Palan

**35** Management Lessons from Mahabharat- Part- IV by Debasis Satapathy

**38** The Vedic Concept of Debts (Rin) and its Relevance to Corporate Social Responsibility (CSR): Bridging Ancient Wisdom with Modern Business Ethics by Ajay Deep

**41** India's Climate Diplomacy: Balancing Development and Environmental Imperatives

**45** PSE News

PSE News

**Our Email IDs have changed to:**

DG Sectt.

**scopedg@scopeonline.in**

Programme & Studies

**ca@scopeonline.in**

Corporate Communications

**pr@scopeonline.in**

Technical

**mmo@scopeonline.in**

Finance

**finance@scopeonline.in**

SCOPE Forum for Conciliation and Arbitration (SFCA)

**sfca@scopeonline.in**

General Queries

**info@scopeonline.in**

Vol. 43 No. 12 May 2024



**ADVISORY BOARD**

Atul Sobti  
*Director General, SCOPE*

Shubh Ratna  
*GM (Tech & HR)*

**CHIEF EDITOR**  
Director General

**EDITOR & PUBLISHER**  
Shubh Ratna

**ASST. EDITOR**  
Lipi Singh

Total Pages : 56

Annual Subscription: Rs. 500/-

Price per copy : Rs. 100/-

(Payment may be sent by DD/Cheque/NEFT drawn in favour of "Standing Conference of Public Enterprises")

Material published in KALEIDOSCOPE may be reproduced with prior permission of the Editor and with acknowledgment in the accepted style. The views expressed in various articles are that of the authors and not necessarily of SCOPE Management. - Editor

Published and printed at New Delhi by  
Shubh Ratna on behalf of Standing Conference of Public Enterprises, Core 8, 1<sup>st</sup> Floor, SCOPE Complex, 7 Lodhi Road, New Delhi-110003 • Tel.: 24361495, Fax: 24361371  
E-mail: [pr@scopeonline.in](mailto:pr@scopeonline.in)  
at M/S Rave Scans ( P ) Ltd, A-27, Naraina Industrial Area, Phase-II, New Delhi

Designed by Marshall Advertising Company  
Tel: 9811470033

Follow us on: PR\_SCOPE OrgSCOPE PrSCOPE PSUSCOPE SCOPE [www.scopeonline.in](http://www.scopeonline.in)



## Message by Chairman

During the month of April, SCOPE, as the apex body of PSEs, undertakes various initiatives to commemorate the pivotal role and contribution of Public Sector Enterprises (PSEs) as the engines of socio-economic progress of the nation. Continuing with its tradition of celebrating the incessant role of PSEs, this year SCOPE organized month-long celebrations with series of events to earmark the pivotal contribution of PSEs.

I am happy to share, that the celebrations kickstarted with the inauguration of the first-of-its-kind 'SCOPE Social Interaction Centre' (SSIC) for PSEs at SCOPE Complex, Lodhi Road, New Delhi. We were honoured to be joined by Chairmen, Directors of PSEs, SCOPE Executive Board and Senior officials from ILO including their Country Director; Joint Secretary, DPE; Economic Adviser and other senior officials from DPE during this milestone event.

Encapsulating the essence of SCOPE's endeavours and its vision, a Coffee table book titled 'Samaveta' was also released. SCOPE also released the special issue of its monthly magazine KALEIDOSCOPE on 'PSEs - Envisioning Viksit Bharat' on this occasion.

The inaugural event was followed by a plethora of events, including Business Quiz, Sports event, Art Exhibition & Competition and a Health program bringing together the best

brains, sport stars, artists and creative minds of the Public Sector fraternity on the same platform.

Our attempt to reverberate the true spirit and talent of PSEs received a very enthusiastic response from our members and I would like to extend our thanks for making this event a grand success.

Moving forward, SCOPE as part of its core objective of Capacity building and skill enhancement has been working closely with the International Labour Organization (ILO) on various aspects of labour and is all set to release a study on 'Skilling for future in PSEs. Understanding the need for skilling in the light of evolving business dynamics, SCOPE collaborated with ILO to undertake this survey-based study to analyse the existing skill landscape in PSEs and requirements needed for future skilling of the workforce.

In the coming months, SCOPE will continue its endeavour to drive excellence in PSEs while creating a conducive environment for learning and development. I look forward to the feedback and suggestions as we continue aiming to be an Inspiring, Innovative and Impactful apex body.

**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 9<sup>th</sup> 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)

1<sup>st</sup> Floor, Core 8, SCOPE Complex, Lodhi Road, New Delhi-11 00 03 • Email: [sfca@scopeonline.in](mailto:sfca@scopeonline.in)  
• Phone: 011- 24360559, 011- 24361745

**Mr. Shubh Ratna**

GM (Tech. & HR)

**Mob: 9873398242**

**Mr. Nishant Kumar**

Sr. Manager

**Mob: 9953046060**

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



## Director General's Desk

At the outset I want to express my gratitude to all for making the month-long celebrations of Public Sector Day a success. The idea behind this endeavour of SCOPE was to bring together the fraternity as one, united force, while reverberating its pivotal role in the country's economy.

During the celebrations held over the last month, SCOPE hosted several events ranging from Quiz Bonanza, SCOPE Sports Premier League to an Art exhibition and competition, as well as Health talk and health screening camp. The underlying idea was to not only exhibit the talent in the fraternity but also facilitate a conducive environment of inter-organizational learning.

SCOPE also opened the gates of its unique facility - SCOPE Social Interaction Centre (SSIC) on 10<sup>th</sup> April. SSIC boasts of cutting-edge amenities and recreational facilities catering to diverse interests and promoting holistic well-being. The facility will be functional in the upcoming months.

A major feature of our celebrations was the felicitation of our new members, who have joined SCOPE recently, acknowledging their commitment and contributions.

Joining in our efforts, the month-long festival of the spirit of the Public Sector received an enormous response, which would not have been possible without the participation of our members.

Moving forward, the apex body continues to work tediously towards its core objective of policy advocacy, representation of PSEs on national and international forum.

It is a matter of great pride that given SCOPE's presence on international forums, the organization has been nominated by ILO as part of the Working Party on the New Social Contract which has been entrusted to prepare tri-partite inputs to the UN World Summit for Social Development. It is a unique opportunity for SCOPE as we are amongst the four employer representatives who will present the interests of employers from 186 countries.

In the coming days, SCOPE is also releasing a first-of-its kind joint study with ILO on 'skill profiles in the public sector' which adopts a qualitative and quantitative research methodology with an aim to fathom the future skills required by workforce to excel and perform.

Taking its learnings from the recently held RTI meet at Shillong, Meghalaya, SCOPE presented 'Proceedings of National Meet on RTI Act' organised by SCOPE in Shillong, Meghalaya to Shri Heeralal Samariya, Chief Information Commissioner, CIC recently.

Several programs are being planned by SCOPE to capacitate workforce and we look forward to the enthusiastic participation of each one of you in our endeavours.

Programmes & Initiatives launched (since last issue of KALEIDOSCOPE)
SCOPE celebrates Public Sector Day Inauguration of SCOPE Social Interaction Centre (SSIC) – 10 <sup>th</sup> April, 2024
SCOPE hosts Health Talk cum Health Screening Camp – 19 <sup>th</sup> April, 2024
SCOPE Sports Premier League organized – 20 <sup>th</sup> & 21 <sup>st</sup> April, 2024
SCOPE Business Quiz Bonanza organized – 23 <sup>rd</sup> April, 2024
SCOPE Felicitated New Members - 25 <sup>th</sup> April, 2024
SCOPE organizes Art Exhibition cum Painting Competition – 25 <sup>th</sup> April, 2024
SCOPE hosts Employees Family Day celebrations – 29 <sup>th</sup> April, 2024
Programmes & Initiatives in the offing
Release of Study on 'Skilling for future in PSEs – An ILO-SCOPE study on skill profiles in PSEs' – 20 <sup>th</sup> May, 2024

**Atul Sobti**  
Director General, SCOPE

## SCOPE organizes Public Sector Day celebrations

**SCOPE Social Interaction Centre (SSIC) inaugurated as part of celebrations**



Shri Sandeep Kumar Gupta, Chairman, SCOPE & CMD, GAIL in the presence of Shri Atul Sobti, Director General, SCOPE; Shri Brajesh Kumar Upadhyay, Vice-Chairman, SCOPE & CMD, Goa Shipyard; Executive Board Members of SCOPE and other dignitaries inaugurating SCOPE Social Interaction Centre.

Embarking on a new journey and part of Public Sector Day celebrations, Standing Conference of Public Enterprises (SCOPE) inaugurated the first-of-its-kind 'SCOPE Social Interaction Centre' (SSIC), at SCOPE Complex, Lodhi Road, New Delhi on 10<sup>th</sup> April, 2024. SSIC was inaugurated by Shri Sandeep Kumar Gupta, Chairman, SCOPE & CMD, GAIL in the presence of Shri Atul Sobti, Director General, SCOPE; Shri Brajesh Kumar Upadhyay, Vice-Chairman, SCOPE & CMD, Goa Shipyard; Dr. Vasundhara Upmanyu, Joint Secretary, Department of Public

Enterprises (DPE); Shri Lucas L. Kamsuan, Joint Secretary, DPE; Ms. Michiko Miyamoto, Country Director, ILO India. Shri Gurdeep Singh, CMD, NTPC; Shri K.S. Murthy, CMD, BHEL; Shri Amarendu Prakash, Chairman, SAIL; Ms. Vartika Shukla, CMD, EIL; Shri K.P. Mahadevaswamy, CMD, NBCC; Shri Pravin Kumar Purwar, CMD, MTNL; Members, SCOPE Executive Board, Chairmen, Directors of PSEs and Senior officials from ILO, DPE, SCOPE associates were also present. Public Sector Day celebrations were organized in PSEs across the country. During

the event, a Coffee table book titled 'Samaveta' - a succinct representation of vision and role of SCOPE, and special issue of SCOPE's monthly magazine KALEIDOSCOPE on 'PSEs - Envisioning Viksit Bharat' were also released. Shri Sandeep Kumar Gupta said that Public Sector Day is commemoration of the spirit of the Public Sector and all the endeavours of SCOPE including the SSIC are a step towards empowering PSEs. He further highlighted the continuous endeavours of SCOPE towards policy advocacy, and assured that the apex body will continue



to pursue it with utmost vigour. Shri Atul Sobti in his address highlighted the dynamic role being played by PSEs in the socio-economic progress of the nation and emphasised that Public Sector can achieve anything if there is synergy amongst them. SCOPE, as the apex body, he added, continues

to undertake endeavours to foster an environment of synergy and coherence amongst PSEs. Shri Brajesh Kumar Upadhyay speaking on the occasion said that the newly inaugurated SSIC, like all SCOPE's endeavours, will further strengthen the collaboration amongst the PSE fraternity. Each year, Public

Sector Day celebrations are held on 10<sup>th</sup> April commemorating the incessant role of Public Sector Enterprises (PSEs) in the national economy. This year, the month-long celebrations being organized by SCOPE included Sports event, Art Exhibition & Painting Competition, Business Quiz, and a Health program.



# Glimpses of Public Sector Day celebrations at SCOPE





# SCOPE organizes Business Quiz Bonanza as part of Public Sector Day celebrations



Shri Amarendu Prakash, Chairman, SAIL; Shri Atul Sobti DG, SCOPE and Shri Uttam Lal, Program Director & Director (Personnel), NHPC felicitated the winners of SCOPE Business Quiz Bonanza.

Fostering inter-organizational learning and teamwork, Standing Conference of Public Enterprises (SCOPE) hosted a thrilling Business Quiz Bonanza at SCOPE Complex, New Delhi on 23<sup>rd</sup> April, 2024. The event was addressed by Shri Amarendu Prakash, Chairman, SAIL; Shri Atul Sobti, DG, SCOPE and Shri Uttam Lal, Program Director & Director (Personnel), NHPC.

### Winners of SCOPE Business Quiz Bonanza:

Anshuman Srivastava & K. M. Prasanth, NTPC (Winners); Subhasish Wilfred Kispotta & Anand Raj, SAIL (Runners-up).

Witnessing an overwhelming response, the event was attended

by around 120 teams from 26 PSEs across the country. Enunciating the contributions and achievements of the Public Sector, Quiz tested the acumen of participants on a wide range of topics, including business, economics and current affairs. Quiz Masters – Shri Chandan Shahi from NTPC and Shri Deepak Taneja from IOCL conducted the quiz in a very professional manner.



# SCOPE Sports Premier League organized

More than 150 participants from over 30 PSEs compete to clinch titles



[R-L] Shri K. S. Murthy, CMD, BHEL; Smt. Indu Puri, Veteran TT player and Shri Atul Sobti, DG, SCOPE during SCOPE Sports Premier League Awards distribution ceremony.

