

# URJASVINI

**1<sup>st</sup> e-Edition**

November, 2023



**हमारा आधार... ऊर्जस्वित बिहार**



# Editorial



A journey of change, transformation and growth...

Bihar is making remarkable strides in power sector, with a keen focus on consumer satisfaction, modernisation and sustainability.

The installation of more than 20 lakh Smart Prepaid Meters has not only empowered consumers with real-time energy insights, but also ensures reduction in AT&C losses. Furthermore, our digital interventions have led to significant paper savings, making processes more efficient and eco-friendly.

We have some shining feathers in our cap. We are proud that our DISCOMS have become a profit making company for the first time since its formation, showcasing effective management and strategic initiatives. We now have the capacity to supply over 7500 MW, strengthened by our robust infrastructure that we have built over the years.

In addition to these accomplishments, BSPHCL is investing in the well-being of its members through creation of sports facilities. Our good initiative is exemplified by the construction of sports facilities like Urja Turf, Urja Stadium and Urja Park promoting physical fitness and local talent.

Bihar's Power Sector transformation is a testament to its commitment to progress, efficiency and the overall welfare of its people, serving as an inspiring example for many states aiming to embrace innovation and sustainability for a prosperous future.

We are on a growth trajectory, and with co-operation of our esteemed consumers and stakeholders, would aim even higher to further partner the growth of rising Bihar.

We have tried to present our major achievements and events in last one year through this new version of Urjasvini. Hope this journey embarks new milestones and continues forever.

## **PATRON:**

**Shri Sanjeev Hans, IAS**  
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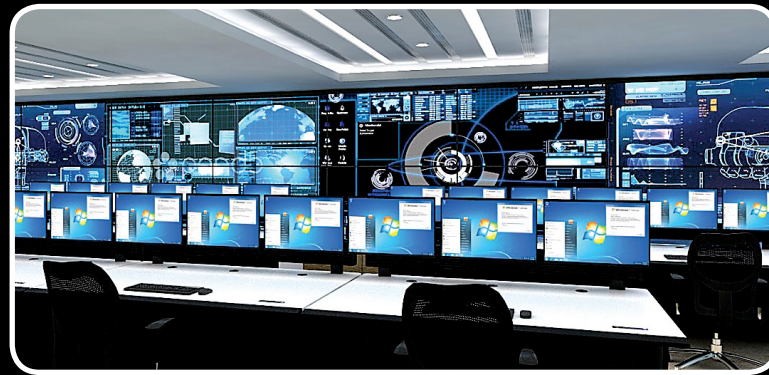
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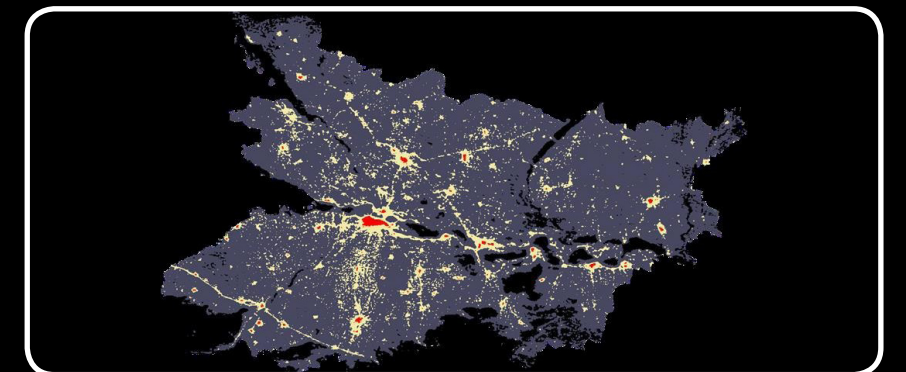
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# Message



I am delighted to present Urjasvini in a new avatar to you. In this era of digital transformation, the shift of 'Urjasvini' from a print format to an e-format underlines our commitment to becoming an environmentally conscious company. We are working on a mission mode to reduce paper usage and in this regard we have taken several innovative steps.

'Urjasvini' serves as an invaluable platform for us to connect with one another. We are not just a team dedicated to providing electricity in Bihar; we have also cultivated unwavering trust and credibility among our stakeholders over the years.

I extend my heartfelt gratitude to every member of our team for their contributions. I would like to express my appreciation to the editorial team for going above and beyond their regular duties to write and compile articles and images.

Let this journey further flourish with more creativity and positivity.

My Best wishes.

*Sanjeev Hans*

**Sanjeev Hans, IAS**  
CMD, BSP(H)CL

# Message



**C**ongratulations to Urja family for the launch of e-magazine 'Urjasvini'. The journey of this magazine has been enlightening, as we have shared vibrant stories of our glorious achievements.

We have travelled a long way to make incredible progress in power sector. This publication beautifully showcases our accomplishments by the relentless efforts of our team members and trust of our consumers.

I extend my heartfelt gratitude to everyone who has contributed to bring out this beautifully designed magazine and I encourage all our team members to contribute to make the content diverse.

My best wishes for the future issues of this publication.

**Mahendra Kumar, IAS**  
MD, SBPDCL & BSPGCL

# Message



**A**s we flip the pages of e-magazine 'Urjasvini', we will find interesting stories of our achievements and innovative solutions.

Urjasvini is more than just a publication; it is a testament to our commitment to empower our team with information and insights. I have witnessed first-hand the incredible strides we have made, all thanks to the tireless efforts of our exceptional team.

In the pages of Urjasvini, you will find stories that highlight our accomplishments and the transformative impact that we have had on the lives of our valued customers.

My heartfelt appreciation goes out to everyone who played important role in bringing this beautiful publication in e-format.

My best wishes for the next issues. I heartily wish that this magazine be a source information and a source of pride for all of us.

**Dr. Aditya Prakash, IAS**  
MD, NBPDC & BSPTCL

# दस साल बेमिसाल

**पि**छले साल बिहार स्टेट पावर होलिंग कंपनी लिमिटेड एवं अनुषंगी कम्पनियों की स्थापना के दस वर्ष की अविस्मरणीय यात्रा को ऊर्जा परिवार ने एक उत्सव के रूप में मनाया।

बात चाहें राज्य के हर टोले, हर गाँव, या हर घर तक बिजली पहुँचाने की हो या लोगों को सुविधा पूर्ण बिजली की सेवा उपलब्ध कराने की हो, हमारे विद्युत कर्मियों ने दिन रात एक कर हर एक तय मुकाम को हासिल किया, जो इस सफलता की कहानी के एक-एक अध्याय के रूप में सामने आए। इस सफर में अनेक चुनौतियाँ भी सामने आईं जिसमें कोरोना जैसी महामारी, आँधी-तूफान एवं बाढ़-सूखाड़ जैसी विपदायें भी थीं। लेकिन हमने दृढ़ इच्छाशक्ति, मेहनत एवं राज्य सरकार के सहयोग से इन चुनौतियों का सामना करते हुए अपने लक्ष्य को प्राप्त किया।

इसी उपलक्ष्य में आयोजित इस उत्सव पूर्ण कार्यक्रमों की श्रृंखला में माननीय मुख्यमंत्री श्री नीतीश कुमार जी के कर कमलों से ऊर्जा प्रक्षेत्र की अनेक योजनाओं का उद्घाटन, शिलान्यास एवं कार्यारंभ किया गया। ऊर्जा ऑडिटोरियम में आयोजित इस कार्यक्रम में माननीय ऊर्जा मंत्री श्री बिजेन्द्र प्रसाद यादव जी ने भी हमेशा की तरह हमारा उत्साहवर्द्धन किया।

