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January - March 2023, Vol. 78

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House Journal of Numaligarh Refinery Limited

NUMALIGARH
REFINERY
LIMITED

A GOVERNMENT OF INDIA ENTERPRISE



Inauguration of
India - Bangladesh Friendship Pipeline



Inauguration of NRL Centre



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Rodali : January - March 2023

Published by Corporate Communications Department
for Numaligarh Refinery Limited

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Views expressed in this journal do not necessarily
reflect the views of the Management

Design & Production: Exclusive Advertising Pvt. Ltd.

From the Desk of the Editor

Dear Readers,

Quite a few landmark events defined the eventful past quarter. The first was the formal inauguration of NRL Centre, our Company's iconic Corporate Office building in the heart of Guwahati, the capital city of Assam and the gateway to the North East on 23rd January. We were privileged to have the Hon'ble Union Minister for Petroleum and Natural Gas, to do the honours in the presence of Hon'ble CM of Assam and several other Ministers and dignitaries. The Hon'ble Minister also participated in run up events to India Energy Week 2023 (IEW 2023) including signing an MoU with Govt. of Assam for setting up 3 bamboo nurseries, interaction with farmers of Assam Bio Refinery, flagging off a fleet of EV scooters, and a demo-run of Inland Water Vessel powered by Methanol Blended Diesel (MD15).

In another historic event on 18th March, 2023, the Hon'ble Prime Ministers of India and Bangladesh jointly inaugurated the India Bangladesh Friendship Pipeline via video conference. This first cross-border pipeline to Bangladesh built by NRL is one of the most visible manifestations of 'Act East Policy' of the Government of India and aims at fostering regional cooperation and promoting energy security in the region.

NRL achieved its highest annual crude processing at 3,091 TMT since commissioning of the Refinery in October 2000; exceeding its design refining capacity of 3.0 MMTA. This accomplishment is a reflection of our Company's commitment to operational excellence and setting new benchmarks for the industry.

NRL participated in India Energy Week 2023, the biggest energy sector extravaganza held from 6th to 8th February, 2023 in Bengaluru that provided a vibrant learning, sharing and networking platform with national and global giants in the energy and allied sectors in attendance. NRL jointly put up a stall with its parent Company Oil India Limited to showcase its initiatives in diverse fields aligned with the objectives and vision of IEW 2023.

We warmly welcomed Mr. Sanjay Choudhuri as Director (Finance), NRL. With his rich experience in the Oil and Gas Industry, he brings to the table invaluable knowledge and expertise that would contribute significantly to NRL's growth and financial prowess.

As we embrace the opportunities of 2023, let us renew our commitment to creating a sustainable, prosperous, and inclusive future for all.

Best wishes and regards,

Madhuchanda Adhikari

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NumaligarhRefineryLimitedAssam

NRL records highest ever annual Crude Oil processing; celebrations galore

The 15th of March 2023 was a Red Letter Day for NRL as the Refinery surpassed its design capacity of 3 MMTPA to record highest ever processing of 3002 TMTPA of Crude Oil since the commissioning of the Refinery in October 2000.

The Company erupted in joy and celebrations with cake-cutting in various plant unit control rooms of the Refinery as well as at the Corporate Office in Guwahati.



Numaligarh Admin. Building



Guwahati Corporate Office



Technical Service



Fire & Safety Department



DHDH



SDU



OM&S



MSP



DCU



HCU



H2U



CCR



DCU



Wax Control Room

Highlights of NRL's performance during Q4 of FY 22-23 and FY 2022-23

Capacity Utilisation

NRL's crude throughput during the fourth quarter of the year was 733 TMT reflecting a capacity utilisation of 98%. During the year, NRL's crude throughput was 3,091 TMT, which is better than the MoU target of 2,945 TMT and 18% higher than previous year's 2,624 TMT.

During FY 2022-23, NRL has achieved the following significant achievements –

- Highest ever operational availability of the refinery at 99.42%
- Highest ever HSD production 2,135 TMT, improvement 24% over previous year
- Highest ever MS production 638 TMT, improvement of 8% over previous year
- Highest ever Wax production at 47.7 TMT, improvement of 3% over previous year.
- Highest ever LPG Bottling at 66 TMT, improvement of 13% over previous year.

Production Efficiency

During FY 2022-23, highest ever Distillate Yield was achieved at 87.69%, which is better than MoU target of 86.5%. Distillate yield during the previous year 2021-22 was 85.69%. Distillate yield during Q4 was 86.43%.

During the year, best ever Specific Energy Consumption (SEC) was achieved at 61.66 MBN which was better than MoU target of 62.5 MBN. SEC during the previous year 2021-22 was 63.51 MBN. SEC during Q4 was 60.58 MBN.