As part of Public Sector Day celebrations, Standing Conference of Public Enterprises (SCOPE) organized SCOPE Sports Premier League featuring Badminton and Table Tennis competitions at SCOPE Social Interaction Centre (SSIC), Lodhi Road, its newly launched facility on 20<sup>th</sup> & 21<sup>st</sup> April, 2024.

Shri K. S. Murthy, CMD, BHEL; Smt. Indu Puri, Veteran Table Tennis player and Shri Atul Sobti, DG, SCOPE felicitated winners of the tournament that was contested by over 150 participants from over 30 PSEs across the country. Ms. Sukla Mistry, Director (Refineries), IOCL was present during the inaugural session of SCOPE Sports Premier League.

Shri Lalit Kumar Watts, Advisor, Petroleum Sports Promotion Board (PSPB); Mr. Peter Nilsson,

## Winners of SCOPE Sports Premier League:

Hitesh Kr. Sharma, EIL (Badminton, Men Singles);  
Ria Dhameja, IOCL (Badminton, Women Singles);  
Ajay Jha, FCI (TT, Men Singles); Ritu Rana, FCI (TT, Women Singles); Rajasekar V. and Ashish Deep, ONGC (Badminton, Men's Doubles);  
Dr. Pinki Roy & Aditi Bisht, NHPC (Badminton, Women's Doubles); Ashish Kumar & Aditi Bisht, NHPC (Badminton, Mixed Doubles) and Rajinder Singh, IRCON in Veteran category (Badminton, Men Singles).

Swedish National TT champion and coach of PSPB TT Academy, Sonipat along with U-15/U-13 TT national champions - Sahil Rawat, Vivaan Dave, Ronald Sarkar and Rajdip Dey also graced the inaugural session of TT event. They also displayed their TT skills and shared tips with the participants.

SCOPE Sports Premier League has been initiated by SCOPE to encourage inter-organizational learning and competitiveness amongst sportspersons in the Public Sector. SCOPE has dedicatedly been working towards highlighting the contribution of PSEs in inducing and nurturing sports talent in India. SCOPE Sports Premier League is the first such Sports event organized by SCOPE towards its endeavour of encouraging sportsmanship.



## Snippets of SCOPE Sports Premier League





# SCOPE's Art Exhibition cum Painting Competition adds colour to Public Sector Day celebrations



Dr. Vasundhara Upmanyu, Joint Secretary, DPE, Ministry of Finance (Centre); Shri Atul Sobti, DG, SCOPE (Right) and Shri Shubh Ratna, GM (Tech. & HR), SCOPE (Left) during the event.

Encouraging creative minds, artists and upcoming talent, Standing Conference of Public Enterprises (SCOPE) organized an Art Exhibition cum Painting Competition at SCOPE Social Interaction Centre (SSIC), SCOPE Complex on 25<sup>th</sup> April, 2024, as part of Public Sector Day celebrations.

Dr. Vasundhara Upmanyu, Joint Secretary, DPE, Ministry of Finance inaugurated the event in the presence of Shri Atul Sobti DG, SCOPE, senior officials of PSEs and participants.

SCOPE also felicitated its new members during the event participated by a large number of participants from various PSEs across the country.

The painting competition was held on the themes - 'My Vision

for India of tomorrow', 'Go Green', 'Nation Building by Public Sector' and 'Unleash your imagination through brushes and strokes.' Live Art Sessions by talented artists and an Art exhibition was also organized

in association with Vimla Art Forum during the event.

This unique initiative of SCOPE aimed at unleashing the hidden talents of PSE employees, while encouraging, nurturing their creativity and imagination.



Dr. Vasundhara Upmanyu, Joint Secretary, DPE addressing the participants during the event.



# Glimpses of Art Exhibition cum Painting Competition



# SCOPE FELICITATES ITS



AAI Cargo Logistics and Allied Services Company Ltd.



Armoured Vehicles Nigam Limited



Brahmaputra Valley Fertilizer Corporation Ltd.



Chenab Valley Power Projects Pvt. Ltd.



Delhi Metro Rail Corporation Limited



Gliders India Limited

# NEW MEMBER PSEs



Grid Controller of India Limited



Hindustan Urvarak & Rasayan Limited



Indian Medicines & Pharmaceuticals Corporation Ltd.



Munitions India Limited



NBCC Services Limited



Neyveli Uttar Pradesh Power Ltd.

# SCOPE promotes overall wellbeing with Health Talk cum Health Screening camp



(L-R) Shri Atul Sobti, DG, SCOPE; Dr. Puneet Girdhar, Principal Director & HoD - Spine Surgery, BLK-Max Hospital and Shri Siba Prasad Mohanty, CMD, HURL during Health Talk cum Health Screening Camp.

Prioritizing wellbeing and fitness in the Public Sector, Standing Conference of Public Enterprises (SCOPE) organized a 'Health Talk cum Health Screening Camp' at SCOPE Convention Centre, SCOPE Complex, New Delhi on 19<sup>th</sup> April, 2024.

Shri Atul Sobti, DG, SCOPE; Shri Siba Prasad Mohanty, CMD, HURL addressed the participants

and Dr. Puneet Girdhar, Principal Director & HoD - Spine Surgery, BLK-Max Hospital delivered a Health Talk on 'Lifestyle Modification to Prevent Lower Back Pain.'

The health screening camp comprising of Eye Check-up by a team of Dr. Shroff Charity Eye Hospital, Consultation by Spine Specialist from BLK Max Hospital

and various health check-ups were organized as part of the event. Employees from various PSEs attended the health talk and availed the benefit of the Health Screening Camp.

The health talk was organized in association with Dr. Reddy's Foundation for Health Education, as part of SCOPE's month-long Public Sector Day celebrations.



# Snippets of Health Talk cum Health Screening Camp





# Feedback/Comments received for various events of SCOPE's Public Sector Day celebrations

Experience Sharing:

All arrangement is excellent,  
Special thanks for DG SCOPE.

Experience Sharing:

Overall experience has been amazing  
Had lots of fun. It was great to participate  
in such an event with different PSOs.



Experience Sharing:

Coordination Team's job is very good  
Excellent arrangement by SCOPE. Thanks for  
DG SCOPE for this initiative.

Experience Sharing:

Great event. Pl continue for coming yrs.

Suggestions for further improving SCOPE Premier League:

Bottom court may be the indoor one.

Any Other Feedback:

Just WOW! Love to come again & again.



Suggestions for further improving SCOPE Premier League:

Should be conducted every year & more  
Should be for TT doubles / mixed doubles too





# Feedback/Comments received for various events of SCOPE's Public Sector Day celebrations

### Experience Sharing:

Had a nice experience playing SCOPE Premier League. Friendly matches like this should be conducted frequently!

### Suggestions for further improving SCOPE Premier League:

Would request to kindly conduct Doubles and Mixed Doubles matches in Table Tennis

### Any Other Feedback:

The tournament should be held quarterly or bi-annually so as to encourage sports amongst executives in the PSB. Also requesting to conduct quiz on HR, Labour Laws along other subject in future. It will help to increase knowledge.

SCOPE Premier League: 20<sup>th</sup>-21<sup>st</sup> April, 2024



### Experience Sharing:

Keep organizing these kinds matches

### Suggestions for further improving SCOPE Premier League:

Quarterly again

### Any Other Feedback:

Keep up the good work.



### Experience Sharing:

All Good

### Suggestions for further improving SCOPE Premier League:

All Good



Feedback

May have regional rounds first, then can have a national round at Delhi



## Interface with Stakeholders



DG, SCOPE presented 'Proceedings of National Meet on RTI Act organised by SCOPE in Shillong' to Shri Heeralal Samariya, Chief Information Commissioner, CIC at his office.



DG, SCOPE presents SCOPE plaque to Shri Amarendu Prakash, Chairman, SAIL.



DG, SCOPE meets Shri Adil Zainulbhai, Chairman, Capacity Building Commission at SCOPE Complex in New Delhi.



DG, SCOPE calls on Smt. Archana Agrawal, Member Secretary, National Capital Region Planning Board at her office in New Delhi.



A meeting of Council of Indian Employers at SCOPE Complex. (L-R) Shri Arvind Francis, Secretary (Coordination), CIE; Shri Jasbir Singh, Vice President, AIOE; Shri Atul Sobti, DG, SCOPE; Shri Alok B. Shriram, President, AIOE; Shri Rajeev Dubey, Member ILO GB and Shri Sougata Roy Choudhury, DG, EFI during the meeting.



# SCOPE organizes Fire Service Week



SCOPE organized Fire Service Week on the theme 'Ensure Fire Safety to contribute towards nation building' from 14<sup>th</sup> to 20<sup>th</sup> April, 2024 at SCOPE Minar, Laxmi Nagar. Fire & Safety drill was conducted as part of these celebrations.

## Personalia



**Shri Nilendu Kumar Singh**  
takes charge as  
CMD,  
Central Coalfields Limited



**Shri Santosh Kumar Jha**  
assumes charge as  
CMD,  
Konkan Railway Corporation Ltd.



**Shri Gurudutta Ray**  
assumes addl. charge as  
CMD,  
Yantra India Ltd.



**Shri Bikram Ghosh**  
takes charge as  
Director (Finance),  
Western Coalfields Limited



**Sri Ch SRV GK Ganesh**  
assumes charge as  
Director (Finance),  
RINL





## Special Feature on Viksit Bharat

# Contribution of POWERGRID towards Viksit Bharat@2047



## Power Transmission

The transmission system is crucial for delivering power to consumers as it links generating stations to the distribution system. However, energy sources such as coal, hydro, and renewables are not evenly distributed across India. Coal is mostly found in the central and eastern regions, while hydro resources are primarily located in the northern and north-eastern Himalayan Range. On the other hand, states like Tamil Nadu, Andhra Pradesh, Karnataka, Rajasthan, Maharastra, Gujarat, and Ladakh have abundant renewable resources such as wind and solar. The major consumption centers in the country are in the central, northern, western, and southern regions. To address this uneven distribution of resources, a robust transmission system was developed, including inter-regional corridors, to transfer power from surplus to deficit areas. This system allows access to power generation from any part of the country to consumers all over.

## POWERGRID Overview

Power Grid Corporation of

India Limited (POWERGRID) is a Schedule 'A', 'Maharatna' Public Sector Enterprise of the Indian government, established on October 23rd, 1989 under the Company Act of 1956. It is a publicly traded company with 51.34% of the shares owned by the government and the rest by institutional investors and the public.

POWERGRID is involved in transmitting power through its AC and DC transmission network operating at Extra High Voltage levels of (765/400/220/132kV) and ( $\pm 800/\pm 500/\pm 320$  kV) respectively. As one of the largest transmission utilities in the world, POWERGRID is making a significant contribution to the development of the Indian power sector and has demonstrated its ability to execute large and critical transmission projects efficiently.

As of 31st March 2024, POWERGRID operates a transmission network of around 1,77,699 circuit kilometers (ckm) of transmission lines (primarily 400 kV & above AC and HVDC lines) and a power transformation capacity of around 5,27,446 Mega Volt Amperes (MVA) with 278 substations spread across the country.

## Operational Performance

POWERGRID's operational performance is centered around reliability, strategic foresight and a commitment to cutting-edge technology. POWERGRID maintains transmission system availability above 99% on a regular basis.

For increased efficiency and transparency in operation of POWERGRID transmission system, transmission assets are being remotely monitored & operated from remote control centers i.e NTAMC/RTAMCs. As on 31st March 2024, POWERGRID is operating all its 278 substations remotely through control centers. For increased efficiency and transparency in operation of POWERGRID transmission system, transmission assets are being remotely monitored & operated from remote control centers i.e NTAMC/RTAMCs.

## Major Highlights

- 132 kV, 20 MVAR Bus Reactor at Aizawl was retrofitted with eco-friendly Natural Ester Oil by replacing conventional insulating oils.
- POWERGRID is diligently working towards making

its asset management practices compliant to ISO 55001, thus demonstrating a robust framework for strategic decision-making and sustainable value creation.

- POWERGRID has successfully implemented Reliability Centered Maintenance (RCM) practices for its critical assets, including Transformers, Reactors, and Transmission Lines. It will lead to significant 25% reduction in man-hours spent on maintenance activities.
- POWERGRID has established Centre of Excellence (CoE)-Protection & SCADA to manage & validate the database of around 36,000 IEDs and 190 SAS gateways, to ensure uniformity of settings/configurations and resolution of issues from centralized location.
- International Transmission Operation and Maintenance Study (ITOMS), a global Operations & Maintenance (O&M) benchmarking platform has ranked POWERGRID in the first quadrant for low cost with high performance levels in asset maintenance.
- International Transmission Asset Management Study (ITAMS) 2021-22: POWERGRID emerged as the transmission utility with best operational performance including both Technical and Financial Parameters.