माननीय मुख्यमंत्री महोदय ने इस अवसर पर विद्युत भवन परिसर में एक आधुनिक भवन विद्युत भवन - III को हमारे कर्मियों के लिए सौगात स्वरूप भेंट किया गया। इस अवसर पर दस वर्ष की उपलब्धियों को समेकित करते हुए एक स्मारिका 'ऊर्जान्वयन' का विमोचन किया गया।

माननीय मुख्यमंत्री ने ऊर्जा परिवार के सदस्यों को उनके दसवें स्थापना दिवस की वर्षगाँठ पर शुभकामनाएँ दी।

हमारे अध्यक्ष-सह-प्रबंध निदेशक महोदय के मार्गदर्शन में ऊर्जा पार्क में दस साल के बेमिसाल सफर की खुशी में एक महोत्सव रूपी कार्निवल का आयोजन हुआ जिसमें विद्युत कर्मियों के द्वारा परिवार के साथ अनेक प्रकार की मनोरंजन से भरपूर अनेक तरह की गतिविधियाँ की गईं।

इस अद्भुत आयोजन में बच्चों के लिए अनेक तरह के खेलकूद, जादू का प्रदर्शन, अन्य मनोरंजक गीत संगीत एवं स्वादिष्ट व्यंजन पेश किए गये।

इसी कड़ी में नवनिर्मित विद्युत भवन - III के मुख्य सभागार में एक नाटक मंचन किया गया तथा खेलकूद में उत्कृष्ट कर्मियों को सम्मानित किया गया।







# SMART METERS..

## A Revolutionary Step towards Brighter Bihar !!

To provide timely and error-free bills to the consumers, Honorable Chief Minister, Sri Nitish Kumar directed to implement Smart Prepaid Meters in the state. Subsequently, the installation of Smart Meters with Prepaid functionality for all the consumers of Bihar in a phased manner was taken up.

Initially, the installation work of Smart Meters was started in Arwal and Kanti towns on pilot basis.

*"Bihar became the first state in the country to implement smart metering with prepaid functionality."*

The success of the Smart Prepaid Meter project of the state became an example for other states of the country and on the basis of the successful implementation of the project in Bihar, Central Government in the year 2021 directed other states also to implement the Smart Prepaid Meter project.

Along with this, a total project worth Rs 15074.12 crore was approved by the State Government in the year 2021 for the installation of Smart Prepaid Meters in the premises of all the remaining 148 lakh rural consumers.

*"Bihar is the first state in the country to approve and start the work of Smart Prepaid Meter installation for all the consumers of the state".*

Till now, Smart Prepaid Meters have been installed with more than 20 lakh consumers of the state, which is more than 80% of the total installed Smart Prepaid Meters in the country.

With Smart Prepaid Meter functionality, consumers can monitor their electricity consumption on daily basis resulting in most efficient use of electricity across the state. Consumers can recharge the meter at any time sitting at home with any minimum amount as per their need and convenience. Consumers are



### Benefits to Consumers

- Pay and Use facility for consumers.
- Extra Rebate of 3%. No Security Deposit.
- Accurate Meter Reading & Error-free timely billing.
- No Disconnection & Reconnection charges.
- Self monitoring of daily electricity consumptions.
- Disconnection only on working days between 10 AM to 1 PM while reconnection service is working 24x7.

### Benefits to Discoms

- Increase in Billing & Collection Efficiency.
- Decrease in AT&C losses.
- Decrease in Average Arrear per Consumer.
- Analysis of theft cases based on tamper events.
- Remote data access and analysis.
- No need of Manpower for Disconnection & Reconnection.
- Upfront (Prior) payment of supply charges before use, better cash flow.



also becoming aware of energy saving which is beneficial for environmental protection. Along with various benefits to the cosumers SPMs play important role in enhancing the revenue collection of DISCOMS.

At Present, Ashiyana, Rajendranagar & Bankipur Division of SBPDCL & Muzaffarpur Urban - I Division in NBPDCCL have successfully installed Smart Prepaid Meters in all households.

It is also a matter of pride & achievement for all of us that Teams of Engineers from Madhya Pradesh Power Management Company, Chhattisgarh State Power Distribution Company, SAIL Bokaro, TATA Power, Odisha, BSES, Delhi visited Bihar to study the efficient model of Smart Prepaid Meters in the state. The unique initiave of installation of SPMs in Bihar was acknowledged and applauded nationwide.



# “Make your trick Hat-trick”

## 45th All India Electricity Sports Control Board Cricket Tournament 2023: A Fiery Clash of Talent in Vadodara, Gujarat

In a vibrant display of sporting prowess, the 45th All India Electricity Sports Control Board (AIESCB) Cricket Tournament for 2023 was held in the picturesque city of Vadodara, Gujarat. The tournament brought together some of the finest cricketing talents from various electricity boards across the nation.

### A Driving Force behind the Victory

The 45th All India Electricity Sports Control Board Cricket Tournament held in Vadodara, Gujarat, witnessed a remarkable victory, and much credit for this triumph goes to the exceptional leadership of Chairman Sri Sanjeev Hans, CMD of the Bihar State Power Holding Company Limited (BSPHCL). Under his visionary guidance and unwavering support, the participating team from BSPHCL displayed exceptional skills and emerged as the deserving champions of the tournament.

### Inauguration and Enthusiastic Start

The tournament commenced with a grand inauguration ceremony at the iconic venue in Vadodara, witnessing the presence of esteemed dignitaries, cricketing legends, and representatives from electricity boards across the country. Amidst an aura of excitement and anticipation, the captains of the participating teams took the oath of fair play, promising to uphold the spirit of the game throughout the event.

### Clash of Titans

The knockout stages intensified the competition, and the semi-finals were nothing short of nail-biting affairs. BSPHCL's team ended the Kolkata reign in AIESCB Tournament. Kolkata had dominated the tournament, reigning as the undefeated champions. Their incredible consistency and exceptional cricketing prowess had made them the team to beat.



However, this year, BSPHCL rose to the challenge, determined to put an end to Kolkata's prolonged supremacy. Emotions ran high as the teams battled it out for a place in the ultimate showdown. The electrifying atmosphere at the stadium elevated the players' performances to a new level, making each match an enthralling spectacle.

Finally, after a series of enthralling contests, two deserving teams Bihar and Punjab made it to the grand finale. The spectators witnessed an epic showdown between two cricketing powerhouses, showcasing a perfect blend of skill, strategy, and nerve. The final match turned out to be a memorable contest in which BSPHCL team managed to outperform Punjab in all aspects of the game, clinching a well-deserved victory in the finals.

### Champions Emerged

After weeks of captivating cricketing action, BSPHCL emerged as a new champion in the form of one of the participating electricity teams. With sheer determination, unwavering spirit, and outstanding talent, they etched their name in the history books, lifting the trophy amid jubilant celebrations. The runners-up were lauded for their exceptional performance throughout the tournament and received accolades for their sportsmanship.





### BSPHCL annexes Bihar Corporate Cricket League Title, 2023

Like every year, Bihar Corporate Cricket League, 2023 was held in the summer months, 2023 at Urja Stadium. Bihar State Power Holding Company Limited (BSPHCL) won the Bihar Corporate Cricket League Season – 2 title defeating the Straight Drive by 9 wickets. BSPTCL also participated in this tournament as a promising team and played impressively well.



### John Kurian Cricket Tournament, 2023

In a tribute to Shri John Kurian, first Chief Electrical Engineer of erstwhile Bihar State Electricity Board (BSEB), John Kurian Cricket Tournament is being organised by BSPHCL every year. John Kurian Championship for Males & Females are separately being organised to give equal opportunities to all the members of Urja Family to showcase their talent on the ground. In the John Kurian Female Tournament, Power Hitters defeated the Power Queens by playing a fabulous innings & in the male Tournament, BSPHCL raised the trophy against SBPDCL by playing a stupendous match.