Energy Intensity Index (EII) during the year was 82.31%. EII during the previous year 2021-22 was 84.7%. EII recorded during Q4 was 83.76%.

Marketing Performance

- During FY 2022-23, highest ever product sales of 3,019 TMT.
- Highest ever HSD sales of 2,039 TMT.
- NSPL throughput was 1,416 TMT.

Performance Highlights

- During FY 2022-23, NRL exported 50 TMT of HSD to Bangladesh. Wax export was 189 MT. Total value of export was approximately USD 49 million.

Capital expenditure

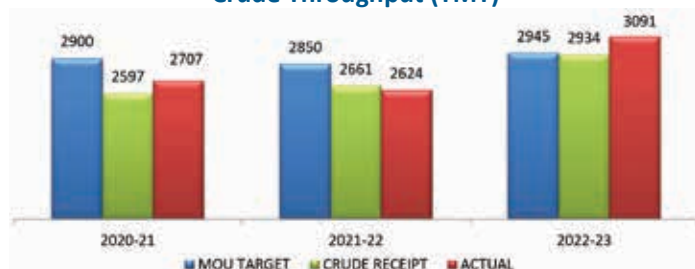
Highest ever Standalone Capital expenditure at Rs. 6,615 Crore (prov.) was recorded during FY 2022-23 marking an improvement of 83% over previous year. In addition to the project Capex, NRL has made equity of Rs. 113 Crore in JV – IGGL.

Project completed:

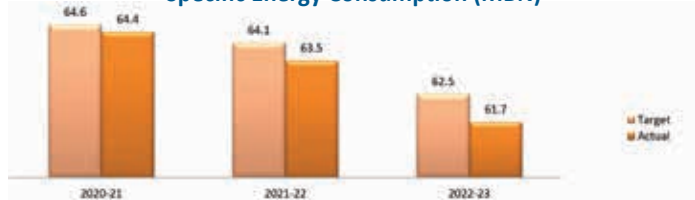
A. Indo- Bangla Friendship Pipeline:

Construction of a 130 km long product pipeline to transport petroleum products from NRL's Marketing Terminal in Siliguri to Bangladesh Petroleum Corporation's depot at Parbatipur was completed in Dec'22. Hon'ble Prime Minister of India and Hon'ble Prime Minister of Bangladesh inaugurated the India Bangladesh Friendship Pipeline on 18.03.2023 via video-conference.

Crude Throughput (TMT)



Specific Energy Consumption (MBN)



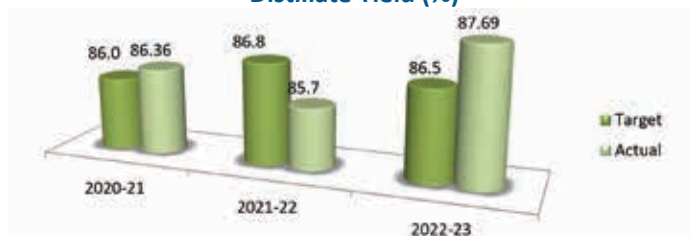
Numaligarh Refinery Expansion Project (NREP)

Numaligarh Refinery Expansion Project (NREP) has achieved steady progress during the period from January to March 2023. On the engineering front, 90% model review cycle has commenced for the process units and offsite facilities. Major procurement has been completed and large nos. of equipment & bulk materials are being progressively received at project site. **DHT reactor, the first ODC/OWC**

B. Progress status of major ongoing projects (as on 31st March'2023):

Project	Cost (INR CR)	Physical Progress (%)	Financial Progress (%)	Anticipated Completion
NREP – 6 million refinery	18,968	31.1	24.59	January, 2025
NREP – PNCPL & COIT	9,058	39.2	54.27	January, 2025
2G Bio Refinery (JV-ABRPL – 50% Equity)	3,250	82.1	72.06	Oct' 2023
North-East Gas Grid (JV-IGGL – 20% Equity)	9,265	70.01	43.24	Mar' 2024

Distillate Yield (%)



consignment was dispatched from ISGEC, Dahej, Gujarat during the period and has now entered the Assam border after handover at Haldia port. An additional bridge is under construction at the Kaliyani river for transportation of the ODC/OWC consignment. Also, dredging activities are being done at the Dhansiri river by IWAI to facilitate required draft for smooth passage of the equipment. At site, piling activities are nearing completion and civil & structural erection activities are now in progress.