### Digital Initiatives of Asset Management

- In-house development of AI/ML based defect identification tool POWERGRID Asset Management through Artificial Intelligence in Transmission

(PG AMRIT) which has been integrated with transmission line patrolling platform POWERGRID

Digital Application for Routine Patrolling & Assessment of Network (PG-DARPAN). This has aided in optimizing the efforts of line maintenance manpower and move the focus from defect identification to defect rectification.

- Implementation of Asset Management Dashboard (UDAAN-Unique Digital Analysis of Asset and Network) to ensure a single window access to all the key performance indicators (KPIs) by integrating data stored in various formats.
- Intelligent Inspection in POWERGRID (I2P) module utilizes QR codes enabled resulting in efficient daily, monthly, quarterly, and half-yearly inspections of substation equipment. The module also provides analytics for comprehensive asset assessment, addressing issues like erroneous readings and lack of real-time information for on-site teams.
- POWERGRID has embraced the transformative potential of 3D printing technology to enhance its Operations and Maintenance (O&M) performance. This innovative technology has been leveraged to develop 11 Pressure Relief Devices (PRD) at the HVDC Vizag Substation. By incorporating 3D printing in the development of PRDs, POWERGRID not only ensures a tailored and optimized solution for its specific needs but also demonstrates a

forward-thinking approach to technology adoption in the power sector.

- POWERGRID has successfully conducted drone-based patrolling of transmission lines, covering an impressive 900 kilometers. This initiative demonstrates POWERGRID's commitment to leveraging cutting-edge technology for the reliable and secure operation of its transmission infrastructure.

### Steps Towards Integration of Renewable Energy and Sustainable Initiatives

India has envisaged to augment the non-fossil fuel based installed electricity generation capacity to over 500 GW by 2030. At present, about 180 GW of non-fossil fuel generation capacity (including large hydro) is already integrated into the grid at various voltage levels.

POWERGRID has implemented / implementing transmission evacuation system of more than 48 GW of non-fossil energy capacities.

POWERGRID has implemented inter State transmission system (ISTS) in eight (8) RE resource rich states comprising 3200 circuit km of transmission lines, 17,000 MVA of transformation capacity and 6 EHV sub-stations. This transmission scheme has facilitated integration of about 6 GW of renewable energy generation capacity under Green Energy Corridors (GEC).

POWERGRID has implemented Transmission scheme for seven (7) solar parks facilitating evacuation of about 6.5 GW of renewable energy. Further, POWERGRID

has implemented Transmission System for Solar Energy Zones in Rajasthan – Phase-I: for transfer of about 8.9 GW power from various Solar based generation projects in Rajasthan.

Further, POWERGRID has implemented Renewable Energy Management Centers (REMCs)/EMCs at 13 locations, to address forecasting and scheduling of RE generation.

POWERGRID is actively promoting sustainability by aligning its initiatives with the Government of India. The principles of Environment, Social and Governance (ESG) are being embedded by your Company into business operations and the Company continues to attach importance to ESG ecosystem. The company has set goals of Net Zero by 2047, Water positive by 2030 and Zero waste to land fill by 2030. POWERGRID also aims to consume 50% of its electricity from renewable sources by 2025 and plans to achieve this through large-scale solar PV plants and rooftop Solar PV.

Installation of 8.7 MWp rooftop solar PV systems at more than 110 locations is complete and about 10.1 MWp Projects are under implementation/planning.

POWERGRID's first large-scale commercial project for the establishment of 85 MW Solar PV project at Nagda is under development and is likely to be commissioned in June 2024. In addition, a DPR for 82 MW at Jabalpur, Wardha, Aurangabad, and Khammam Substations has also been initiated for approval. Further, preparatory work for

another 100 MW Solar PV Power Plants at various locations is under process.

To reduce its carbon footprint, the company is implementing several initiatives including the development of digital substations, exploring alternatives to SF6 gas, replacing conventional insulating oils with environment friendly natural Ester oil, massive plantations with suitable indigenous species, and the use of e-carts in place of traditional vehicles.

POWERGRID has commissioned its first greenfield digital 220/66kV substation at Chandigarh. With this, company has joined elite league of utilities worldwide who have achieved commercial implementation of Process Bus based Digital Substation. Further, construction of green field 400 kV Digital Substation at Navsari, Gujarat is under progress.

## Technology Development

To establish an efficient, reliable, and secure transmission system in India, the latest technologies such as HVDC systems, Voltage Source Converter HVDC, Gas Insulated Switchgear (GIS) substations, and Flexible AC Transmission System (FACTS) devices like STATCOM and SVC are being adopted extensively. India has accomplished several technological milestones, including Asia's first multi-terminal  $\pm 800$  kV 6000 MW HVDC to harness renewable energy from the North-East and Bhutan, and the country's first +320 kV 2000 MW VSC HVDC system commissioned between Tamil Nadu and Kerala.

## Key highlights:

- **Global Recognition:** Our Protection Automation and Control laboratory earned UCAIug Accreditation for IEC 61850 Conformance Testing, positioning us as one of the only three organizations in India with this prestigious distinction.
- **AI-powered Asset Management:** In collaboration with IIT Kanpur, we are developing a Substation Inspection Robot, leveraging AI/ML for data-driven decision making and efficient asset management.
- **Enhanced Safety:** We championed innovation in safety solutions by introducing Resin Impregnated Paper bushings for 765kV line reactors, ensuring safe operation.
- **Electromagnetic Field Measurements:** Demonstrating our commitment to environmental responsibility, we conducted extensive Electro-Magnetic Field measurements on transmission lines, with results available publicly and confirmed by third-party validation.
- **Pioneering Offshore Wind Power:** As India's first mover in offshore wind power evacuation, we signed an MoU with the National Institute of Oceanography and collaborated with IIT Madras to develop technical specifications and facilitate project development.
- **New Business Horizons:** Exploring new frontiers, we evaluated the Green Hydrogen market and conducted preliminary feasibility studies

for a pilot project on blending it with PNG in city gas distribution.

- **Grid Modernization Tools:** POWERGRID engineers developed the STATCOM Generic Model in PSCAD & PSSE, enhancing dynamic simulation capabilities for improved power system management.
- **Advanced Diagnostics:** Pioneering a first-of-its-kind initiative, we established the early-stage insulation paper ageing detection facility based on Methanol at POWERGRID Advanced Research and Technology Centre (PARTeC).
- **Sustainable Initiatives:** Collaborating with IIT Kanpur, we are developing nano material-based superhydrophobic self-cleaning coatings to reduce insulator maintenance, promoting sustainability.

## Corporate Social Responsibility

POWERGRID is working to enhance the quality of life for people through its Corporate Social Responsibility (CSR) initiatives in the areas of healthcare, education, rural development, skill development, sanitation, drinking water, and environmental sustainability, as required by the Companies Act 2013.

The company has allocated INR 342.69 Cr. for its CSR activities in FY 2023-24, with a major focus on education, healthcare and nutrition, rural development, sanitation and drinking water and skill development.

From constructing hospitals to providing medical equipment and disaster relief, POWERGRID's CSR initiatives weave a diverse tapestry of support across India. Rural communities benefit from integrated watershed management and school development, while urban initiatives revitalize public spaces and equip vital services. Every CSR project reflects POWERGRID's commitment to improving lives and enriching communities, demonstrating the multifaceted impact of their social responsibility efforts.

## Contribution Towards Viksit Bharat@2047

### VSC Based HVDC System

POWERGRID commissioned 320kV Pugulur –Thrissur HVDC System, which is based on Voltage Source Converter (VSC) technology, used first time in India. VSC Technology enables safe and reliable transmission of Power with reduces Losses.

## One Nation –One Grid-One Frequency

A strong and vibrant National Grid has been established in the country and is being further augmented / strengthened continuously to facilitate growing power transmission requirement with reliability. Envisaged Dream of 'ONE NATION'-'ONE GRID'-'ONE FREQUENCY' was realised in 2013 with the commissioning of 765kV Raichur-Solapur Transmission line. Synchronization of all regional grids helps in optimal utilization of scarce natural resources by transfer of Power from Resource

centric regions to Load centric regions.

National grid has now become one of the largest synchronous interconnected grids in the World. It is equipped with state-of-the-art technologies such as 800kV HVDC system; Flexible AC Transmission System (FACTS) devices such as series capacitors, Static VAR Compensator (SVC), STATCOM; High Temperature Low Sag Conductors; Gas insulated Switchgear S/s etc.

## Establishment of Green Energy Corridors (GEC) and Renewable Energy Management Centres (REMCS):

POWERGRID played a pivotal role in establishment of transmission infrastructure for integration of Renewable Energy Zones (REZs) in India. In last 6-7 years, POWERGRID has implemented transmission system for evacuation of about 21.4 GW of renewable power involving investment of about USD 1.9 Billion (Green Energy Corridors).

In addition to transmission infrastructure, 11 nos. of REMCS comprising RE forecasting & RE scheduling systems, integrated with existing SCADA at SLDC/RLDC/NLDC have been established in February 2020. Further, one new REMC at Telangana & one EMC at South Andaman have also been commissioned in February 2022. With this, 13 REMCS/EMCs are now operational.

## National Transmission Asset Management Centre:

POWERGRID has established

a World Class NTAMC for centralized control of entire transmission system of POWERGRID from single point with fully automated remote-controlled substations. More than 90% EHV Substations of POWERGRID have been integrated and are under remote operation from NTAMC/RTAMC and remaining substations are progressively being integrated.

NTAMC has been set up at Manesar, near Gurugram, Haryana and RTAMCs at various locations across the country.

#### MAKE IN INDIA

POWERGRID has promoted local sourcing for its transmission system development and operations through various initiatives. As a result, many foreign manufacturers have set up new plants and facilities in India to produce equipment such as GIS, transformers, reactors, STATCOM, and OPGW, leading to a larger vendor base and improved supply chain efficiency. The company is striving to enhance its vendor base by supporting local suppliers, MSE firms, and existing vendors, and is committed to advancing the Make in India initiative.

#### Promotion of Msme:

POWERGRID has aligned its policies with the government's efforts to promote MSMEs and is registered on all three TReDS platforms (RXIL, M1xchange, and Invoicemart).

It has included provisions in its bidding documents for procurement from Micro and Small Enterprises (MSEs) in

accordance with the Public Procurement Policy. The company exceeded its target of mandatory procurement of 25% from MSEs with procurement worth ₹898 crore in 2023-24. POWERGRID also runs Vendor Development Programs for MSMEs to support them and include them in the development of the transmission system.

#### Successful Implementation of "Vivad Se Vishwas I- Relief For Msmes" Scheme:

POWERGRID received 286 claims under "Vivad Se Vishwas I- Relief for MSMEs" scheme on GeM portal. Under this scheme relief was provided to all the MSME contractors, for the difficulties faced due to the COVID-19 pandemic, by refunding of 95% of the performance security/EMD forfeited, Liquidated Damages deducted, risk purchase amount realized and by revoking debarment for all the eligible claims as per the scheme. All the eligible claims have been resolved and settled on GeM portal by POWERGRID.

#### Atmanirbhar Bharat Abhiyan

POWERGRID prioritizes domestic participation and primarily procures through Domestic Competitive Bidding, where only Indian bidders are eligible to participate.

The company places significant emphasis on indigenous sourcing and strengthening the capacity for equipment and materials in line with the Indian government's "Atmanirbhar Bharat" initiative.

#### Digital India

POWERGRID has utilized its extensive power transmission network by creating a nationwide telecom network of over 1,00,000 km with Points of Presence, including remote locations like Leh, Ladakh, and NER. This extensive and reliable telecom network has been beneficial to its stakeholders over the years and has partnered with the Government of India's Digital India initiative through its National Knowledge Network (NKN) and Bharat Net projects, while also providing telecom services to major telecom providers, government departments and organizations, OTT providers, internet service providers, and global enterprises.

National Knowledge Network is a government project connecting all knowledge centers across India, with POWERGRID being one of the executing agencies.

POWERGRID is executing the first phase of the Bharat Net project, a part of the government's Digital India initiative to connect 250,000 Gram Panchayats with broadband, in five states: Andhra Pradesh, Telangana, Himachal Pradesh, Jharkhand, and Odisha.

Furthermore, POWERGRID has created a solution for using its power transmission towers to mount mobile BTS and radio transmission systems, antennas, etc., along with fiber connectivity and reliable power supply. This solution will benefit telecom service providers by providing reliable and safe power supply, fiberized tower infrastructure, and antenna/BTS mounting, which will enhance 4G, 5G, and other services across the country.



# The Art of Giving Back: Employee Volunteering in CSR Activities Transforming Lives



**Shruti S Palan**  
Assistant Manager  
CSR, HPCL

In the realm of corporate social responsibility (CSR), the art of giving back takes centre stage as employees of our company actively engage in volunteer initiatives, leaving an enduring impact on the community. Focusing on key areas such as healthcare, education and innovative employment programs in prisons, these employees epitomize the transformative power of volunteering. This article delves into their dedicated efforts, linking the idea of volunteering in social work to the profound art of giving.