# Training at Art Gallery

## An initiative towards creativity...



It is said that an Artist sees what others only catch a glimpse of, as Art is not just an expression of emotion but also a medium for communicating ideas. An inspiring work of Art enlightens our mood and causes us to dream, thereby awakening our creativity. It is one such creation that enables interpretation of any kind and is best form to take out creative or imaginative talent out of anyone. It gives us an innovative way to view the world or society around us and causes us to have an appreciation and gratification for what we have in our lives. Art in different forms, also helps in motivating people. There is no doubt that creativity is the best human resource of all.

Bihar also has a glorious past in art and has attained international recognition through arts and crafts since several centuries. Madhubani or Mithila painting renowned on national spectrum has originated in Bihar itself. In a step towards promoting Art and Artistic talents, BSPHCL has initiated a training program for interested art lovers in its Art gallery located in the premises of Vidyut Bhawan.

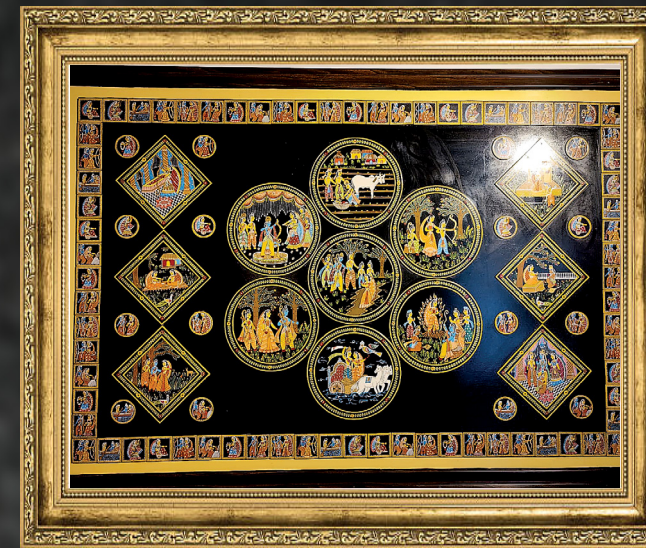
A certification course of 3 months is being provided to the batches which comprises of BSPHCL employees and their relatives as well as outsiders. Various courses like Madhubani painting, Contemporary painting, Terracotta painting and Tikuli painting are being offered to them free of cost by certified trainers. The

training is provided on weekends i.e. Saturday and Sunday so that interested employees can also pursue it in their free time along with their work. The main purpose behind this initiative is to provide a platform to the creative minds so that they can portray their imagination in a guided environment.

This training program has not only provided opportunity to the young Artists who want to pursue their career in the field of art but also has provided platform to the ones who want to inculcate it as a hobby as indulging in any creative activity is believed

to reduce stress level and promote well being by providing an escapade from the monotonous routine. Participating in group creative activities or sharing one's art can promote social connection. Research conducted by international agencies has shown that open and inclusive societies are most successful in promoting growth and stable development in long term. Apart from this, Art also has been linked to improved memory, reasoning and resilience in aging adults. Thus, by this initiative BSPHCL has contributed immensely in Art sector through this remarkable gift to the Art lovers of Bihar.





# Distribution Companies in Profit for the first time !!



**D**istribution Companies in Bihar have made a profit for the first time since its formation where combinantly they made a profit of Rs. 214 crore in the FY 2022-23. SBPDCL which supplies electricity in 17 Districts of South Bihar has made a profit of ₹422.68 cr. The total income of SBPDCL in the financial year 2022-23 is ₹17,982.26cr, which is 42% more than the last financial year's income of ₹12,702.16 cr.

This has been possible due to multiple drives implemented over the period by the Discoms. To meet this objective DISCOM has started AI based Optical Character Recognition (OCR) billing for consumers. Apart from OCR billing, installation of Smart Pre-paid Meter (SPMs) at a large scale is another massive initiative. With total installation of approx 20 lacs Smart Pre-paid Meters in both the DISCOMs as on date, Bihar has become the leading state in the nation in this arena. Furthermore, SUVIDHA an in-house built mobile application provides 21 services starting from availing new service connection to surrendering connection by the consumer.

## BSPHCL joins elite utilities of country by notching up historic profit of Rs 214 cr.

ALOK MISHRA

**PATNA:** Bihar State Power Holding Company Limited (BSPHCL) has joined some of the elite utilities of the country by posting remarkable, and historic profit and impressive revenues growth. Principal Secretary, Energy Department and Chairman-cum-Managing Director of BSPHCL Sanjeev Hans said that two distribution companies of BSPHCL - South Bihar Power Distribution Company Limited (SBPDCL) and North Bihar Power Distribution Company Limited (NBPDCL) - jointly posted a 42% increase in revenue and earned a profit of Rs 214 crore, which is a historic milestone for BSPHCL.

CMD attributed this success to transformative changes



brought in power sector under visionary guidance of Chief Minister Nitish Kumar and Bihar Energy Minister Bijendra Prasad Yadav. "The impressive profit achieved by DISCOMs will serve as a catalyst, inspiring us to stride confidently towards implementing concrete and forward-thinking steps," he said, while congratulating the team for the feat.

Hans added that modernization of technical capabilities of power companies has con-

tributed to this achievement. "Increased consumer awareness and our campaigns on social media have led to regular bill payments by consumers reflecting impact on financial results," he said. "Now, Bihar is not just a power surplus state but also counted among few energy companies in country that generate profits. In last ten years, Energy department has witnessed these milestones owing to continuous support of the government," Hans added.

In fiscal 2022-23, SBPDCL collected whopping 42% higher revenue than the previous year. In financial year 2022-23, SBPDCL collected revenue of Rs 17,982.26 crore, while in same period last year, collection was Rs 12,702.16 crore.

Total expenditure of DISCOM in financial year 2022-23

was Rs17,559.59 crore, which is 25% higher than total expenditure of previous financial year of Rs 14,043.79 crore. The cost had escalated owing to an increase in energy procurement expenses. Consequently, company earned a net profit of Rs 422.68 crore in financial year 2022-23. Notably 77% of total revenue of company was collected from consumers, which is the highest among all financial years.

This robust profit has been achieved for first time since establishment of Bihar State Electricity Board (BSEB) on April 1 1958. BSEB was dissolved on November 1, 2012 and separate companies were formed for power distribution, transmission and generation, while BSPHCL was created as overarching holding company.

Bihar as an efficient DISCOM has envisaged the need of IT tools & AI & ML application in power industry. With the view to automate the process, some significant IT development has taken place in the areas of revenue management, power purchase cost optimization & energy accounting such as SAMEEKSHA, SAMADHAN, Energy Payment Prioritization Management System (EPPMS) and RFMS (Raid and FIR Management System). In this manner, Company continues to devise new policies, services & strategies for consumer betterment & AT&C loss reduction.

*It is worth mentioning that for the first time in erstwhile Bihar State Electricity Board/DISCOM history of 65 years, the company has earned a remarkable profit of Rs.422.68 Cr in the FY 2022-23.*

## AI powers south Bihar discom, revenue up 41%

Ruchir Kumar

ruchikumar@indiatimes.com

**PATNA:** Artificial intelligence (AI) and smart prepaid energy meters have helped the South Bihar Power Distribution Company Limited (SBPDCL), a state-owned distribution company (Discom), register a profit of ₹422.68 crore for the first time in the 65-year history of the erstwhile Bihar State Electricity Board (BSEB) and the Discom, said officials on Sunday.

The SBPDCL, which comes under the Bihar State Power Holding Company Limited (BSPHCL), also recorded 41.57% growth in total income of ₹17,982 crore this year (FY 2022-23) compared to ₹12,702 crore the previous year (2021-22), its highest ever so far, the officials added.