Tankage Job



Civil & structural Job in DHT unit



Dredging job is in progress in Dhansiri River



Construction of additional bridge in progress on Kaliyani river



Hon'ble Union Minister MoPNG, Shri Hardeep Singh Puri tweets on NRL's performance for the FY 2022-23

Events and Inaugurations



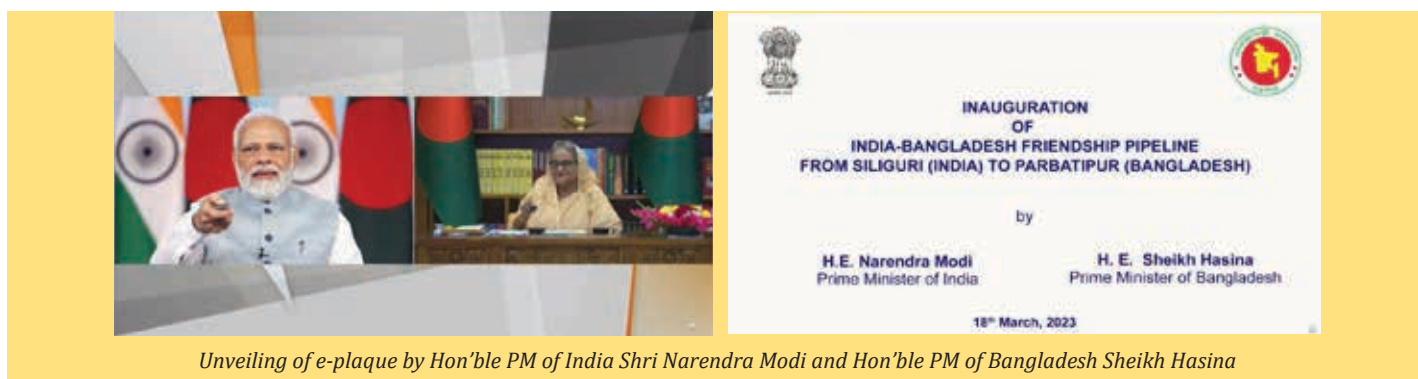
Hon'ble PM of India and Bangladesh jointly inaugurate the India-Bangladesh Friendship Pipeline by unveiling of e-plaques

In a landmark moment, Hon'ble Prime Minister of India, Shri Narendra Modi and Hon'ble Prime Minister of Bangladesh, Sheikh Hasina on 18th March 2023 jointly unveiled e-plaques marking the inauguration of the India Bangladesh Friendship Pipeline via video conference. Hon'ble Union Minister for Petroleum and Natural Gas, Govt. of India, Shri Hardeep Singh Puri ; Hon'ble CM of Assam Dr. Himanta Biswa Sarma and Hon'ble MoS for Petroleum and Natural Gas, Govt. of India Shri Rameswar Teli also joined the proceedings online along with Secretary, Ministry of External Affairs, Govt. of India, Mr. Vinay Mohan Kwatra, Chairman NRL and CMD OIL Dr. Ranjit Rath and MD NRL Mr. B J Phukan. An AV highlighting the noteworthy features of the pipeline and its significance for the two countries

was showcased during the inauguration ceremony. The inauguration ceremony was telecast live from PMO India social media handles.

This cross-border pipeline of capacity 1 Million Metric Tonnes Per Annum(MMTPA) built by NRL will be supplying High Speed Diesel(HSD) from NRL's Marketing Terminal at Siliguri to Bangladesh Petroleum Corporation's depot at Parbatipur in Dinajpur District, Bangladesh. The total length of this pipeline is around 132 km, of which almost 127 KM is in Bangladesh, while 5 KM is in India. The pipeline will initially supply HSD to 7 Districts in Northern Bangladesh.

The pipeline has been built at a cost of INR 377 Crore, of



Unveiling of e-plaque by Hon'ble PM of India Shri Narendra Modi and Hon'ble PM of Bangladesh Sheikh Hasina

which, over INR 285 Crore has been spent for construction of the pipeline in Bangladesh portion by Govt of India under grant assistance. The balance cost of INR 92 Crore for constructing the Indian portion of the pipeline has been borne by NRL.

IBFPL is the 2nd cross border pipeline between India and her neighbours and the 1st cross border pipeline between India and Bangladesh. NRL has been supplying HSD to Bangladesh through railway rakes since the year 2015. Way back in the year 2007, river barges were used to transport a few consignments of Diesel via river route which however had to be discontinued due to logistic and other constraints.

Prior to the construction of the pipeline, High-Speed Diesel was being supplied by NRL through rail wagons along a 512 km route. With the completion of this pipeline, faster, economical and eco-friendly mode of transportation of High Speed Diesel to Bangladesh will be ensured.

While constructing the pipeline, the latest state of the art technology has been used, including Horizontal Directional Drilling (HDD) for crossing riverbeds and railway tracks. Sectional valve stations have been constructed at five locations along the pipeline to control the flow of High-Speed Diesel. The pipeline operations are fully automated with advanced SCADA systems for remote monitoring and advance leak detection to ensure safe transfer of fuel.