## Healthcare Initiatives: Compassion in Action

Our employees understand that healthcare is a fundamental right, not a privilege. Volunteering in healthcare initiatives allows them

to directly impact the lives of those in need. From participating in medical camps to supporting awareness campaigns, these individuals embody the art of giving through the selfless provision of time and expertise. The act of volunteering becomes a canvas for compassion in action, with employees making a tangible difference in the well-being of the community.

## Education: Empowering Minds, One Volunteer at a Time

Recognizing the transformative potential of education, our employees channel their passion into volunteering for initiatives that empower minds. Whether it's mentoring programs, infrastructure development in schools, or supporting

educational outreach, these individuals actively contribute to breaking down barriers to learning. The art of giving is exemplified as employees become catalysts for change, fostering an environment where knowledge is seen as a powerful tool for societal transformation.

## Livelihood Support in Prisons: A Path to Rehabilitation

Our employees extend their volunteering efforts into unique and impactful areas, such as employment livelihood support programs in prisons. Recognizing the importance of providing





opportunities for rehabilitation and reintegration, they actively engage in skill development, and support programs within correctional facilities. The art of giving in this context is a commitment to fostering second chances, believing in the potential for positive change in every individual, regardless of past circumstances.

### Linking Volunteering to the Art of Giving

At the heart of employee volunteering lies the art of giving – a holistic expression of empathy, generosity, and a genuine desire to make a positive impact. By actively participating in CSR activities, employees move beyond mere contributions,

embracing a deeper connection to the communities they serve. The art of giving is evident not only in the tangible results of their efforts but also in the personal growth and fulfilment they experience through their volunteer work.

### The Ripple Effect: A Transformative Corporate Culture

The impact of employee volunteering extends far beyond the immediate beneficiaries, creating a ripple effect within our corporate culture. As employees actively engage in CSR Activities, they inspire their colleagues, fostering a collective sense of purpose. The art of giving becomes a driving force, shaping a corporate culture that values

social responsibility and actively seeks opportunities to make a positive impact on the world.

### Conclusion

In the tapestry of corporate social responsibility, the art of giving back through employee volunteering emerges as a powerful thread, weaving together compassion, empowerment, and transformation. The employees of our company, through their dedicated efforts exemplify the profound impact that volunteering can have on individuals and communities alike. As we celebrate the art of giving, we recognize that the true measure of success lies not just in business achievements but in the positive change we collectively create in the world.



# Management Lessons from Mahabharat- Part- IV



**Debasis Satapathy**  
CGM ( HR),  
NBCC (India) Ltd.

## INTRODUCTION

Exploring the Mahabharata, an ancient Indian epic, reveals a series of management lessons relevant to contemporary organizational dynamics. At its core, the Mahabharata is a saga of conflict and resolution, of power struggles and moral dilemmas, mirroring the challenges faced by modern leaders. One of the most prominent lessons emerges from the character of Krishna, who epitomizes strategic thinking and effective decision-making. His counsel to Arjuna on the battlefield, summarized in the Bhagavad Gita, exemplifies the importance of clarity, focus, and resilience in leadership. Moreover, the epic presents an array of characters, each with distinct personalities and leadership styles, offering varieties of perspectives on team dynamics and interpersonal relationships. From the wise counsel of Bhishma to the visionary leadership of Yudhishtira, and the shrewd diplomacy of Krishna, the Mahabharata showcases diverse approaches to management and governance. Furthermore, the Mahabharata delves into the ethical dimensions of leadership, illustrating the consequences of moral compromise and the enduring value of integrity. Through its intricate narratives and profound philosophical discourses, the epic serves as



a timeless guide for leaders navigating the complexities of organizational life. By drawing parallels between the challenges faced by its characters and those encountered in contemporary business environments, we gather invaluable insights into effective management strategies rooted in timeless wisdom."

## Competencies are Eternal

**Epic** – In the battle field, while mentoring and counseling Arjuna, Krishna said “be free from all doubts of killing and being killed”. Only those who are born can die. The soul is beyond time. The body is born and not the soul. If the soul is not born, how can it die? The soul persists. That’s all. It spans time from end to end. It is unborn, eternal and holy. It is indestructive. So do

not worry about killing or being killed. Only the body dies, and even after death, the soul does not die. Weapons cannot kill it, fire cannot burn it, water cannot dissolve it and wind cannot dry it. नैनं छिन्दन्ति शस्त्राणि नैनं दहति पावकः। न चौरं क्लेदयन्त्यापो न शोषयति मारुतः.

**Management lesson** – Like a soul, Superior competencies of a professional are eternal. These competencies do not die when a professional moves from one organization to another. They do not fade away when a professional gets sacked or fired by an organization. They are like a soul which can never be destroyed by an employer nor can they be taken away by peers. They shine like Dimond wherever the professional moves. The fragrance of these differentiating superior competencies fades away from the previous organization and

noticed in the new organization. Hence a professional having strength of superior competencies should never be too disheartened when he loses employment in one organization, since his skill sets are eternal and has immense value where ever he moves.

### Professional attachment with detachment

**Epic**– In the battle field, while mentoring and counseling Arjuna, Krishna asked “why are you worried? Arjun asked, “Oh Krishna! Do I call a soul as my grandfather? Is my affection merely towards a soul? Is that white clad elderly man just a soul? Did not the body which you call the soul’s clothing have come to bless me many times? Is the sage who taught me archery skill merely a soul? Oh Krishna, I do not deny the souls are holy and indestructible? But I am talking about body. Am I not related to these bodies? Souls are not born but surely people are.” Krishna replied “yes of course people are born, but people those who are born would eventually die. Then why grieve for the predestined? Those who are born would die. But this death is not the end, since they would reborn. This is unshakable truth and no one can avoid it. Not me. Not you. Nobody. Bhishma has the boon of wishful death, but death is still inevitable for him as well. In this cycle of birth, death and rebirth, where is the place for grievance?

**Management lesson** – Getting emotionally attached to the current organization, reporting manager, colleagues and reportees is good. However too much emotional attachment is not desirable, since separation with them is inevitable. Separation will certainly happen through superannuation, or voluntary

or involuntary attrition, job rotation, transfer or could be demise. This is written on the wall. Like a soul gets a new body, a professional enters into a new organization or role and gets a new set of colleagues who could be his new reporting manager, peer or reportee. Hence separation of a professional from the organization or role is predestined, predetermined, inevitable, unavoidable and a truth of life. It could be sooner or later. Some professionals stick to one organization or one role for the entire career like a soul is with a body for a quite long time, whereas some professionals change the organization or role like a soul changes the body after a time interval. Hence grief has limited space in the emotion of a true professional. One should be thankful for their time of togetherness and move on happily.

### KRA with business alignment

**Epic** – In the battle field, Arjun asked to Krishna, how is action without desire is possible? Reward motivates action. Without reward who will act? Krishna said, life is impossible without action. You will do something. You will either wage a war or not? You have the option to do something or not. However, the result or the reward of your action is not in your hands. This is beyond your control. Even if you wage a war, the result is not in your control. Even if you desire victory, it may not be yours. You could also loose. Your desire to win will make you fear defeat. If you are indifferent to victory & defeat and you fight the war as your duty, then there will be no question of happiness or sorrow. Such a person without desire is

unperturbed (Stithapragyan). Hence shed away desire for reward. Do what is within your control, which means your duty. This is called Karma yoga.

**Management Lesson** – Bhagavad Gita says, Karma Yogi is that person who does good to the whole world & loves the whole world selflessly . Karma Yogi follows the path of righteousness, accepting destiny as it comes. In the business context, a professional need to focus on Karma for which he is being hired for. The karma is being defined in the form of job description, job analysis & job specifications. These fundamentals set the tone for defining KRA/KPI/Goal setting/MOU, which are known as Key Result Areas/Key Performance Indicators & Memorandum of Understanding. KRA comprises of a set of actions that are critical for an organization or for an employee having business alignment. Hence a professional need to aim for accomplishing all the deliverables assigned to him irrespective of whether the end result would materialize or not. Focus should be like Arjuna, who aimed for excellence. He is a Karma yogi when he not only keeps track of his KRAs, but also aligns all his actions to the ultimate objective of the organization. It is said that the more you give, the more you will get. Similarly, the more a professional delivers with organizational alignment, the more he gets in return, which could be in the form of reward & recognition. Hence performance brings reward & reward brings performance and this becomes a cycle. When the work is being delivered as worship, it is transformed from karma into yoga and a professional becomes a Karma Yogi.

## Four यज्ञः: of a professional

**Epic** – Arjun asked Krishna while being mentored by him, what is Yagyan the ritual offering? Krishna said there are four types of ritual offerings (Yangyan). First is dravya Yagyan. When you use your wealth for the welfare of the society it is called dravya Yagyan. Second one is Tapo Yagyan. When a person makes his actions his penance, his life becomes Tapo Yagyan. Hey Arjun, following your religion is a kind of worship. But it is not religion based but it is eternal. It benefits the person as well as society. Third Yagyan is yoga Yagyan. It takes a person into meditation. The fourth one is the Gyana Yangya. All four Yagyans are important but the Gyana Yagyan is most important, since knowledge can distinguish between good and bad. The fire of knowledge can purify action. Knowledge brings focus and the essence of action. Knowledge frees you from bonds of temptation. Only thorough knowledge you can cross the sea of sins.

**Management Lesson**– The word yagya comprises of two words, 'yaj' and 'ya'. 'Yaj' means "worshipping or rendering service" and 'ya' means "whom". Therefore, yagya means: "Worshipping the Supreme lord" or "Rendering service to the Supreme Lord". A professional has four major actionable responsibilities. First he needs to spend a part of his earning for the society. This is giving back to the roots and called Personal Social Responsibility (PSR). This is द्रव्य-यज्ञः. Second Yagya is तपो-यज्ञः which refers to the commitment and dedication to his profession. Tapo means worship. Hence for the professional work is worship. For him, the assigned deliverables

are prime and supreme. Rests are secondary. Third Yagya is योग-यज्ञः. A professional need to maintain the highest level of concentration and be focused. Take care of his mental and physical health to be highly productive. The fourth Yagyan is ज्ञान-यज्ञः. A professional need to have superior domain knowledge and should sharpen the saw. This would enable him to differentiate between good and bad decision. It would also enable him in developing the competencies of adaptability, quality focused, resilience, result orientation, perseverance, proactiveness etc.

## Task vs. relationship-oriented leadership

**Epic** – In the battle field, while counseling Arjuna Krishna said, according to the warriors' code, you must fight whenever there is a war. Your duty is to fight the evil that is today standing in front of you fully armed. Arjuna asked Krishna, what is my duty and what is the truth?" Krishna in reply questioned Arjuna, "Who are you"? Arjuna replied, "I am Arjuna, disciple of Dronacharya". Krishna questioned next, "what else" to which Arjuna replied, I am a warrior. Krishna then said, you are Dronacharya's disciple, therefore a warrior; you are Kunti's son, therefore a warrior. You are a warrior in all senses and abiding by warriors' code is your sacred duty. Fighting injustice is the warrior's code and, at this crucial juncture, if you do not fight this righteous war, you will fail in your duty, lose your reputation and incur sin, your enemies and the whole world will call you an evil person, a sinner. The generations to come will call you a coward. Oh Arjuna, do not get confused with the questions of Life & Death, Gain & Loss, Victory & Defeat. If

you win you will get a kingdom and joyously rule it, and if you die, you will enjoy the bliss of heaven. Therefore, get up Arjuna and fight! You should accept Joy & Sorrow, Gain & Loss, Victory & Defeat with equanimity".

**Management Lesson** – A professional is expected to treat his duties & responsibilities as supreme. Personal relationship ideally should not come in the way of accomplishing the desired deliverables. A professional's Dharma is to do justice to the responsibilities that have been assigned to him. It is only then that he can justify the position that he holds as well as the compensation that he receives there from. The fundamental principle of a professional's key result area is that he must deliver whatever is good for the organization. For instance, he should not step back even if the circumstances warrant of him doing right sizing or smart sizing or restructuring the manpower. It is his sacred duty to stand up for moral values and to keep high the ethics as are demanded by corporate governance. There should be no hesitation in calling a spade a spade. Another important aspect for a professional is task vs. relationship orientation. It is pivotal for a task oriented professional to accomplish the desired goals, usually in a step-by-step and task by task fashion. Meeting deadlines is most crucial for accomplishing tasks as per schedules. Relationship-oriented leaders value building relationships with their employees who enjoy a vibe in the organisation. Ideally a professional, to excel, is required to maintain a balance between task-orientation and relationship orientation philosophies to uphold Righteousness while discharging his duties diligently.