As many as 45 lakh of SBPDCL's nearly 63.96 lakh consumers are now covered under the AI-based Optical Character Recognition (OCR) billing system, which reduces billing error by minimising manual interface and allowing the meter reader to capture the meter reading of a consumer simply by just clicking the image of the digital electricity meter on the mobile phone.

"On a pilot basis, we began with the AI-based OCR billing for 113,754 consumers in the initial phase in June 2022. Today, we have extended the OCR coverage to nearly 45 lakh rural consumers out of our total 63.96 lakh consumers," said Arvind Kumar, general manager (revenue) of the SBPDCL.

The remaining 19 lakh (approx) urban consumers are covered by smart prepaid meters (SPM) in which a consumer has to pay for the electricity charges in advance. "Together, 81% of total 63.96 lakh active power consumers in the SBPDCL are billed without any manual interference through OCR billing system and smart prepaid meters," said Kumar.

The government has set a target to convert all postpaid electricity meters into prepaid connections by March 31, 2025. This, however, seems to be a daunting task as only 18 lakh pre-paid connections have been installed so far as against a total subscriber base of 1.70 crore (17 million) in Bihar.

The SBPDCL and the North Bihar Power Distribution Company Limited (NBPDCL) have installed 9 lakh prepaid connections each against a subscriber base of 60 lakh and 1.0 crore (10 million), respectively, said Kumar.

"With total installation of more than 18 lakh smart pre-

paid meters in both the discoms as on date, Bihar has now become the leading state in the country in installation of smart pre-paid meters," said Kumar.

"There has been a significant reduction in billing errors by simply reducing human intervention by adopting OCR billing and smart pre-paid meters," he added.

Through IT-based interventions, the SBPDCL has also succeeded in reducing its aggregate transmission and commercial loss from 33.54% in FY 2021-22 to 28.15% in FY 2022-23.

"Anti-theft drive is one such move that aid in decreasing the

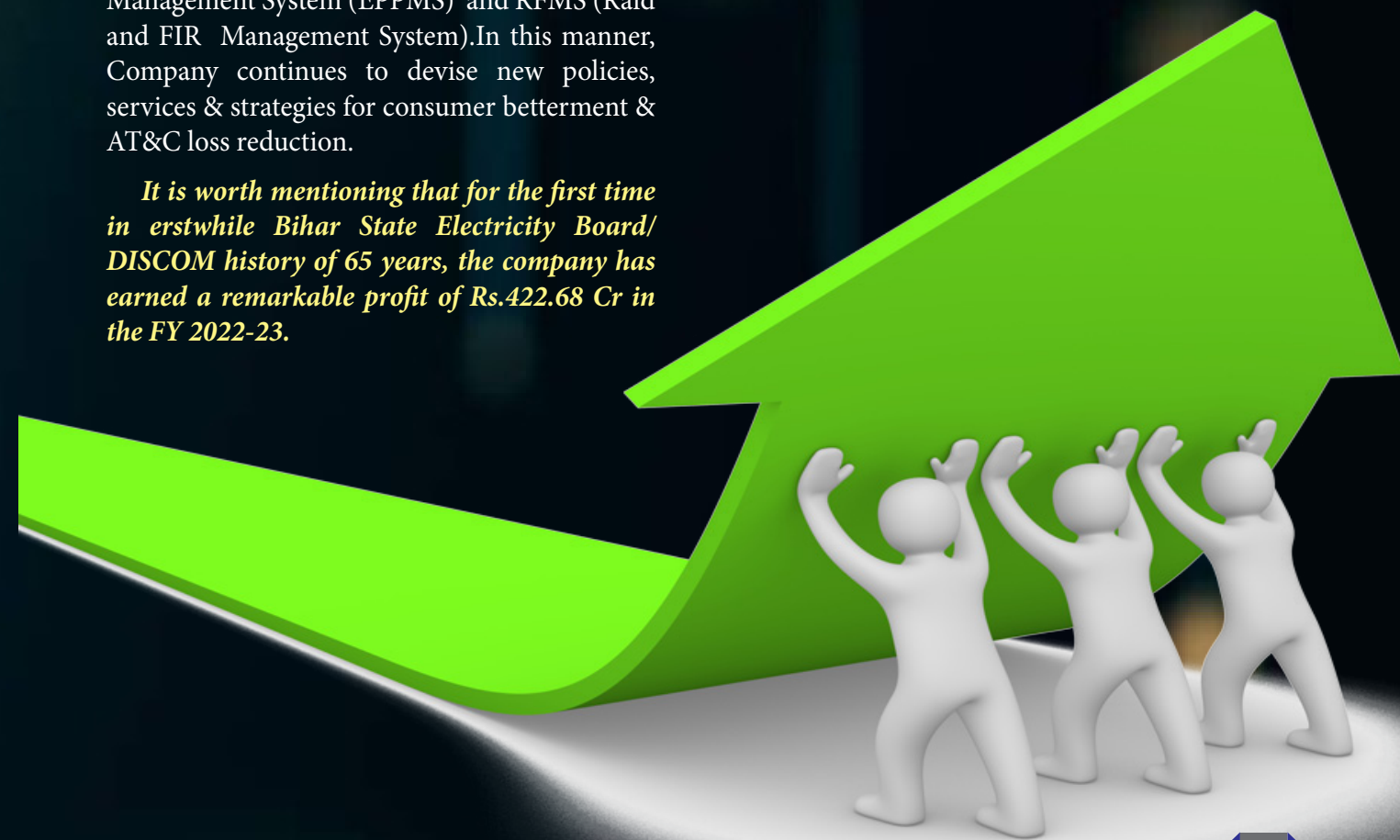
losses by registering power theft cases. Separate special task force (STF) has been enforced in field to handle FIR cases. As many as 42,921 FIR cases have been registered during the year to encounter the non-technical losses occurring due to pilferages and power thefts," said Kumar.

Under the supervision of STF, a raid and FIR management system has also been developed to create online data repository of raid and FIR cases to improve accountability and transparency, he added.

"Due to our concerted initiatives, the SBPDCL, for the first time in the 65-year history of the erstwhile Bihar State Electricity Board (BSEB) and the DISCOM, has registered a remarkable profit of Rs 422.68 crore in 2022-23," said Kumar.

The NBPDCL, which caters to the power supply in 21 districts of Bihar, had, however, registered a loss of ₹207 crore during the same period. The SBPDCL looks after power supply in 17 districts, including state capital Patna. Together, the combined profit of the two discoms was ₹215 crore this year.

The state-run BSEB was unbundled into five companies, including the two Discoms, on November 1, 2012, as part of implementing reforms in the power sector.



# Triple T

## Mantra for Sustainability



Since inception of the 2nd decade of DISCOMs, BSPHCL has been working on the entire power cycle starting from optimising the power procurement cost to enhancing operational and management efficiencies on the Power Distribution Side and ensuring timely and accurate billing for consumers. The viability & longevity for efficient operations of utilities has been linked to the “Triple T” Mantra of

1. Team Spirit,
2. Technology leveraging data,
3. Trust of Consumers & Government

With the Triple T Mantra at its core, BSPHCL has

created several notable IT interventions/tools for effective e-governance and needful handholding to DISCOMs for financial sustainability & bridging the gap between the low revenue recoveries against the increasing cost of power supply.

### **SAMPURN: Supply-side Automation & Metering (System) of Power-flow in Urban & Rural Network**

SAMPURN is an in-house developed centralized energy accounting & auditing MIS tool acting as an enabler for analysing not only the comprehensive view (DISCOM/Circle/Division wise) but also the micro level view (PSS/Feeder/DT wise) for

commercial auditing. On one hand, SAMPURN identifies gaps in automated (manual intervention free) system metering for corrective actions, & on the other hand (subject to availability of data) it has provisions for treating each DT as a profit centre with commercial audit features.