Earlier, the ground-breaking ceremony of the pipeline was witnessed by the Hon'ble Prime Minister of India Shri Narendra Modi and the Hon'ble Prime Minister of Bangladesh Sheikh Hasina on 18 September 2018.

This is yet another step towards operationalizing Act East Policy of Govt of India. NRL has already set its eyes on exporting Diesel to Myanmar as a next step.



Hon'ble Prime Ministers of India and Bangladesh deliver their address during the virtual inauguration of the IBFPL in the presence of Union Minister P&NG, CM of Assam, MoS P&NG, Secy MEA, Govt of India, CMD OIL and MD NRL

IBFPL inauguration function at SMT

SMT was decorated in a befitting manner to celebrate the inauguration of IBFPL. A function was organized in Siliguri to mark the IBFPL inauguration. Director Finance NRL, Mr. Sanjay Choudhuri, Independent Directors of NRL Board Mr. Sudip Pradhan and Priyambada Keshri, senior officials from OIL, BPCL, EIL and NRL were present at the event at SMT site. The live feed of the virtual inauguration was telecast in screens and witnessed by everyone present at the venue of the function. Later, DF along with independent Directors ceremonially inaugurated the IBFPL control room.



Directors, Senior management and employees of NRL congregate at Siliguri Marketing Terminal to watch the live feed of IBFPL inauguration

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IBFPL inauguration function at Parbatipur, Bangladesh

Roads and buildings wore a festive look to celebrate the inauguration of IBFPL in Parbatipur. A function was organized at the Receipt Terminal which started before the virtual inauguration by both the Hon'ble Prime Ministers of India and Bangladesh. MP Dinajpur, DC Dinajpur & other district officials were also present along with 3 Directors from Bangladesh Petroleum Corporation.



Directors of Bangladesh Petroleum Corporation and Country Head, NRL arrive at Parbatipur, the venue for the inauguration in Bangladesh



Picture Speak



Hon'ble Union Petroleum Minister Shri Hardeep Singh Puri inaugurated the OIL/NRL stall at the Ethanol Pavilion of Auto Expo held in Greater Noida on 13th January, 2022. He was welcomed by Chairman NRL and CMD OIL Dr. Ranjit Rath. The stall showcased NRL's 2G Bio Refinery being implemented in Numaligarh as a JV with Finnish collaborators.

NRL Centre inaugurated

Standing tall with its signature design in the heart of the city of Guwahati, NRL Centre, the iconic Corporate Office Building of NRL was ceremonially inaugurated with much fanfare on 23rd January 2023. The honours were done by Hon'ble Union Minister of Petroleum and Natural Gas, Housing and Urban Affairs, Govt. of India Shri Hardeep Singh in the gracious presence of Hon'ble Chief Minister of Assam, Dr. Himanta Biswa Sarma; Hon'ble Minister of State for Petroleum and Natural Gas, Labour and Employment, Govt. of India Shri Rameswar Teli; Hon'ble Minister of Forests, Implementation of Act East Policy and Welfare of Minorities, Govt. of Assam Sri Chandra Mohan Patowary; Hon'ble Minister, Guwahati Development Deptt, Govt. of Assam Shri Ashok Singhal; Hon'ble MP, Guwahati, Smt. Queen Oja; CMD OIL and Chairman NRL Dr. Ranjit Rath; MD NRL Shri Bhaskar Jyoti Phukan and other senior officials and employees of NRL.

The monumental tower located at GS Road near Ganeshguri was aptly decked up for the occasion; dazzling with multi-coloured sharpie lights touching its façade and beaming into the night sky; a feast for the eyes for the denizens of Guwahati. It was elan that NRL Centre announced its presence in the Gateway to the North East of India, Guwahati; a manifestation of the rising growth and prosperity of the region.