# The Vedic Concept of Debts (Rin) and its Relevance to Corporate Social Responsibility (CSR): Bridging Ancient Wisdom with Modern Business Ethics



**Ajay Deep**  
General Manager (Vigilance),  
GAIL Gas Limited, Noida

*The best way to find yourself is to lose yourself in the service of others.*

- Mahatma Gandhi

## Introduction -

Corporate Social Responsibility (CSR) refers to the ethical framework and business approach that aims to contribute positively to society, beyond legal obligations and economic interests. It involves integrating social, environmental, and ethical concerns into business operations and interactions with stakeholders. Business ethics and social responsibility are closely related concepts that address how companies should conduct themselves.

Ancient Hindu philosophy says that basic objective of human life is to follow four Purusharthas as kama, artha, dharma and moksha. It is said in Taittiriya Sanhita and Shatpath Brahman that every human being is to be indebted in his life from five types of debts those are Deva Rin, Rishi Rin, Pitra Rin, Nri Rin and Bhuta Rin.

Just as individuals accumulate various forms of debt to society and nature throughout their lives, industries and corporations similarly benefit from resources and support provided by society

and the environment. Therefore, they too have a responsibility to repay these debts through sustainable and socially responsible practices.

It is believed that CSR concept has been brought from western countries. But, indeed it is a fact that soul of Corporate Social Responsibility (CSR) is in the DNA of Indians.

This article is an attempt to delve into the ancient Vedic concept of debts (Rin) as elucidated in ancient Indian scriptures such as the Vedas and Dharmashastras and examine its relevance in the context of modern corporate social responsibility frameworks. This article also explores how understanding and applying Vedic principles of Rin can contribute to fostering a more holistic and responsible approach to corporate conduct, encompassing not only financial obligations but also ethical, environmental, and societal responsibilities.

## Business Ethics and CSR -

**Business Ethics** are moral guidelines for the conduct of business based on notions of what is right, wrong and fair. Strong ethical business practices are a hallmark of a good company that

they want to build and maintain in their business. Company can build sound business practices by setting ethical examples, creating policies and procedures that govern the activities of business.

While there may be no single universally accepted definition of **Corporate Social Responsibility (CSR)**, each definition that currently exists underpins the impact that businesses have on society at large and the societal expectations of them. Some definitions are –

**Definition 1: Philip Kotler and Nancy Lee** define CSR as “a commitment to improve community well - being through discretionary business practices and contributions of corporate Resources.

**Definition 2: The EC (European Commission)** defines CSR as “the responsibility of enterprises for their impacts on society”. To completely meet their social responsibility, enterprises “should have in place a process to integrate social, environmental, ethical human rights and consumer concerns into their business operations and core strategy in close collaboration with their stakeholders”

While the definitions of CSR may differ, there are some common principles that underline CSR:

- CSR is a business imperative
- CSR is a link to sustainable development
- CSR is a way to manage business

### CSR and Vedic Debt (Rin) Theory -

Nowadays CSR (Corporate Social Responsibility) is a buzzing word in the company's and understood largely as a typical western concept based on western values. But it is neither a western concept nor a product of western values. But, the practice is essentially rooted in the Indian value system and references to it can be found in Vedic literature.

It is said that Brahma who was the creator, wrote the **Nitishastra (the book of knowledge)**, which laid down the laws of living, mentioning dharma, artha and kama as the cardinal values. Owing to these three subjects, this book was also called Trivarga. The objectives of dharma, artha and kama are to lead society to material progress, cultural development and general welfare of its diverse population. CSR is the manifestation of Dharma.

**Rig Veda** emphasizes the need for the wealthy to plant trees for the community as it would bring them glory in life and beyond. **Atharva Veda** says that one should procure wealth with one hundred hands and distribute it with one thousand hands. The **Yajur Veda** says that one should enjoy wealth with detachment, do not cling to it because it belongs to the public, it is not yours alone. The wealth, thus, should be used for social good. So, well - being

of all on the earth was the part of way of living and finally to get the Moksha.

Ancient Hindu philosophy has given the concept of the four **Purusharthas**, which were the basic objectives of human life – **dharma, artha, kama** and **moksha**. The purpose of four purusharthas was to ensure that people would not neglect their obligatory duties by becoming obsessed with particular desires that may lead to moral and social degeneration and destruction of values but to follow the way of Dharma. Dharma of human being is further elaborated in the Vedic Debt Theory.

It is said that each person born with debts and he must repay them in order to live a fulfilled and complete life. These debts are not a burden, but recognition and expression of gratitude for many gifts that we receive from a world often taken for granted.

It is similarly applied on the companies in a greater way because companies utilize more resources from nature and hire manpower to get work done. So, it is company's moral responsibility to give it back to nature as well as society.

According to the **Taittiriya Sanhita**, a child is born with three debts to repay in his or her lifetime which are –

- Deva rin (Debt towards the Deities)
- Pitra Rin (Parental Debt)
- Rishi rin (Debt towards Teachers/Sages)

Another ancient Hindu scripture, Shatpath Brahman, added two more debts which are,

- Nri Rin (Debt towards Human)

- Bhuta Rin (Debt towards Nature)

**Dev Rin** is our debt towards powers which control nature and gifted us with invaluable gifts of air, water, fire, food, vegetation etc. So, we need to honor them by looking after all these invaluable gifts and leaving them in a better state as compare to we received them.

Thus CSR initiatives of reducing air and water pollution, cleaning of lakes and water bodies etc are the activities which are repayment of Deva Rin. For example water conservation projects by Bajaj Auto, Project Jaldhar by GAIL, Swachh Bharat Abhiyan by various companies and Save Ganga, Yamuna projects.

**Rishi Rin** is our indebtedness towards our teachers, great Seers, sages, discoverers and inventors who have imparted knowledge and wisdom to the whole humanity and brought our civilization and culture at this stage. The debt may be repaid by disseminating the acquired knowledge/traditions, both in the realm of matter and spirit, to as many people as possible. For example creating universities, Skill development Institutes, Research Centers by Tata, Birla, Ambani, Shiv Nadar etc and remembering discoverers and inventors by celebrating their Birth Jayantis is a way to indebt from the Rishi Rin.

**Pitra Rin** is to indebted to our ancestors as they have propagated their lineage and are the cause of our birth. To repay this debt, we must take care of our parents in their old age, when they are infirm and need help.

GAIL Shaksham program to

care the elderly and differently abled, Infosys and Dabur centers for old age persons and day care center are the good examples of repayment of Pitra Rin.

**Nri Rin** or **Manushya rin** is that a person is indebted to humanity at large which can be repaid by treating others with respect and helping them by sharing our possessions with fellow human beings. One of its most popular form is Atithi-Satkar or i.e. hospitality even to a stranger. GAIL's Project Srijan, which was a post floods restoration and rehabilitation program of affected people in Uttarakhand, sponsoring the fee of education, old age homes etc are to indebt from Nri Rin.

**Bhuta Rin** is that a person is indebted to plants, animals and nature. Various activities like tree plantation, artificial nest for birds, animal health care and cattle ranch are kind of the repayment of Bhuta rin. For example GAIL Harit (Environment Related Initiatives), Go Green by HDFC etc.

So by various examples of CSR initiatives, we can see that almost all initiatives are in some way related with one of the five debts as per Vedic literature.

## Conclusion

The review of various literatures on CSR makes it evident that concept of CSR is not new.

This concept is created and followed by our ancestors. It becomes apparent that all CSR endeavors are essentially a modern interpretation of age-old principles, particularly the notion of repaying the five Vedic debts inherent to human existence: Rishi Rin, Deva Rin, Pitra Rin, Nri Rin, and Bhuta Rin.

As Companies take their resources from the nature, mother earth and society so, it is company's duty (Dharma) to give it back to nature, mother earth and society. Companies must repay their Rins (debts) for which they are indebted.

CSR is not a burden to any company but it will produce very positive impact in long term. Thus, companies should consider the interests of society by taking responsibility for the impact of their activities on customers, suppliers, employees, shareholders, communities and other stakeholders, as well as the environment. This is seen to extend beyond the statutory obligation to comply with legislation as organizations are voluntarily taking further steps to improve the quality of life for employees and their families as well as for the local community and society at large.

## References:

[1] Crowther, David and Guler Aras, *Corporate Social Responsibility*

[2] Kotler, Philip and Nancy Lee, *Corporate Social Responsibility: Doing the Most Good for Your Company and Your Cause*

[3] *Corporate Social Responsibility – Perceptions of Indian Business.* [www.csmworld.org/public/pdf/social\\_respons.pdf](http://www.csmworld.org/public/pdf/social_respons.pdf)

[4] *Corporate Social Responsibility - Issues and Challenges in India, IJRFEM Volume 3, Issue 2 (March 2013) (ISSN 2231-5985)*

[5] Archie B. Carroll and Kareem M. Shabana, *The Business Case for Corporate Social Responsibility: A Review of Concepts, Research and Practice*

[6] Dr. Mridula Goela \*, Ms. Preeti E. Ramanathan, *Business Ethics and Corporate Social Responsibility – Is there a dividing line?*

[7] Ms. Ruchi Khandelwala, Ms. Swarna Bakshib, *The New CSR Regulation in India: The Way Forward*

[8] Dr. Sukanya Ashokkumar, *Thoughts on Business Ethics and Corporate Social Responsibility from Vedic Literature*

[9] Milton Friedman, "The Social responsibility of business is to increase profits", *The Newyork Times Magazine*, Sept 13, 1970.

[10] A white paper on "Corporate Social Responsibility: Towards a sustainable future", KPMG in India

[11] [www.gailonline.com](http://www.gailonline.com)

[12] [http://hindudharmaforums.com/showthread.php?7548-Four-Types-of-Rin-\(Obligations-Debts\)](http://hindudharmaforums.com/showthread.php?7548-Four-Types-of-Rin-(Obligations-Debts))





# India's Climate Diplomacy: Balancing Development and Environmental Imperatives

## Introduction

As the world grapples with the urgent need for collective action to mitigate the impacts of climate change, India's role in climate diplomacy has become increasingly vital. Owing to vast population, rapidly expanding economy, and vulnerability to climate change related risks, India finds itself at the intersection of environmental stewardship and developmental imperatives. Despite navigating through a complex landscape of challenges, negotiations, and commitments, India has emerged as a key player in international climate negotiations. The evolution of India's climate diplomacy reflects a nuanced interplay of domestic priorities, global obligations, and geopolitical dynamics. From its early engagement with the United Nations Framework Convention on Climate Change (UNFCCC) to its pivotal role in the Paris Agreement negotiations, India's stance has evolved from one of cautious participation to proactive leadership. Over last few years, India's stance on climate actions has led it to perform better and achieve 7<sup>th</sup> position<sup>1</sup> in the Climate Change Performance Index 2024. It reflects India's sincere efforts to address climate change while balancing its developmental aspirations. From several national policies to forging partnerships with other

nations for driving innovation in climate change mitigation and adaptation methodologies, India's journey towards climate resilience offers valuable insights into the evolving dynamics of environmental governance. In this article, we delve into the intricacies of India's climate diplomacy and their evolution at both domestic and global stage, and the challenges it faces in navigating the complex terrain of international climate negotiations.

## Evolution of India's Climate Diplomacy and Commitments

India's stance on climate change negotiations has evolved significantly since the inception of international climate agreements. Initially, India emphasized an equitable principle of "common but differentiated responsibilities (CBDR)", arguing that developed nations, which historically contributed the most to greenhouse gas emissions, should bear the primary responsibility for addressing climate change. However, in recent years, India has adopted a more proactive approach to climate diplomacy, recognizing the urgency of the climate crisis and the need for collective action and for this India has transitioned to be recognized as a "conciliator" and a "bridging" nation. Since the

ratification of Paris Agreement (2015) is considered a milestone in global climate negotiations, we have taken it as reference point to highlight India's stance in form of their initiatives and policies before and after this historic agreement.

Before the Paris Agreement that brought nations together in a unified effort to combat climate change, India had been grappling with the intricate balance between economic growth and environmental sustainability. As one of the world's largest and developing country, India's approach to climate action has been shaped by its unique socio-economic context. Despite these challenges, India has taken significant strides towards addressing climate change through a range of initiatives at both domestic and international levels.

India stands out as one of the pioneering nations to enact the Energy Conservation Act in 2001 which was recently amended in August 2022 with the introduction of the Energy Conservation (Amendment) Bill 2022. The National Action Plan on Climate Change (NAPCC), launched in 2008, outlines comprehensive strategies for climate mitigation and adaptation in eight areas i.e., solar energy, energy efficiency, sustainable habitat, Himalayan ecosystem, sustainable

<sup>1</sup> <https://ccpi.org/country/ind/>

agriculture, green India, and strategic knowledge. In line with NAPCC, thirty-four states/union-territories prepared their State Action Plan on Climate Change (SAPCC) in 2009, outlining sector-specific and cross-sectoral climate actions. The Indian Network for Climate Change Assessment (INCCA) was launched in 2009 to enhance knowledge about the impacts of Climate Change at the national and subnational level. A National Clean Energy Fund (NCEF) was launched in 2010 for supporting national climate actions. Along with this, India's leadership in renewable energy deployment has been particularly noteworthy, with ambitious targets set for solar and wind power capacity expansion. The government's initiatives, such as the Jawaharlal Nehru National Solar Mission (2010) and the National Wind Energy Mission (2015) were launched, aiming to accelerate the transition towards a low-carbon economy and reduce dependence on fossil fuels.