### **Bihar Urja SAMEEKSHA: Revenue Handholding of DISCOMs**

The SAMEEKSHA portal has been developed to handhold DISCOMs in building a sustainable revenue model aided by standardized monitoring & performance tracking MIS portal. 4 key features of the SAMEEKSHA portal are

- Integraion of both the billing systems of SAP & NIC
- Governance & standardized monitoring framework
- Database cleansing handholding
- Advanced analytics support to DISCOMs

### **BiharUrjaSAMADHAN: E-Governance for Power Procurement Management**

This MIS tool helps standardize & strengthen the continuous process of monitoring power procurement activities at micro (15 min block) level. Daily/Weekly/Monthly reports are generated to analyze cost implications and are studded with

enhanced analytics for inculcating proactive decision making habits.

**Samriddhi :** The energy payment prioritization management system (EPPMS) has also been launched for effective fund management by DISCOMs. OTP based limited access has been enabled for users/stakeholders to avoid any breach of sensitive data.

### **Raid & FIR Management System (RFMS)**

Raid & FIR Management System (RFMS) is an integrated online solution which is set to replace all manual and fragmented processes from inspection to payment. Inspections at consumer premises are initiated through STF App and redirected to RFMS portal in case of theft being recorded. Necessary evidences (Audio/Video/Documents) and FIR details are uploaded on this portal against individual consumers. Archiving & Data repository is designed for easy search accessing all related data & documentation for long legal processes with support from empanelled legal support. Prompt information through SMS for inspection, theft penalty assessment to occupant as well as registered mobile number ensures transparency and helps officers on duty to get away from unnecessary allegations. Payment against penalty imposed along with units charged is now linked directly to the billing servers and is updated suitably for monthly performance analysis.





# Urja Turf-

## The perfect Ground to play on



### It's a big GOAL!

It's a matter of great pride for all of us, that BSPHCL has gifted biggest Astroturf Stadium to Bihar to provide a proper platform for Football lovers.

The Urja Turf Stadium was completed in record time & was inaugurated on 1st of August 2023. The Stadium is located at BSEB Colony in Rajbanshi Nagar. A well-equipped stadium having state-of-art football ground & skating ring, is a boon for sports enthusiasts. This Stadium will allow our athletic talents to flourish by providing state-of-art facility for professionals & amateurs.



The venue features of the facility includes 3 excellent 5v5 artificial turf and 1 top-quality 7v7 artificial turf that caters to all skill levels.

Each of our turf pitches boasts premium synthetic grass, ensuring a smooth and consistent playing surface that allows you to focus on your game. The 5v5 turfs are perfect for small-sided games and are ideal for honing your skills while the 7v7 pitch is perfect for larger groups and can accommodate bigger game formats.

The venue has seating arrangements for spectators, enabling friends and family to cheer up the players while enjoying. The Turf is well equipped with safety facilities for players and provides a friendly environment and excellent facilities to meet all our needs, making our time unforgettable.



# बच्चों के लिये डे-केयर सेंटर एवं क्रेच

**बि**हार स्टेट पावर होलिंग कंपनी लिमिटेड एवं इसकी अनुषंगी कंपनियों में बड़ी संख्या में महिला अधिकारियों एवं कर्मियों की भागीदारी के मद्देनजर उन्हें अनेक प्रकार की विशेष सुविधाओं की व्यवस्था की गई है। इस कड़ी में बी.एस.पी. एच.सी.एल कॉलोनी, पटना में कंपनी में कार्यरत महिलाओं एवं बच्चों के लिए एक आधुनिक डे केयर सेंटर-सह पालनाघर की शुरुआत की गई। इस सेंटर का उद्घाटन श्री आमिर सुबहानी मुख्य सचिव बिहार द्वारा किया गया।



# IT Developments & Cyber Security

In today's digital age, government companies are increasingly reliant on their IT departments to ensure the smooth functioning of operations, safeguard sensitive data and drive efficiency. IT Department of Distribution and Transmission companies plays a multifaceted and integral role in management of various ongoing projects of our company from ensuring seamless management of consumer complaints and revenue collection through RAID & FIR Management System to safeguarding sensitive information through CSOC and ISMS implementation, enhancing resource management with ERP and automating the various processes, thereby minimizing errors, improving transparency and enhancing overall efficiency in energy management through SAMAST.

RAID & FIR Management System provides Online Record Keeping, Unique Reference Numbers, Direct Integration with Collection Counters, Efficient Tracking and Monitoring, Headquarter-Level Monitoring and Integration with GIS and Mobile Apps. From Consumers point of view, it furnishes Real-Time Updates, Status Checking and convenient mode of Payment. It promises greater accountability and transparency.

SAMAST is a comprehensive software solution designed to facilitate scheduling, accounting, metering, and settlement of electricity transactions within the SLDCs. IT department looks after program management and hardware related work of DC/DR Infrastructure in SAMAST and ABT Meters, Active Directory Configuration.

ERP – IT department oversees the implementation of ERP system and assists different modules and business processes to enhance productivity, streamline operations and provide real-time access to vital information.

ISO 27001 - IT department is tasked with the implementation and maintenance of ISMS (Information Security Management System). ISMS provisions systematic approach and includes policies, procedures and technical measures that help protect information assets from various risks including cyberattacks, data breaches and unauthorized access.

CSOC (Cybersecurity Operations Centre) project



in BSPTCL has been conceived, conceptualized and realized by IT department for monitoring, detecting, analysing, and responding to cybersecurity threats and incidents. CSOC will play a critical role in safeguarding digital assets, sensitive data and constantly assess and improve security measures to stay ahead of evolving cyber threats.

As technology continues to evolve, the importance of the IT department will grow, making it imperative to invest in IT infrastructure and expertise.







# स्वास्थ्य जागरूकता मिशन

बिहार स्टेट पावर (होल्डिंग) कम्पनी लिमिटेड द्वारा ऊर्जा परिवार के अपने सदस्यों को स्वास्थ्य के प्रति सजग बनाने के उद्देश्य से ससमय स्वास्थ्य शिविर का आयोजन होता आया है।

कंपनी के इसी सोच के तहत बी०एस०पी०एच०सी०एल० कॉलोनी स्थित विभागीय अस्पताल में दिनांक 13 मई, 2023 को निःशुल्क स्वास्थ्य शिविर का आयोजन किया गया, जिसमें विद्युत कर्मियों के स्वास्थ्यहित में हृदय, श्वास, छाती, स्त्री, किडनी, मुत्र रोग, हड्डी एवं समान्य रोगों के ईलाज की व्यवस्था मुहैया कराई गई।

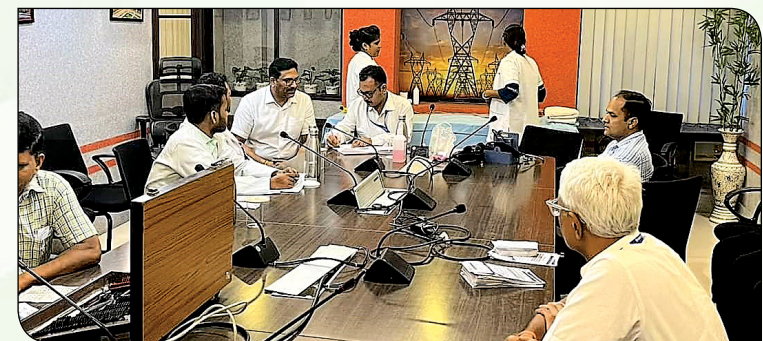
इसी क्रम में दिनांक 19 सितंबर, 2023 को कंपनी के अधिकारियों व कर्मियों के लिए विद्युत भवन में हेल्थ चेकअप कैंप का भी आयोजन किया गया। कैंप में कुल 108 लोगों ने भाग लिया, जिसमें अध्यक्ष-सह-प्रबंध निदेशक श्री संजीव हंस, प्रबंध निदेशक श्री महेन्द्र कुमार एवं डॉ० आदित्य प्रकाश भी शामिल थे।