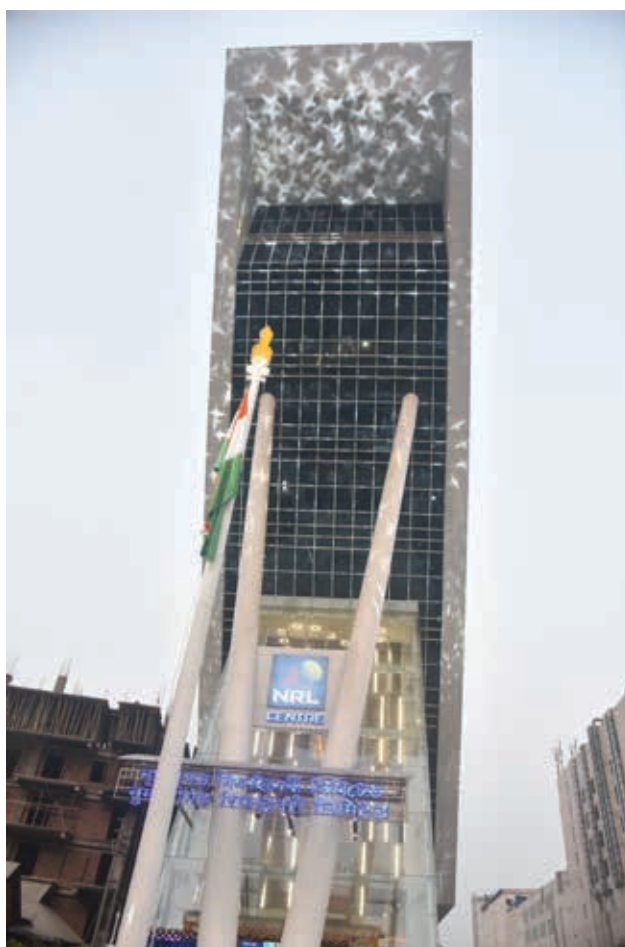
About NRL Centre

The G+9 storey high-rise building with underground basements. The building has been conceptualized & designed by world-

renowned Architect and Padma Bhushan awardee Arch. Hafeez Contractor. The total built-up area of the building is 18,049 sq. meter with Floor Area Ratio (FAR) of 1.46. The structural design of the building has been vetted by IIT Bombay & the building has been designed considering various Indian code provisions for seismic Zone-V.



Hon'ble Union Minister of Petroleum and Natural Gas, Housing and Urban Affairs, Govt. of India Shri Hardeep Singh Puri Inaugurates the iconic NRL Centre



NRL Centre decked up for inauguration

The magnificent and towering glass façade design of the building mirrors the metaphorical rising sun imbibed in the NRL logo. The building incorporates the registered Corporate Office of NRL along with Joint Venture (JV) companies like Indradhunush Gas Grid Ltd. (IGGL), Assam Bio Refinery Ltd. (ABRPL), Brahmaputra Cracker and Polymer Ltd. (BCPL) and the Centre of Excellence for Energy Studies (CoEES) division of NRL's parent company Oil India Ltd. (OIL).

The building houses modern office amenities like multiple conference halls with state-of-the-art video conferencing facilities, meeting rooms, auditorium, library, and cafeteria.

Out of the total 9 stories, only 5 stories, from 5th floor to 9th floor is being used as office space. The lower floors serve as parking space cum utilities. There are a total of 260 dedicated car parking slots inside the building spread between 4th, 3rd and 2nd floor and two basement levels with electro-mechanized car lifting system.

An Integrated Building Management System (IBMS) with a centralized control room has been installed to enhance safety

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and security of NRL Centre. A network of CCTV cameras, fire / smoke detection & alarm system, public address system, bio metric Access Control System are integrated with the IBMS. The building is also equipped with X-ray machines, door frame metal detectors and handheld metal detectors for security screening at the two entrances.

The fire hydrant & sprinkler system has adequate water reservoirs and pumping systems. Multiple electric as well as diesel driven fire water pumps along with jockey and booster pumps have been installed. The building has fire water storage tanks of 6 lakh litre capacity.

This iconic tower in India's North East aspires to achieve star rating from GRIHA (Green Rating for Integrated Habitat Assessment) and is the first of its kind in NER to embrace and fulfill various Green Building norms like rain water harvesting system, efficient use of energy, use of renewable energy with in-house solar plant at terrace, recycling of waste water using sewage treatment plant, using low energy embedded materials, optimum use of day light etc. GRIHA Council had awarded NRL Corporate Office Building Project for 'Exemplary Demonstration of Site Management' during the GRIHA Summit 2016.

NRL organizes Run-up Events for India Energy Week 2023

In a run up to India Energy Week 2023, the biggest Energy sector extravaganza to be organized in Bengaluru under the patronage of the Ministry of Petroleum & Natural Gas from 6th - 8th February, 2023; NRL organized several events in Guwahati on 23rd and 24th January 2023.

I. MoU signing between NRL and Office of the Principal Chief Conservator of Forest, Govt. of Assam for setting up of bamboo nurseries

On 23rd January 2023, an MoU was signed between NRL & Government of Assam to set up 3 Bamboo Nurseries at NRL Centre, immediately after the inauguration of the iconic building.