Later, the Government had reconstituted the Prime Minister's Council on Climate Change (PMCCC) in 2014 (initially constituted in 2007) to evolve a coordinated response to issues relating to climate change at the national level. Then a central-sector Scheme titled "Climate Change Action Programme (CCAP)" was launched in 2014 with objectives of building and supporting capacity at the central and the state levels for assessing Climate Change impacts and simultaneously a National Adaptation Fund on Climate Change (NAFCC) were launched in 2015.

India has been a significant gainer from the Clean Development Mechanism (CDM). The CDM is one of the "flexibility

mechanisms" defined in the Kyoto Protocol. This flexibility mechanisms were designed to allow Annex B countries to meet their emission reduction commitments with reduced impact on their economies. The CDM allows a country with an emission-reduction commitment to implement an emission-reduction project in developing countries which can earn saleable Certified Emission-Reduction (CER) credits. By the year 2014, a total of 1541 (out of 7589 projects) registered by the CDM Executive Board were from India.

India has played a pivotal role in shaping the international climate agenda highlighting the "climate justice" since the inception of climate change negotiations in the Rio Earth Summit of 1992.

**India in Conference of Parties (COPs):** Since the inception of the Conference of the Parties (COP) in 1995 under the UNFCCC, India played an important role in representing the interests and perspectives of the developing and least developed countries and strongly advocated the principles of CBDR entrenched in the fact that developing countries have relatively negligible contributions to total cumulative emissions and have much lower per-capita emissions. Later, India pushed for climate finance, technology sharing, and establishment of an adaptation fund to accelerate climate action in developing countries and protect the least developed countries from the worst effects of climate change. The Intergovernmental Panel on Climate Change (IPCC) carries out important work on methodologies for estimating and reporting GHG emissions that lays foundation for climate change related negotiations at COP meetings. Under the

leadership of Rajendra Kumar Pachauri, the IPCC was awarded the Nobel Peace Prize in 2007 and delivered the Fifth Assessment Report, the scientific foundation of the Paris Agreement.

Since the landmark Paris Agreement, the global community has intensified its efforts to combat climate change and limit global warming to 1.5-2°C above pre-industrial levels. Amidst this collective endeavour, India, as one of the world's largest and fastest-growing economies, has assumed a critical role in shaping the trajectory of international climate action. In 2015, India and France jointly launched the International Solar Alliance (ISA) which is also the first treaty-based international government organization to be headquartered in India. India submitted its first nationally determined contributions (NDCs) in 2015 and achieved few of them before expected time and simultaneously updated its commitment in 2022 which also included national statements, encapsulated in the "Panchamrit" given by the Hon'ble PM Shri Narendra Modi at COP26 (2021) Summit in Glasgow that also included 2070 net zero target. The updated NDCs are as follows –

- Reduce emissions intensity of its GDP by 45 percent by 2030, from 2005 level
- Achieve about 50 percent cumulative electric power installed capacity from non-fossil fuel-based energy resources by 2030
- Create an additional carbon sink of 2.5 to 3 billion tonnes of CO<sub>2</sub>e through additional forest and tree cover by 2030
- Mobilize domestic and new & additional funds from developed countries

- Build capacities, create domestic framework and international architecture for quick diffusion of cutting-edge climate technology
- Better adapt to climate change by enhancing investments in development programmes in sectors vulnerable to climate change
- Adopt a climate friendly and a cleaner path
- Propagate a healthy and sustainable way of living through a mass movement for 'LIFE'– 'Lifestyle for

Environment'. Mission LiFE is an India-led global mass movement to nudge individual and community action to protect and preserve the environment.

Target (for 2030)	First NDC (2015)	Updated NDC (2022)	Progress
<b>Emissions intensity with respect to GDP relative to 2005</b>	Reduce carbon intensity of its economy by 33–35% compared to 2005 levels	Reduce the carbon intensity of its economy by at least 45% compared to 2005 levels	24% reduction achieved in 2016 itself. 33% reduction is achieved in 2019 <sup>2</sup>
<b>Non-fossil fuel-based electricity generation capacity</b>	Target to install 40% electricity generation capacity from non-fossil fuel-based energy resources	Target to install 50% electric power capacity from non-fossil fuel-based energy resources	43.81% cumulative electric power installed capacity by October 2023 <sup>3</sup>
<b>Renewable generation capacity</b>	Increase renewable generation capacity to 175 gigawatts (GW) by 2022, driven by solar growing to 100 GW.	Increase renewable generation capacity to 500 GW	India has installed capacity of 174 GW as of June 2023 <sup>4</sup>
<b>Carbon Sink</b>	Target of create an additional carbon sink of 2.5–3 billion metric tons of CO <sub>2</sub> equivalent through additional forest and tree cover	India reiterated its target to create an additional carbon sink of 2.5–3 billion metric tons of CO <sub>2</sub> equivalent (Same as earlier)	No data available

India has proactively initiated efforts to unite not only developing nations but also developed ones on a unified platform, aiming to foster collective climate leadership. These efforts include –

- Launch of the international coalition for Disaster-Resilient Infrastructure (CDRI) at the UN Secretary-General’s Climate Action Summit in New York in September 2019. Its mission

statement underscores that a significant portion, up to 66%, of public sector losses in recent weather and climate-related disasters are related with infrastructure damage.

- India with Swedish government co-chairs the Leadership Group for Industry Transition (LeadIT) since its establishment in 2019. LeadIT emphasizes on pivotal industries such as iron, steel, etc. and prioritize industry

transition and the exchange of knowledge. Further, India launched LeadIT 2.0 on the side-lines of COP28 in Dubai with a focus on inclusive and just industry transition.

- At COP 26 (2021), India launched new initiatives such as Infrastructure for Resilient Island States (IRIS) and Green Grids Initiative – One Sun One World One Grid (GGI-OSOWOG).

<sup>2</sup><https://pib.gov.in/PressReleaselframePage.aspx?PRID=1989495#:~:text=As%20on%2031st%20October,cumulative%20electric%20power%20installed%20capacity.>

<sup>3</sup><https://pib.gov.in/PressReleaselframePage.aspx?PRID=1989495#:~:text=As%20on%2031st%20October,cumulative%20electric%20power%20installed%20capacity.>

<sup>4</sup> <https://www.energypolicy.columbia.edu/cop28-assessing-indias-progress-against-climate-goals/>

- At COP27 in 2022, India unveiled the "Long-Term Low Emissions Development Strategy (LT-LEDS)" document, reaffirming its commitments.
- In September 2022, India established the Circular Economy Cell within NITI Aayog to provide dedicated focus to the Circular Economy Mission. India has also prioritized "Resource Efficiency and Circular Economy" as one of the three core themes for deliberations in the recent G-20 forum. At G20 meeting in India, the Global Biofuel Alliance was an important step towards more research and delivery of alternative energy sources for a world still dependent on fossil fuels.
- As India is expected to focus on climate finance, energy security and green hydrogen, pushing for the provision of finance and technology as critical enablers for achieving the Paris Agreement climate goals, India has recently launched National Green Hydrogen Mission in 2023 with an aim to make India a hub for manufacturing and use of green hydrogen.
- At the most recent COP28 (2023), India launched the Green Credit Initiative to create a participatory global platform for exchange of innovative environmental programs and instruments.

Several other initiatives and policies on climate action and sustainable development are on way as evident by India's investments in renewable energy, climate-resilient infrastructure, and adaptation measures. While India continues to advocate for an equitable global climate governance, recent climate actions from India are more holistic and align with changing negotiation

contours pushing for symmetrical treatment of developing and developed countries.

### Overcoming the challenges – way forward

India's developmental priorities and energy needs have posed significant challenges to its climate action efforts. With a growing population and rising energy demand, India has relied heavily on fossil fuels, particularly coal, to fuel its economic growth and meet its energy needs. The expansion of industries, transportation infrastructure, and urban centres has led to increased greenhouse gas emissions and environmental degradation, exacerbating the challenges posed by climate change. Balancing the need for economic development with environmental sustainability has remained a central dilemma for policymakers, who seek to uplift millions out of poverty while addressing the urgent threats posed by climate change.

The Global Climate Risk Index 2021 calls India the 7th most affected nation due to climate change. However, despite of these challenges and being home to more than 17% of the global population, India's per capita carbon emissions are significantly low at 2.29 tons compared to the global average of 6.3 tons. This comparatively low emission rate underscores India's proactive efforts in balancing economic development with environmental stewardship. This trajectory provides a solid foundation for India's climate diplomacy, showcasing its potential to spearhead innovative solutions that prioritize both prosperity and planet. Despite its commitment to climate action, India faces several challenges in addressing

climate change effectively. As a rapidly developing economy, India faces pressure to sustain its growth trajectory while simultaneously reducing greenhouse gas emissions and adapting to the impacts of climate change. Moreover, the country grapples with issues of energy access, poverty alleviation, and sustainable development, which further complicate its climate agenda. India's growing economy and population present unique challenges in reducing emissions while ensuring inclusive growth. Another challenge is securing adequate financial and technological support from developed countries to implement climate mitigation and adaptation measures. India requires substantial investments in renewable energy, infrastructure, and climate-resilient agriculture to transition to a low-carbon economy and enhance resilience to climate impacts. Negotiating equitable agreements in international forums amidst diverse national interests presents yet another technical challenge, necessitating adept diplomacy and strategic engagement. Despite the many ups and downs, India remains committed to advancing its climate agenda and contributing to global efforts to combat climate change. As India navigates the complex challenges of climate change, it remains committed to advancing sustainable development, prioritize climate action, promoting renewable energy, strengthen domestic climate policies, and enhance international cooperation to achieve global climate goals. By leveraging its diplomatic prowess and leadership, India can contribute significantly to shaping a more sustainable and resilient future for all.



## Hon'ble Prime Minister inaugurated GAIL's Barauni-Guwahati Natural Gas Pipeline



Hon'ble Prime Minister inaugurated GAIL's Barauni-Guwahati Natural Gas Pipeline in March, 2024 from Jorhat (Assam).

An important segment of the esteemed Pradhan Mantri Urja Ganga Project, the Barauni-Guwahati Pipeline was inaugurated by the Hon'ble Prime Minister, Shri Narendra Modi from Jorhat, Assam recently.

The Barauni-Guwahati Pipeline (BGPL) project, an integral part of Jagdishpur – Haldia & Bokaro – Dhamra Pipeline project, has connected North-East India with the National Gas Grid for the first time.

Spanning 718 km, this project, with an investment of approximately Rs. 3992 Crore, not only promises an enhanced throughput of 2.5 MMSCMD but also signifies socio-economic progress by connecting 3 states, 20 districts, and approximately 500 villages, generating about 15.8 Lakh man days of employment during construction. Notably, it includes

a 3.6 km HDD crossing of the Brahmaputra River, the longest at that time, and introduces 4 river crossings using the micro-tunneling technique for the first time by GAIL (India) Limited.

BGPL passes through six districts of Bihar (Begusarai, Khagaria, Madhepura, Purnia, Araria and Kishanganj), five districts of West Bengal (Uttar Dinajpur, Darjeeling, Jalpaiguri, Cooch Behar, Alipurduar) and nine districts of Assam (Kokrajhar, Chirang, Barpeta, Baksa, Nalbari, Kamrup, Darrang, Bongaigaon and Kamrup Metropolitan).

The 24-inch diameter pipeline has a capacity to transport around 2.5 MMSCMD of Natural Gas. The project will create vital infrastructure to supply Natural Gas, which is environment friendly and cost effective, to domestic households, industries, commercial units and

automobile sectors in the region, leading to more investments and employment generation.

BGPL is a unique Natural Gas Pipeline project in terms of application of technology. The topographical challenges encountered were diverse such as uneven land, hilly terrain, muddy turf and even deep water which were overcome efficiently by the GAIL team while meeting strict deadlines.

The pipeline passed across four rivers - Teesta, Raidak, Sankosh and Kanamakra - with wider width. The execution team worked with application of Micro Tunnelling, adopted for the first time in GAIL.

The mighty Brahmaputra river was crossed over a width of 3.6 km long riverine by adopting Horizontal Directional Drilling (HDD) process, besides two rigs intersection technique from both sides.

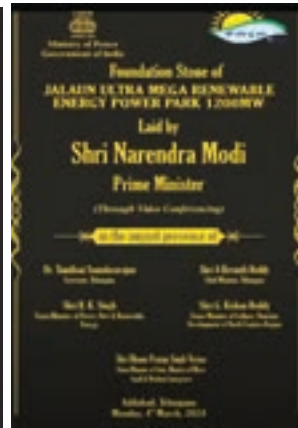
All mitigation measures were adopted to minimize environmental impact of deteriorating water quality, loss of top soil and vegetative cover along the route.