यह सिलसिला आगे बढ़ते रहा और विद्युत भवन में जे पी मेदांता सुपर स्पेशलिटी के कार्डियो पल्मोनरी रिससिटेशन विशेषज्ञों के द्वारा 'बनो जीवन रक्षक' कार्यक्रम के तहत बी०एस०पी०एच०सी०एल० और उसकी अनुषंगी कंपनियों के पदाधिकारियों और कर्मचारियों को कार्डियक अरेस्ट और हार्ट अटैक से पीड़ितों को सहायता पहुँचाने



एवं तत्काल जान बचाने के उपाय बताये गये।

प्रशिक्षण सत्र में जे पी मेदांता सुपर स्पेशलिटी हॉस्पिटल के निदेशक क्रिटिकल केयर डॉ० किशोर झुनझुनवाला ने प्रशिक्षण के दौरान कहा कि कार्डियक अरेस्ट में पीड़ित व्यक्ति को तुरंत सहायता पहुँचानी चाहिए। इसके लिए हर किसी को प्रशिक्षित होना आवश्यक है।



# Because safe workplace is every women's right...

The principle of gender equality is enshrined in the Indian Constitution where the Fundamental Rights and Directive Principles of State Policy ensure equality and equal protection, prohibiting discrimination on the grounds of gender, and thereby provides equality of opportunity to all citizens in matters related to employment.

In order to create a safe and conducive work environment for women and to provide protection against sexual harassment, an internal committee has also been formed for women employees of BSPHCL and its subsidiary companies for redressal of such complaints. Based on the complaints

received, this committee conducts meeting at regular intervals, wherein the complaints received from the employees is enquired into, proceedings are conducted and statements are recorded. After due deliberation, the proceedings of such meetings and recommendation of the committee is sent for further compliance.

It is a common perception that employees can easily identify sexual harassment at workplace and raise their voice against the same, but this is not the case all the time. Most of the times women refrain from reporting such incidents due to the fear of social stigma attached to it, fear of being shamed or punished in their professional life at their workplace.



Therefore, it is important to educate the employees about covert acts of sexual harassment and conduct awareness programmes to sensitize them on this issue. In a step towards creating awareness amongst its women employees, a workshop was organised on 09.06.2023 by BSPHCL in the premises of Vidyut Bhawan. A legal expert was also called to share her views and experience on this issue with the participants. The women participants had a healthy interaction with the expert and the expert also shared her valuable insights about the various legal remedies available to the women at their workplace. Moreover, a presentation was shown on the policies, prevention systems, procedures to file complaint and the rights available to the women to deal with any such issues at workplace.

Because progress of any society is truly reflected in the empowerment of its women therefore, it is our collective responsibility to provide a safe and secure workplace to our women so that they keep progressing and flourishing without any unwanted fear.



# Knowledge Exchange Tours

## NORD POOL AS, Norway A Study Programme

A Study Programme was organised by Eastern Regional Power Committee (ERPC) in coordination with Nord Pool Academy, Norway on Power Trading at Nord Pool, Physical/ Financial Electricity Markets of Europe and Planning of Routes for their Evacuation.

A team of Indian delegates from Ministry of Power, Govt. of India, Central Electricity Authority, Eastern Region constituents (includes BSPHCL/ BSPTCL/NBPDCL), POSOCO etc. participated in the study programme conducted for one week from 12th Sep, 2022 to 16th Sep, 2022 and 25th Sep, 2023 to 30th Sep, 2023.

The objective of the Study Programme was to raise awareness about current energy sector scenario in European power market, Nordic Countries and aspects of power trading at Nord Pool Academy being one of the largest power exchange for electricity. The Study Programme mostly consisted of power market sessions and two days field visit. The power market sessions dealt with products of power market, day ahead market, intraday market, financial market, real-time balancing market,

functions of Transmission System Operator (TSO), NVE, UMM, clearing & settlement etc.

The European power market is a dynamic system that involves multiple actors, such as generators, transmission system operators, distributors, retailers and consumers. The market is designed to ensure the security of supply, the integration of renewable energy sources, the competitiveness of electricity prices and the decarbonization of the power sector. The market operates on different timeframes, from long-term contracts to real-time balancing, and across different regions, from national markets to cross-border trading zones. The market is also subject to various regulations, policies and incentives that aim to foster innovation, efficiency and sustainability.

This study programme on power gave exposure to the Indian Delegates on the fundamentals of electricity markets, such as supply and demand, pricing, trading, regulation, and competition followed in Europe & Norwegian countries. This programme helped delegates to understand the complex dynamics of the power sector and the challenges it faces in the context of energy transition, security of supply and strategies for the power market.



## Indo - German Energy Programme

As part of capacity-building initiatives under RDSS, GIZ is collaborating with Power Finance Corporation to implement a training program titled "TRAINING PROGRAM ON DIGITALIZATION AND DATA ANALYTICS - PREPARING THE DISTRIBUTION SECTOR FOR ENERGY TRANSITION" for the senior management of DISCOMs in India. Under this project, an international knowledge exchange tour to Spain and Germany was organized by GIZ for a high-level Indian delegation comprising MoP, PFC, and 7 state DISCOMs namely - APDCL, DVVNL, Goa, HPSEBL, JPDCL, SBPDCL, and WBSEDCL. The objectives of the tour were:

- Peer-to-peer learning from European experience in the field of distribution grid automation and how it leads to better consumer service and system reliability.
- To demonstrate the implementation and management of emerging technologies in the

distribution network.

- To identify areas of cooperation, collaboration, and knowledge management between stakeholders of both countries.

## The key learnings along with the way forward were:

- i. Grid Automation and Smart Metering
- ii. Use of AI / ML for data analytics for energy accounting
- iii. Process driven O&M
- iv. Focus on RE / EV Grid Integration
- v. Asset Management
- vi. Focus on hands-on training
- vii. Focus on applied research and technical pilots

This visit provided a rich exchange of knowledge & ideas and emphasized the importance of international co-operation and the sharing of best practices to address the challenges and opportunities in the evolving energy landscape.



Indo – German Energy Programme, Energy Transition with DISCOMs (October 07 – 14, 2023).