The signatory on behalf of Govt of Assam was Principal Chief Conservator of Forest, Mr. M. K Yadavawhile NRL was represented by Sr. CGM(CA), Mr. Nikunja Borthakur. The signing was witnessed by Hon'ble Union Minister of Petroleum and Natural Gas and Minister of Housing and Urban Affairs, Government of India Shri Hardeep Singh Puri ; Hon'ble Chief Minister of Assam Dr. Himanta Biswa Sarma; Hon'ble Minister of State for Petroleum and Natural Gas, Labour and Employment, Govt. of India Shri Rameswar Teli ; Hon'ble Minister of Forests, Implementation of Act East Policy and Welfare of Minorities, Govt of Assam Sri Chandra Mohan Patowary ; CMD OIL and Chairman NRL Dr. Ranjit Rath, MD NRL Shri Bhaskar Jyoti Phukan and other senior officials of NRL

To be set up in the districts of Golaghat, Nagaon and Sonitpur in Assam, each nursery will cover an area of 5 hectare, The nurseries will carry out secondary hardening of tissue cultured bamboo saplings and increase number of saplings using macro proliferation methods. This would ensure continuous supply of good quality sapling which are disease free and increase productivity.

Bamboo demand is expected to increase with the

upcoming 2nd generation ethanol plants which will use bamboo as feedstock. Bamboo cultivation brings in several societal benefits and is termed as "Green Gold" and the timber of the new age.

During its growth, bamboo absorbs CO2 from the air and releases O2 into the air. As bamboo grows very fast, it is an excellent means to create a carbon sink. One hectare of bamboo plantation can absorb 17 Ton CO2 from the air per annum. The three bamboo nurseries will generate saplings that can be planted on 15,000 hectares of land area, thus will create a carbon sink that will fix 2.6 Lakh Ton CO2 from the air/ Year.



MoU signing between NRL and Govt. of Assam for setting up 3 bamboo nurseries

II. Interaction with farmers and flag off of fleet of EV scooters

On 23rd January '23 evening following the inauguration of NRL Centre, another run up event to IEW 2023 was held at Vivanta, Guwahati. The meet started with a lively RJ interaction with Hon'ble Union Minister of Petroleum and Natural Gas, Housing and Urban Development Shri Hardeep Singh Puri who propagated the objectives of IEW 2023.

Thereafter, the Hon'ble Union Minister interacted

with Bamboo farmers of Assam Bio Refinery to understand about the nitty gritty of bamboo farming and acknowledge their contribution in the country's march towards bio fuel.



Interaction with bamboo farmers

This was followed by flag off of a fleet of EV scooters by Bikoze, a Startup supported by NRL which provides electric mobility as a service (E-MAAS), offering end to end logistics support on electric and hybrid 2 wheelers to enterprises in last mile delivery sector.

Later the Hon'ble Minister along with Hon'ble MoS, Petroleum and Natural Gas, Shri RameswarTeli and Chairman NRL and CMD OIL Dr. R Rath addressed the Media.



Hon'ble Union Minister for Petroleum and Natural Gas Shri Hardeep Singh Puri interacts with the Media

III. Demo-Run of Inland Water Vessel powered by Methanol Blended Diesel (MD15)

Following the run up events to IEW 2023 on 23rd January'23, another run-up event, a 'Low carbon cruise on Mahabahu Brahmaputra' was organized by NRL on 24th January, 2023 at Uzan Bazaar Jahaj Ghat on the banks of the mighty Brahmaputra.

A demo run on a river boat fuelled with MD-15 (15% Methanol blended HSD) as fuel was organized with

the Hon'ble Union Minister MoPNG Shri Hardeep Singh Puri and Hon'ble MoS MoPNG Shri RameswarTeli on board along with Chairman NRL Dr. R Rath, MD NRL Mr. B J Phukan and a host of dignitaries.



The boat ride was done on a 50-seater motor launch marine vessel named SB Gangadhar equipped with two Diesel engines each of 105 hp capacity.

Methanol is a low carbon hydrogen carrier fuel produced from high ash coal, agricultural residue, CO₂ from thermal power plants and natural gas. It is the best pathway for meeting India's commitment to COP 21.

NITI Aayog's 'Methanol Economy' programme is aimed at reducing India's oil import bill, greenhouse



gas (GHG) emissions, and converting coal reserves and municipal solid waste into methanol.

Although slightly lower in energy content than petrol and diesel, methanol can replace both these fuels in the transport sector (road, rail and marine), energy sector (comprising DG sets, boilers, process heating modules, tractors, and commercial vehicles) and retail cooking (replacing LPG [partially], kerosene and wood charcoal).

Methanol is a cost-effective alternative marine fuel. It is less costly than other marine fuel and is economical

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in terms of developing the shoreside storage and bunkering infrastructure. The cost to convert vessels to run on methanol is significantly less than other alternative fuel conversions with no need for expensive exhaust gas aftertreatment and, as a liquid fuel, only minor modifications are needed for existing storage and bunkering infrastructure to handle methanol. The cruise was followed by an interaction with the media.