This project is the dedication to drive sustainable growth, provide connectivity to approximately 29 Lakh households and approximately 614 CNG stations across 31 districts in Bihar, Assam, and West Bengal, and ensuring a green future for India.

## Hon'ble Prime Minister inaugurates 380 MW Solar Project being implemented by NHPC as REIA and lays foundation stone of 1200 MW Jalaun Ultra Mega Renewable Energy Power Park of BSUL

The Hon'ble Prime Minister of India, Shri Narendra Modi inaugurated 380 MW Solar Project being implemented by NHPC as Renewable Energy Implementing Agency (located at Village Nimba & Magre ki Dhani, Jaisalmer District, Rajasthan) and also laid the foundation of 1200 MW Jalaun Ultra Mega Renewable Energy Power Park of BSUL (NHPC's JV with UPNEDA) in Adilabad, Telangana recently. These projects will provide a major thrust towards achieving the ambitious Renewable Energy capacity addition target of Government of India.

380 MW Solar Project has been developed by 'M/s Altra Xergi Power Private Limited' (SPV of M/s O2 Power SG Pvt Ltd) with latest state of art technology including high efficiency bifacial modules and with total investment outlay of Rs 2115 Crore. NHPC (the Renewable Energy Implementing Agency of MNRE) is procuring entire generated power from this project as an 'Intermediary Procurer' for sale to MPPMCL-Madhya Pradesh on back-to-back basis. Around 793 million units of green power will be generated each year from the project and Carbon dioxide emissions to the tune of 16 million metric tons will be offset by this project in its lifetime. The 1200 MW Jalaun Ultra Mega Renewable Energy



Shri Narendra Modi, Hon'ble Prime Minister inaugurating 380 MW Solar Power Project implemented by NHPC as REIA and laid foundation stone of 1200 MW Jalaun Ultra Mega Renewable Energy Park through video conferencing mode at Adilbad, Telengana.

Power Park of BSUL (NHPC's JV with UPNEDA) is being set up under Government of India Solar Park Scheme, Mode-8A (Ultra Mega Renewable Energy Power Park – UMREPP) with total investment of Rs. 796.96 crore. The park will generate about 2400 million units of electricity every year, which will help in reducing 432 lakh metric tonnes of carbon dioxide emissions over its 25 year lifespan.

The park will also help in development of State of Uttar Pradesh and create new employment opportunities for the people of the State and generate 7000 unskilled employment during construction phase and 700 employment opportunities during Operation & Maintenance phase. In this solar park, 12 power projects of 100 MW capacity are proposed to be constructed with

an investment of Rs. 5400 crore. Indian Railways also intended to purchase 1400 million units of electricity, which will strengthen the renewable energy portfolio of the Railways. The project will also boost up the development opportunities in the Bundelkhand area of Uttar Pradesh.

The function was also graced by Dr. Tamilisai Soundararajan, Hon'ble Governor, Telangana, Shri Anumula Revanth Reddy, Hon'ble Chief Minister of Telangana and Shri G. Kishan Reddy, Hon'ble Union Minister of Culture, Tourism & Development of North Eastern Region. Shri R.K. Singh, Hon'ble Union Minister of Power and New & Renewable Energy and Shri Kailash Choudhary, Member of Parliament, Barmer also graced the function through virtual mode.

## Hon'ble Prime Minister lays foundation stone/ ground breaking ceremony of 2880 MW Dibang Multipurpose Hydroelectric Project



Hon'ble Prime Minister, Shri Narendra Modi addressing the gathering after the foundation stone laying/ground breaking ceremony of NHPC's 2880 MW Dibang Multipurpose Project (Arunachal Pradesh) at Itanagar, Arunachal Pradesh recently.

The Hon'ble Prime Minister of India, Shri Narendra Modi laid the foundation stone/ground breaking ceremony of NHPC's 2880 MW Dibang Multipurpose Project (Arunachal Pradesh) recently at a function held at Itanagar, Arunachal Pradesh.

The function was also graced by Lt. Gen. Kaiwalya Trivikram Parnaik, Hon'ble Governor of Arunachal Pradesh, Shri Pema Khandu, Hon'ble Chief Minister of Arunachal Pradesh and Shri Chowna Mein, Hon'ble Deputy Chief Minister of Arunachal Pradesh.

The 2880 MW Dibang Multipurpose project is located near village Munli in Lower Dibang Valley District, Arunachal Pradesh. The project will have a

278 m High Dam which shall be the highest Concrete Gravity Dam of India. The Dam is planned to be constructed with Roller Compacted Concrete technique and as RCC Dam it will be the highest RCC Dam of the World. The Dibang Dam aims to place a peak of above 5 lakhs cubic meter of concrete in one month, which will be the first in the world.

The Project will annually generate 11223 MU (Million Units) of Hydropower, which is clean and green energy and will be fed into Northern Grid. The Project has a construction period of 108 months and is scheduled to be commissioned in Feb. 2032. The Project has potential of direct employment of 500 people during construction phase and 300 during operation. Further,

the Project will provide indirect employment of 5000 people during construction phase and 500 during operation phase.

The Project will entitle 12% Free Power and additional 1% free power for Local Area Development Fund for development of State. The project will enable the State and Country to achieve its journey towards Net Zero targets.

The Project is designed as a storage project with Flood moderation as one of the key objectives besides power generation.

For the purpose of Flood moderation, a capacity of 1282.60 MCM (Million Cubic Meters) will be created by keeping the reservoir below the FRL (Full Reservoir Level) in monsoon.

## Hon'ble Prime Minister inaugurates two flagship pipeline projects of OIL

**H**on'ble Prime Minister of India Shri Narendra Modi inaugurated two flagship pipeline projects of Oil India in a ceremony held at Jorhat, Assam recently.

OIL upgraded the pumping capacity of 756 km Barauni-Bongaigaon-Guwahati sector of its 1157 km long Naharkatiya-Barauni Crude Oil Pipeline upto 3 MMTPA, which would help in meeting supply of imported crude oil at Bongaigaon and Guwahati refinery. In another venture, the company replaced its 38 km pipeline from Duliajan to Digboi, equipped with new cathodic protection system and optical fibre communication-based network, which would facilitate capacity enhancement of Asia's oldest refinery - the Digboi refinery from 0.65 MMTPA to 1MMTPA.

Both projects were completed at a total Budgeted project cost of Rs. 623 Crore that would ensure safe, reliable and eco-friendly transportation of the hydrocarbon molecules. Following the clarion call of the Hon'ble Prime Minister on Aatmanirbhar Bharat, most of the machines and equipment used for the projects were indigenously manufactured that contributed towards progress of Indian manufacturing industry. Further, the projects generated employment of nearly 50,000 man-days for site construction works in the eastern states of Assam, West Bengal and Bihar.



Shri Narendra Modi, Hon'ble Prime Minister during the ceremony in Jorhat, Assam.

The event was graced by the presence of Hon'ble Chief Minister of Assam, Hon'ble Union Minister of Port, Shipping, Waterways and Ayush, Hon'ble Minister of State, Petroleum & Natural Gas and Labour & Employment, Hon'ble Member of Parliament, Guwahati along with senior dignitaries from MoPNG,

Chairman & Managing Director of OIL and senior officials from district administration, OIL and other PSUs. In his address, the Prime Minister expressed that these projects hold the potential to significantly bolster the socio-economic landscape of the state, fostering its overall development and prosperity.





## Hon'ble Union Minister of Finance and Corporate Affairs inaugurates "CITRA HEIGHTS" Residential Apartments for CBIC officials

Smt. Nirmala Sitharaman, Hon'ble Union Minister of Finance and Corporate Affairs virtually inaugurated "CITRA HEIGHTS" Residential Apartments at Dwarka, New Delhi for CBIC officials, constructed by NPCC a subsidiary of WAPCOS, in the presence of Shri Vivek Joshi, Secretary, DFS; Shri Sanjay Malhotra, Revenue Secretary and Shri Sanjay Agarwal, Chairman, CBIC. Shri R. K. Agrawal, CMD, WAPCOS & NPCC; Shri Anupam Mishra, Director (C&HRD); and other officials of NPCC were also present on this occasion.



Smt. Nirmala Sitharaman, Hon'ble Union Minister of Finance and Corporate Affairs virtually inaugurating "CITRA HEIGHTS" Residential Apartments for CBIC officials.

## Hon'ble Union Minister of Home Affairs inaugurates Office Buildings for NIA at Jammu and Kochi designed and developed by WAPCOS



Shri Amit Shah, Hon'ble Union Minister of Home Affairs inaugurating Office Buildings for National Investigation Agency at Jammu and Kochi virtually.

Shri Amit Shah, Hon'ble Union Minister of Home Affairs virtually inaugurated Office Buildings for National Investigation Agency at Jammu and Kochi. The event

was graced by Shri Ajay Kumar Bhalla, Home Secretary; Shri Dinkar Gupta, DG, NIA; Shri Tapan Deka, Director, Intelligence Bureau; Shri Vivek Gogia, Director (NCRB) and Shri R.K.

Agrawal, CMD, WAPCOS. Both the buildings are designed and developed by WAPCOS, a "Mini Ratna-I" Public Sector Enterprise under the aegis of the Ministry of Jal Shakti, Government of India.

## Union Education Minister and Union Coal Minister lay foundation stone of Kendriya Vidyalaya in Talcher, MCL

Shri Dharmendra Pradhan, Union Minister of Education, Skill Development, and Entrepreneurship laid the foundation stone along with Shri Pralhad Joshi, Minister of Coal connected remotely for the establishment of Kendriya Vidyalaya, Chhendipada, situated in the Subhadra area within the Talcher Coalfields operated by Mahanadi Coalfields Limited (MCL) in Odisha's Angul District. The ceremony also had Shri Uday A. Kaole, CMD, MCL and other officials of the company. The event marked a stride towards enhancement of educational infrastructure, enriching learning opportunities for the local populace.



Shri Dharmendra Pradhan, Union Minister of Education, Skill Development, and Entrepreneurship along with Shri Uday A. Kaole, CMD, MCL during the inauguration ceremony.

The inauguration of Kendriya Vidyalaya, Subhadra Area, is an effort in bringing affordable quality education to rural areas. The newly established school will cater to 280 students up to the 7<sup>th</sup> grade initially, with provisions

for extending education up to the 12<sup>th</sup> grade in subsequent years. Aligned with the objectives of Govt. of India, MCL is undertaking the establishment of two more Kendriya Vidyalayas across Odisha. This ceremony

underscores MCL's commitment to providing high-quality education in command areas, nurturing talent, and fulfilling its corporate social responsibility by contributing to the holistic development of the community.

## MOIL registers its best ever April production

Continuing its spectacular performance of FY'24, MOIL has registered its best ever April production since inception at 1.60 lakh tonnes in April, 2024, registering a significant growth of 22% over April, 2023.

On the sales front, the company has achieved its best ever April sales of 1.15 lakh tonnes in April, 2024, registering a growth of 17% in comparison to April'2023.

Shri Ajit Kumar Saxena, CMD MOIL, mentioned that it was heartening to see MOIL team continuing the stellar performance rhythm and expressed confidence that the company will continue to excel in the coming times.



# PSEs Ink MoU

## Coal India inks pact with IIMs to boost PM's Mission Gati Shakti



The MoU was signed by Shri Keshav Rao, Director (Personnel), MCL, on behalf of Coal India, with Prof. Manoj K Tiwari, Director, IIM-Mumbai and Prof. Mahadeo Jaiswal, Director, IIM-Sambalpur and was exchanged in the presence of Shri Dharmendra Pradhan, Hon'ble Union Minister of Education, Skill Development and Entrepreneurship; Shri P. M. Prasad, Chairman, Coal India and Shri Uday A Kaole, CMD, Mahanadi Coalfields Limited (MCL).

Coal India Limited recently entered into a Memorandum of Understanding (MoU) with Indian Institute of Managements (IIM) Mumbai and Sambalpur, marking a crucial step in multimodal connectivity infrastructure for coal transportation in alignment with the PM Gati Shakti National Master Plan 2021.

The collaboration, through a Memorandum of Understanding (MoU) signed between the two IIMs and Coal India, brings together industry expertise and academic excellence, promising a transformative leap in logistic efficiency, contributing to economic growth and environmental sustainability.

The MoU, signed by Shri Keshav Rao, Director (Personnel), MCL, on behalf of Coal India, with Prof. Manoj K Tiwari, Director, IIM-Mumbai and Prof. Mahadeo Jaiswal, Director, IIM-Sambalpur and was exchanged in the presence of Shri Dharmendra Pradhan, Hon'ble Union Minister of Education, Skill Development and Entrepreneurship; Shri P. M. Prasad, Chairman, Coal India and Shri Uday A Kaole, CMD, Mahanadi Coalfields Limited (MCL).