# हिन्दी दिवस

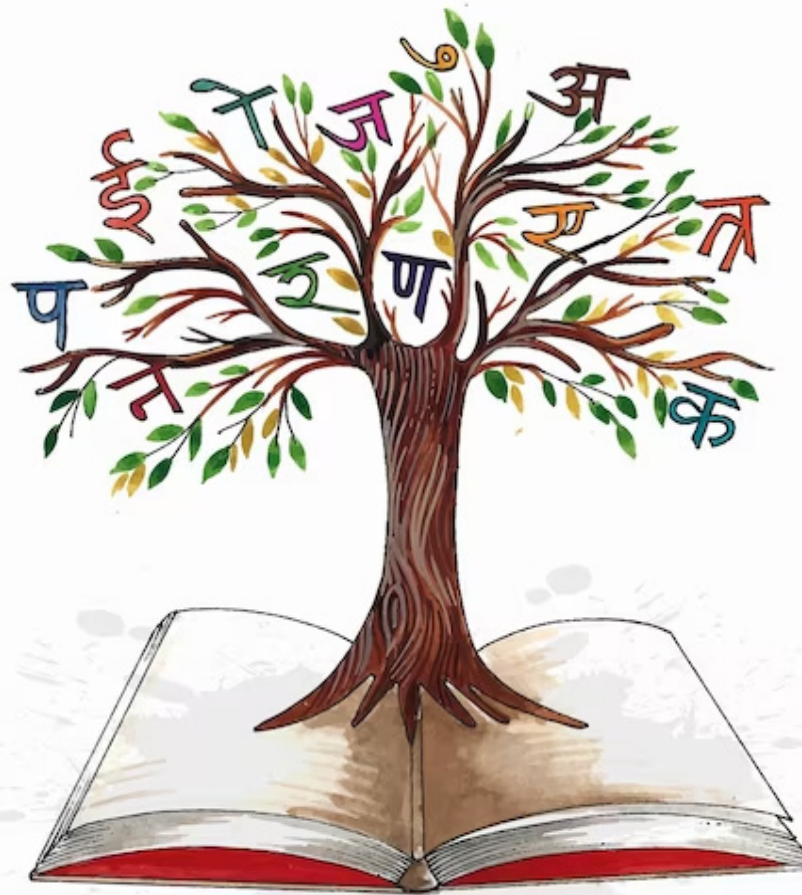
दिनांक : 14 सितम्बर, 2023



## हिन्दी को समर्पित: यादगार पल

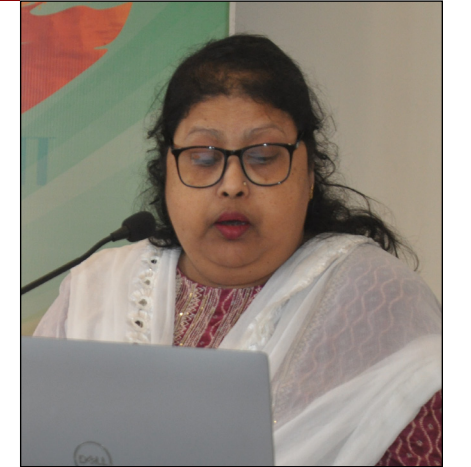
‘‘हिन्दी है मेरी जान, वतन की शान है हिन्दी, औरों से है जुदा मेरा सरताज है हिन्दी’’ इन चंद पंक्तियों से ही राष्ट्रभाषा हिन्दी की महत्व और उसकी प्राथमिकताओं के बारे में सहज महसूस किया जा सकता है। इसमें दो राय नहीं कि अपनी बोली में सरल स्वभाविकता, अपनापन और मधुरता के कारण ‘‘हिन्दी’’ आज दुनिया के दहलीज पर अपनी अमिट दस्तक दे रही है और हिंदुस्तान की जनप्रिय भाषा बनकर हमें गौरवान्वित भी कर रही है।

साहित्यिक एवं सांस्कृतिक रूप से इसी समृद्धशाली कारवां को आगे बढ़ाने के उद्देश्य से बिहार स्टेट पावर (होलिडिंग) कम्पनी एवं उसकी अनुषंगी कंपनियों के तत्वावधान में गत दिनों 14 सितम्बर 23 को राजधानी के ऐतिहासिक विद्युत भवन में ‘हिन्दी दिवस, 2023’ का भव्य आयोजन किया गया। विद्युत भवन-3 के बहुउद्देशीय सभागार में एक तरफ विद्युत कर्मियों के बीच स्वचरित काव्य पाठ तथा आशुवाक प्रतियोगिता से हिन्दी को एक नई धार मिली तो वहीं दूसरी ओर ऊर्जा परिवार के द्वारा रचित साहित्यिक संकलन ‘ऊर्जागन’ नामक नई पत्रिका को लोकार्पण कर कंपनी के अध्यक्ष-सह-प्रबंध निदेशक श्री संजीव हंस ने हिन्दी दिवस को यादगार बना दिया।



इस अवसर पर संबोधित करते हुए कार्यक्रम के बतौर मुख्य अतिथि बिहार स्टेट पावर (होलिडिंग) कंपनी के अध्यक्ष-सह-प्रबंध निदेशक श्री संजीव हंस ने ‘‘तकनीक से जुड़ने के कारण हिन्दी दुनिया में अपनी पहचान बनाने में कामयाबी के साथ अपनी कदम आगे बढ़ा रही हैं’’ यह उद्गार व्यक्त कर इस आयोजन को उंचाई प्रदान की। ससम्मान मंचासीन साउथ बिहार पावर डिस्ट्रीब्यूशन

कंपनी लिमिटेड / बिहार स्टेट पावर जेनरेशन कंपनी लिमिटेड के प्रबंध निदेशक श्री महेन्द्र कुमार तथा नॉर्थ बिहार पावर डिस्ट्रीब्यूशन कंपनी लिमिटेड / बिहार स्टेट पावर ट्रांसमिशन कंपनी लिमिटेड के प्रबंध निदेशक डॉ० आदित्य प्रकाश के सारगर्भित उद्बोधन सुन कर इस अवसर पर हिन्दी प्रेमी उत्साहित नजर आए। इस सत्र में मुख्य अतिथि द्वारा प्रतियोगी विजेताओं को सम्मानित भी किया गया।



# BIHAR in Power Sector

Bihar is one of the fastest growing states in power sector. The rate of increase in power consumption per year is highest among the states in India. As per census of 2011 the population of Bihar was 10,04,99,452 with per capita power consumption of 134 KWH and increased to 311 KWH in 2022-2023 with population exceeds a staggering about 13 Crores individuals along with proportionate increase in infrastructure in the field of Transmission and Distribution sectors. At present many programmes are being executed by North Bihar Power Distribution Company Limited (NBPDC) and South Bihar Power Distribution Company Limited (SBPDCL) viz; Schemes under RDSS, Agriculture connection and single window power connection to Industrial consumers/ Agricultural Feeders etc. This has increased power consumption to many folds which was also reflected in peak load demand met in September 2019 as it has increased significantly to 5891 MW. Considering the

growth rate of power consumption, new proposals have been made for construction of new GSS in Chhapra, Aurangabad, Gaya, West Champaran and Madhepura districts.