NRL Participates enthusiastically in IEW 2023

Team NRL participated enthusiastically in India Energy Week 2023, the biggest ever Energy Extravaganza held in Bengaluru during 6-8 Feb 2023 on the theme **Growth. Collaboration. Transition.** The mega event was inaugurated by Hon'ble PM of India Shri Narendra Modi in the presence of Hon'ble Union Minister for Petroleum and Natural Gas Shri Hardeep Singh Puri, Hon'ble MoS, Petroleum and Natural Gas Shri Rameswar Teli, Hon'ble CM of Karnataka Shri B S Yeddyurappa and was attended by a galaxy of distinguished names in the Oil and Gas industry, both nationally and globally.

Held under the patronage of the Ministry of Petroleum & Natural Gas, Government of India and officially supported by the Federation of Indian Petroleum Industry (FIPI), India Energy Week convened more than 500 international speakers, over 30,000 energy professionals and 8,000 international delegates from more than 100 countries, to discuss India's pioneering approach towards diversifying its energy mix.

As India emerges as the epicentre of the global energy landscape and the energy sector represents one of the most critical components of India's growth, the success of India Energy Week 2023 has showcased India's achievement as a catalyst for global economic growth with billions of dollars of investment needed to facilitate India's energy transition and achieve its net-zero goals.

IEW 2023 also drew around 650 exhibiting companies at the Bangalore International Exhibition Centre (BIEC). An unmatched opportunity for buyers and sellers to meet, network, and engage with the entire energy value chain, including leading NOCs, IOCs,

NECs, and IECs and companies operating within alternative & renewables, utilities & power generation, construction & industrialization, technology & services, was provided.

NRL jointly put up a stall with its parent Company Oil India Limited to showcase its initiatives in diverse fields aligned with the objectives and vision of IEW 2023.

The NRL OIL stall garnered a heavy footfall with dignitaries and National and Global experts visiting the stall and evincing keen interests on the initiatives undertaken by OIL – NRL especially its road map towards energy transition and achieving net -zero, a goal spearheaded by the Ministry of Petroleum and Natural Gas, Govt of India. NRL also showcased a working model of its upcoming Bio Refinery, which is a definitive step towards our nation's focus on bio fuels and its role in leading the global transition to clean and green energy.

NRL also participated in the Assam Pavilion at the IEW



Participating officials at IEW 2023, Bengaluru

Exhibition centre along with other state and central PSUs having the Govt of Assam as its stakeholders viz. APL, BCPL, PBGL etc.



MD NRL Mr. B J Phukan interacting with guests at the OIL -NRL Pavilion of IEW 2023



Glimpses of OIL NRL Stall at IEW 2023

Hon'ble Union Minister for Petroleum and Natural Gas, Government of India, Shri Hardeep Singh Puri, graced the OIL NRL Pavilion at India Energy Week.



CMD OIL and Chairman NRL Dr. R Rath briefing Union Petroleum Minister about NRL's Bio Refinery, the working model of which was displayed at the OIL/NRL Stall in IEW 2023



Dr. Rath also addressed the delegates of the Strategic Conference Leadership Panel and along with the other esteemed speakers, shared essential perspectives on the theme 'Outlook: The Energy System of the Future'.

Two Startups supported under NRL's Startup program iDEATION viz. M/s Chroma Bio Tech and M/s Zerund Brick participated in the Startup Pavilion of IEW 2023

NRL hosts CHT Activity Committee Meet on Bio Fuels

NRL in collaboration with CHT organised the day-long 'CHT Activity Committee Meet on Bio Fuels' at Numaligarh on 20th March 2023.

The inaugural session was presided over by MD NRL Mr. B J Phukan as Chief Guest. Director (CHT), Director (Finance) NRL Mr. S Choudhari and a host of technocrats and experts from across the industry attended the meet and shared their expertise and skill while deliberating on



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the theme in four technical sessions which followed the inaugural session.

The event is a flagship program of the Centre of High Technology (CHT) organised on the theme “Biofuels- A better fuel for cleaner future”. More than 50 Delegates from Industries, R&D and academia, from different parts of the country attended the Meet. Also, 20 technical presentations were covered in 4 technical sessions.



Few glimpses of CHT Activity Committee Meet on Bio Fuels at Numaligarh

Picture Speak



NRL takes center stage at Y20 event in IIT Guwahati on 7th February, 2023, showcasing their sustainable technologies & developments.



Release of NRL Vigilance Journal, Chaitanya by CVO Mr. A Saran, MD Mr. B J Phukan and DF Mr. Sanjay Choudhari at OIL office in New Delhi on 23rd March 2023

74th Republic Day celebrations

NRL celebrated the 74th Republic Day in all locations of the Company on 26th January, 2023. At Numaligarh, MD Mr. B. J. Phukan graced the celebrations as Chief Guest. He unfurled the national tri-colour, paid homage to the martyrs of the freedom movement and received

the ceremonial guard of honour. Later, he presented the security awards to CISF personnel. This was followed by high-spirited cultural performances by the troupes celebrating the glorious history of our nation.