Under this initiative, a one-year PGP-Ex programme in "Logistics and Operations Excellence through Digitisation" is to be conducted for the Executives of Coal India, serving in MCL and other subsidiaries.

Speaking on the occasion, Shri P. M. Prasad praised IIMs and MCL for the initiative.

## RECPDCL and BHEL sign MoU to form SPV for utility scale RE projects



Shri Vivek Kumar Dewangan, CMD, REC; Shri K. Sadashiv Murthy, CMD, BHEL; Shri V. K. Singh, Director (Projects), REC; Shri Rajesh Kumar, CEO, RECPDCL; Ms. Bani Varma, Director, IS&P, BHEL and other senior officials of the companies during MoU signing ceremony in New Delhi.

REC Power Development and Consultancy Limited (RECPDCL), a wholly owned subsidiary of REC Limited, has signed an MoU with Bharat Heavy Electrical Limited (BHEL) recently in New Delhi.

The MoU targets for joint development of utility scale Renewable Energy Projects across the country thereby contributing to the clean energy targets of the nation through a dedicated Special Purpose Vehicle (SPV).

The SPV will be benefitted by the core engineering expertise of BHEL and infrastructure investment expertise of REC Limited. The SPV will focus to cater energy requirement of preferably the commercial and industrial (C&I) segment with initial capacity of 1 GW which would further be scaled up.

The MoU was signed in the presence of Shri Vivek Kumar Dewangan, CMD, REC; Shri K. Sadashiv Murthy, CMD, BHEL; Shri V. K. Singh, Director (Projects), REC; Shri Rajesh Kumar, CEO, RECPDCL and Ms. Bani Varma, Director, IS&P, BHEL.

The CMD, REC congratulated both the organizations for the collaboration and guided the way forward for building renewable energy assets including solar, wind, and green hydrogen. He said, "We are pleased to announce the signing of a MoU with BHEL for the formation of a joint venture focused on developing utility-scale renewable energy projects. This collaboration brings together our extensive experience in the renewable energy sector

with BHEL's proven expertise in manufacturing and engineering. This SPV will play a crucial role in achieving India's ambitious renewable energy targets and contribute to a cleaner and greener future."

On this occasion, CMD, BHEL said that there are ample opportunities available in the RE segment for leveraging joint strengths of both the organizations in order to achieve the ambitious targets set by Government of India.

## REC and UNISED join hands to empower Children's Education in Siddharthnagar, Uttar Pradesh



Mr. Bhupesh Chandolia, Head of CSR at REC Foundation and Ms. Rashmi Kumari, Assistant Programme Director at UNISED along with other officials of REC Foundation and UNISED during the MoA signing ceremony in New Delhi.

RECLimited, through its CSR arm - REC Foundation, partnered with the Unit of Science and Educational Development (UNISED) to support the education of approximately 75,500 children in Siddharthnagar district, Uttar Pradesh. Under its Corporate Social Responsibility (CSR) initiative, REC has committed financial assistance of Rs 9.91 crore towards this noble cause.

The Memorandum of Agreement (MoA) between the REC Foundation and UNISED was signed during a ceremony held in New Delhi. The agreement was finalized by Mr. Bhupesh Chandolia, Head of CSR at REC Foundation, and Ms. Rashmi Kumari, Assistant Programme Director at UNISED, solidifying their commitment to improving educational opportunities for underprivileged children.

UNISED, with its nationwide presence, is dedicated

to revolutionizing education through innovative learning systems. As part of this collaboration, UNISED will implement solar energy-operated smart classes and establish joyful learning resource labs in government schools across Siddharthnagar district. This initiative aims to provide students with access to modern educational tools and resources, empowering them to excel academically and creatively.

Recently, REC Foundation, has demonstrated unwavering support for the education of 12,500 children of ex-servicemen, making a contribution of Rs 15 Crores to the Armed Forces Flag Day Fund.

## HSL inks strategic MoU with Pentagon Rugged Systems for Autonomous Underwater Vehicle Development

Hindustan Shipyard Limited and Pentagon Rugged Systems have entered into a Memorandum of Understanding (MoU) to collaboratively advance the development of Portable Autonomous Underwater Vehicles (AUV) one of the variant by name Dolphin. This strategic partnership aims to leverage the expertise of both entities in underwater technology for the enhancement of maritime security.

### Key Points:

**Technology Collaboration:** The MoU signifies a collaborative effort between Pentagon Rugged Systems and Hindustan Shipyard Limited in advancing the development of Dolphin AUVs, showcasing a commitment to technological innovation in the maritime domain.

**Focus:** The collaboration is aligned with the growing importance of AUVs in bolstering maritime security, Underwater Exploration, Hull Inspection and other strategic application as required for the customer.

**Major Advantage:** Portable and Light Weight, up to 60 mtrs depth, Autonomous or Tethered, Required Sensor, 90-180 minutes endurance. Communication: Pre-defined and course correction.

**Novelty:** Make-in-India and Atmanirbhar.

**Dolphin AUVs** are expected to serve as a force multiplier, contributing to the sovereign security of nations.

# Awards & Accolades to PSEs

## GAIL wins prestigious 15<sup>th</sup> CIDC Vishwakarma Award for Barauni -Guwahati pipeline



Shri Deepak Gupta, Director (Projects), GAIL and Shri A. K. Tripathi, Executive Director (Projects), GAIL receiving the award on behalf of the company at a function in New Delhi.

GAIL (India) Limited won the prestigious 15<sup>th</sup> CIDC Vishwakarma Award in the 'Achievement Award for Best Construction Projects' category for its Barauni – Guwahati Natural Gas Pipeline project (BGPL). Shri Deepak Gupta, Director (Projects), GAIL and Shri A. K. Tripathi, Executive Director (Projects), GAIL received the award on behalf of the company at a function in New Delhi recently.

The BGPL project, an integral part of the esteemed Pradhan Mantri Urja Ganga Project, has connected North-East India with the National Gas Grid for the first time. The 718 km long pipeline will act as the gateway for access of environmental-friendly fuel Natural Gas for entire North-East through Indradhanush Gas Grid Limited (IGGL).

The challenges faced during the construction of BGPL included crossing the mighty Brahmaputra river, the tough terrain and unstable sub-soil strata. All the construction constraints and engineering challenges were overcome by team GAIL, some of them like 3.6 km HDD crossing of the Brahmaputra River, the longest at that time, and four river major crossings using the micro-tunnelling technique for the first time by GAIL.

Shri A K Tripathi, ED (Projects), GAIL received the "Achievement Award for Public Officer" for his outstanding contributions.

The 'CIDC Vishwakarma Awards' are inspired by the spirit of construction and creation patronized by Lord Vishwakarma, the ruling deity of construction

practices in India. The 'CIDC Vishwakarma Awards' have become the epitome for motivating individuals and organizations to raise their performance in their specific domains leading to significant contribution towards the growth and development of the Indian Construction Industry.

## GRSE Bags CII-AI Award



Comd P. R. Hari, IN (Retd.), CMD, GRSE with the Award, along with other senior officials of the company.

Garden Reach Shipbuilders and Engineers Ltd. (GRSE), has made history by becoming the first Public Sector Undertaking to receive the esteemed AI Award instituted by Confederation of Indian Industry (CII). GRSE has been conferred with this prestigious award for "Excellence in Best Use of AI Technology/Products/Solutions by Industry through Academia Collaboration" at the Global Artificial Intelligence (AI) Summit & Awards 2023 organised by CII on the theme "Responsible AI for Accelerated Growth in India" in New Delhi recently. The award was received on behalf of GRSE by Shri Gulshan Ratan, General Manager (QA, VD & Indigenisation) and Shri Umesh Paswan, Senior Manager, QA.

This prestigious Award recognizes GRSE's pioneering work in developing "Artificial Intelligence Enabled NDT", a rule based, AI software implemented for weld quality evaluation of Radiography film. The software aims to replace manual film evaluation system with an intelligent solution. The software, marketed as "intelligent Weld inspector (I-weld)" utilizes Deep Learning (DL) Tools of AI for identification, classification, and localization of weld defects with decision-making capabilities based on Naval, Marine and ISO standards. The AI CNN module with robust Graphic User Interface (GUI), facilitates automatic report generation, paperless record keeping and

retrieval of quality documents. Adoption of this AI software has significantly reduced dependency on human expertise, thereby streamlining the evaluation process of Radiography Test (RT) Films. "Intelligent Weld inspector (i-weld)" software has been developed by Quality Assurance Team of GRSE in collaboration with CoEAMT, IIT Kharagpur. This software has also been certified by

IRCLASS. GRSE has successfully attained copyright IP for the software and Trademark IP for "i Weld" logo registered with Indian Patent Office.

Constituted by CII, the inaugural edition of CII-AI Awards aims to encourage adoption of AI by Indian Industry, to create awareness about the benefits of AI led technologies and to recognise & reward those leading the AI revolution in India.

## PSEs CSR Activities

### NLCIL distributes 2000 sewing machines to women belonging to economically weaker sections in Thittakudi under its CSR Scheme



Shri C.V. Ganesan, Hon'ble Minister for Labour Welfare & Skill Development, Govt. of Tamil Nadu distributing sewing machines to widowed women in presence of Shri Prasanna Kumar Motupalli, CMD, NLCIL; Shri. Samir Swarup Director/HR, NLCIL and Shri M. Venkatesan, Head of Sri Venkateswara Group of Institutions, Thittakudi.

As part of NLC India's outreach to weaker sections, 2000 sewing machines were distributed to women belonging to economically weaker sections under NLC India's CSR scheme, at Kazhudur village near Thittakudi. Shri C.V. Ganesan, Hon'ble Minister for Labour Welfare & Skill Development, Govt. of Tamil Nadu distributed the motorized sewing machines to widowed women in the presence of Shri Prasanna Kumar Motupalli, CMD, NLCIL; Shri. Samir Swarup Director/HR, NLCIL and Shri M. Venkatesan, Head of Sri Venkateswara Group of Institutions, Thittakudi.

Speaking on the occasion, Shri C.V. Ganesan said that he would strive to ensure such development schemes reach the people of economically weaker section. He promised the people that more of this kind of welfare schemes would be undertaken for the people of Thittakudi constituency.

Shri Prasanna Kumar Motupalli, CMD, NLCIL, while addressing the gathering, expressed his

gratitude to Govt. of TN and District Administration for all its supports, help and guidance in efficient and effective functioning of NLCIL in this region for more than six decades.

CMD NLCIL recalled a similar function in Tittakudi, to mark the commencement of the construction of three RCC Overhead Tanks of total capacity 2.6 lakh litres at a cost of Rs. 1.05 crore for meeting Drinking Water requirement of around 14,000 people of Tittakudi Municipality and other two villages. He proudly noted the currently undergoing major Desilting work of water bodies and construction of Check dam in Tittakudi at a cost of Rs. 18.40 Crore by NLCIL's CSR scheme.

CMD, NLCIL expressed his happiness in joining hands with the District administration for the present distribution of Electric Sewing Machines to 2000 beneficiaries in Tittakudi at a cost of Rs.1.20 crore under NLCIL-CSR Initiative for 'Women Empowerment'. He also elaborated about the contribution of NLCIL in the peripheral area development of Cuddalore district since its inception in 1956, focusing Socio - economic growth to achieve inclusive and sustainable growth through Company's CSR scheme.

He listed the NLCIL's comprehensive strategy to maximize the coverage of its social development by giving priority in Healthcare, Sanitation, Education, Skill development, Rural infrastructure development, etc., spending around Rs. 300 Crore in the last 10 years, benefitting the people of Cuddalore district. He noted that 70% of NLCIL's CSR spending is towards the welfare of Cuddalore District only.

---

---

## New and Improved Convention Centre at SCOPE Complex and SCOPE Minar

---

---

For Booking visit our official website: [www.scopeonline.in](http://www.scopeonline.in)

### Conference Facilities at SCOPE Convention Centre Lodhi Road, New Delhi

The centrally air-conditioned SCOPE Convention Centre at SCOPE Complex, Lodhi Road, New Delhi provides excellent conference facilities to PSEs, Govt. Departments, Autonomous Bodies, Institutions/NGOs etc. The Auditorium and other Conference Halls are equipped with projector and screen facilities, sound & light control room with recording & P.A. facility, etc. Details of the capacity of the Auditorium and other Halls.

### 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.

Regd. No. DL(S)-17/3229/2021-2023

RNI No. 37112/81

Publication Date: 04.05.2024

Date of Posting: 07.05.2024



## SCOPE SOCIAL INTERACTION CENTRE



SCOPE COMPLEX, LODHI ROAD, NEW DELHI

For further queries contact

Shri Shubh Ratna, GM (Tech & HR), SCOPE | Shri Nishant Kumar, Senior Manager, SCOPE

email- [ssic@scopeonline.in](mailto:ssic@scopeonline.in)