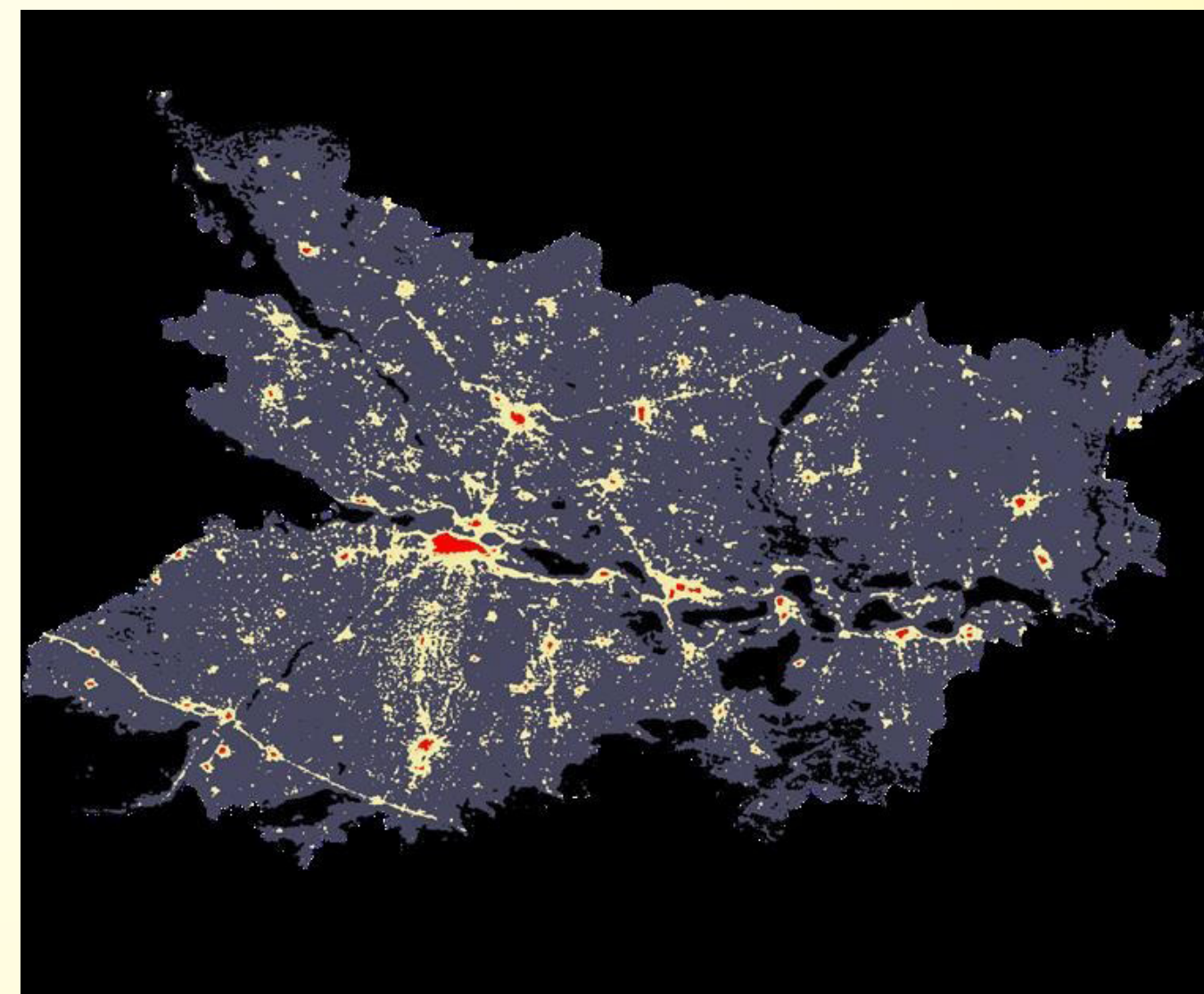
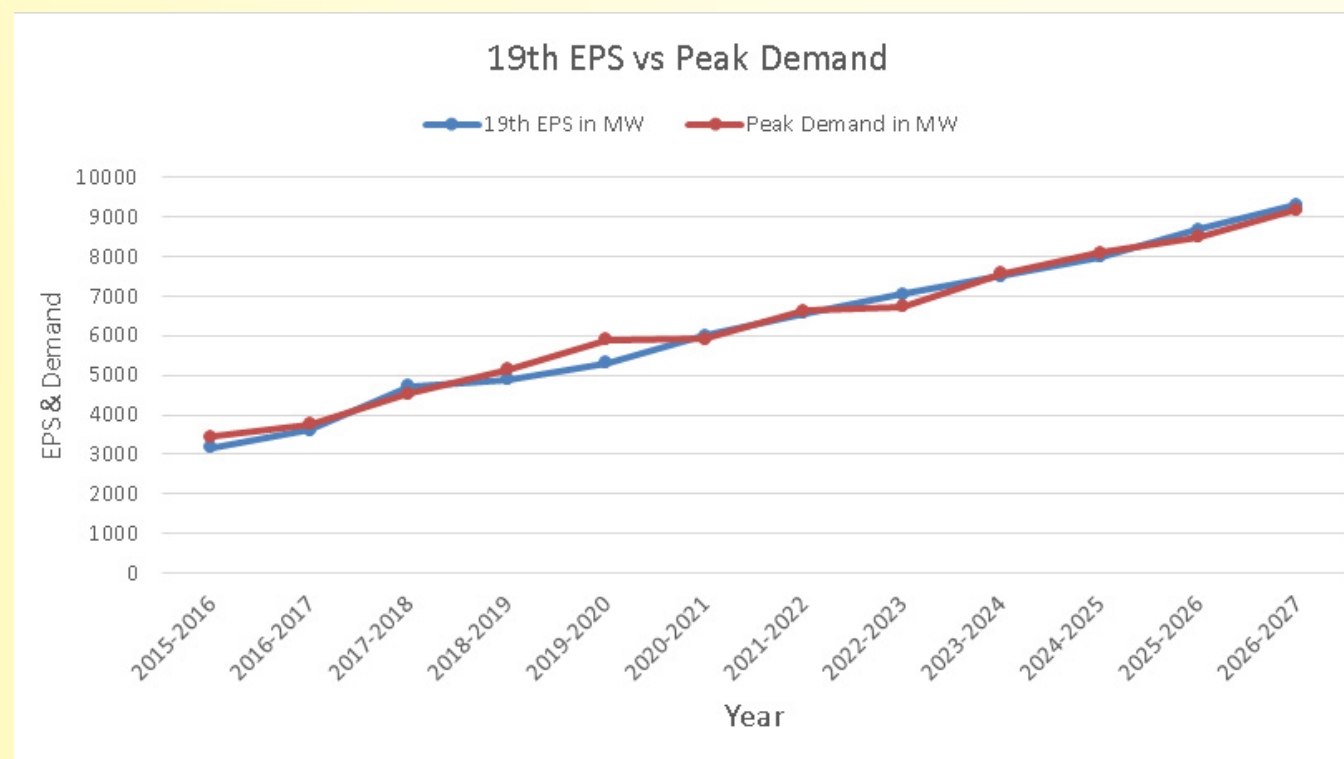
- Various transmission projects under Bihar State Power Transmission Company Limited are being executed for System Strengthening of Bihar Transmission System under the 2022-2027 Plan based upon the system studies and load flow studies made during 2022-2023 onwards.
- During the recent past it has been observed that the load growth & power demand in Bihar is growing very fast. As per EPS survey, the estimated demand was 7521 MW for the year 2023-2023 whereas the demand in Bihar reached to all time highest as 7576 MW on 25th July 2023.

According to the Night Time Light Atlas (NTL Atlas) prepared by ISRO's National Remote Sensing Center (NRSC) for the last decade (2012-2021), there has been an average increase of 43% in decadal change of Night Time Light (NTL) over India from space at the national level. While this increase has been 474% in the state of Bihar, which is the highest as compared to other states of the country. It is notable that the above indices have been prepared by NRSC on the basis of data from NASA and NOAA (National Oceanic and Atmospheric Administration).

This extraordinary achievement of Bihar is definitely the result of the wide-scale work done for strengthening and expansion in the power sector in the last decade. Among big states, this increase

in the last decade in Bihar is followed by Kerala at 119%, Madhya Pradesh at 66%, Uttar Pradesh at 61% and Gujarat at 58%. These statistics makes it clear that Bihar has worked towards electricity reform at a record pace in the last decade.

It may be noted that in the year 2012 itself, the Hon'ble Chief Minister of Bihar had expressed the commitment of the state government to improve the power situation of the state. Thereafter, in 2012 itself, five power companies were formed by reorganizing the Bihar State Electricity Board. The state government has not only provided administrative and financial assistance in implementing power reform projects in the state on priority, but has also taken several positive steps for the convenience of power consumers.



# Photo Gallery



1, 2 & 3  
Diwali 2022 celebrations in Vidyut Bhawan



4, 5, 6 & 7  
Holi 2023 celebrations  
in Vidyut Bhawan



8 & 9. Dawat-E-Iftar 2023  
10 & 11. Independence Day and Republic Day  
Celebrations in Vidyut Bhawan  
12 & 13. Indoor Games organized in Vidyut Bhawan





- 14. Christmas Celebrations in Vidyut Bhawan.
- 15. Digitech Conclave 2023.
- 16, 17 & 18. Workshop on Sustainable Energy Management and Energy Laws.
- 19. Engineer's Day 2023 Celebrations.
- 20. Hindi Diwas 2023 Program.



कार्यपालक अभियंता व स्मार्ट मीटर लगाने वाली कंपनी के अधिकारियों को उपभोक्ता जागरूकता अभियान चलावे का भी निर्देश दिया गया।



हमारा आधार... ऊर्जस्वित बिहार