Republic Day celebration at Corporate Office, Guwahati



Republic Day celebration at SMT

MoUs and Collaborations

NRL and Matheson Tri- Gas Inc., USA sign agreement for implementation of the 95KTPA Hydrogen Generation Unit

NRL and Matheson Tri-Gas Inc., USA signed an agreement for the implementation of the 95 KTPA Hydrogen Generation Unit on 22nd February, 2023, as a part of the ongoing Numaligarh Refinery Expansion Project. The agreement was signed at NRL Centre, Guwahati in the presence of the MD NRL, Mr. B J Phukan, Director (Finance) NRL, Mr. Indranil Mittra, Senior Vice President of Matheson, Mr. Raghu K. Menon and other senior officials of NRL and Matheson.

The signing of the agreement will facilitate the implementation of a world-class unit to produce syngas and hydrogen at Numaligarh, Assam. This historic agreement was awarded on a 'job work' basis, which is an

emerging concept in India, making NRL one of the leaders in implementing such a model in the country.

This partnership will also see a substantial foreign investment in the Northeast by Matheson, amounting to nearly Rs. 1,600 Crore, and is expected to create employment opportunities within the region both during the construction as well as operational phases. Speaking on the occasion, MD NRL, Mr. B J Phukan acknowledged the potential for the development of the region, as a result, of the establishment of this unit. He also congratulated Matheson for being successful in the bidding process and thanked them for their committed investment in the project.



MoU Signing Ceremony

MoU signed between NRL and Govt. of Assam for setting up High-Performance Sports Training and Rehabilitation Centres



On 30th March 2023, NRL inked an MoU with the Government of Assam for setting up High-Performance Sports Training and Rehabilitation Centres at Jorhat. This is path-breaking initiative of Govt. of Assam to promote sports and its greater vision of making Assam the sports capital of the country. The MoU is expected to have a cascading effect on the sports ecosystem of the state of Assam and would be a huge boost for identifying and nurturing sporting talents to reach their potential, creating many more shining stars of the likes of Ms. Lovlina Borgohain and Ms. Hima Das for the State of Assam.

Director of Sports and Youth Welfare, Govt of Assam, Mr. Nibedan Das Patowary signed the MoU on behalf of

the Government of Assam while CGM(HR) Mr. Kajal Saikia signed the MoU on behalf of NRL.



A glimpse of MoU Signing

In the same function, Govt. of Assam also signed 2 other MoUs, one with Abhinav Futuristics Pvt. Limited and the other with OIL. Each High Performance Sports Training Centre will be established at a projected cost of Rs 23.78 Crore with an additional operational maintenance cost of approximately Rs. 2.49 Crore. The State government will fund the expenses of the Guwahati centre while OIL and NRL will contribute in setting up the Jorhat Centre through their CSR funds.

The MoU Signing Ceremony was attended by Assam Chief Minister Dr. Himanta Biswa Sarma, VC of Abhinav Futuristics Pvt. Ltd. Mr. Abhinav Bindra, Chairman NRL and CMD OIL Dr. Ranjit Rath and MD NRL Mr. B J Phukan.

Assam Cultural Affairs Minister Shri Bimal Bora, Additional Chief Secretary Sports and Youth Welfare Mr. Maninder

Singh, Principal Secretary to the Chief Minister Mr. Samir Kumar Sinha and other dignitaries including some budding players were present on the occasion.



Chairman NRL and CMD OIL Dr. Ranjit Rath, MD NRL Mr. B J Phukan, Director (HR) OIL Mr. Ashok Das and Additional Chief Secretary Sports and Youth Welfare Mr. Maninder Singh with Olympic Gold medalist Mr. Abhinav Bindra

Pipeline News

Bhumi Pujan ceremony for Admin Building, Crude Oil Import Terminal (COIT)



Bhumi Pujan and coconut breaking ceremony for Admin Building of Crude Oil Import Terminal (COIT) was carried out in presence of MD Mr. B J Phukan on 12th January'2023.

Agreement signed with Paradip Phosphate Limited



An agreement was signed between NRL & Paradip Phosphate Limited (PPL) for providing RoU within PPL premises on lease rental basis on 13th January'2023.

First Bitumen road at COIT



First Bitumen road at Crude Oil Import Terminal (COIT) completed on 21st February 2023.

Jia Bharali HDD site visit by MD



MD, Mr. B J Phukan visited Jia Bharali HDD site near Jamuguri (Assam) and mainline welding site near Tezpur (Assam) on 11th March'2023

CSR Snippets



Foundation stone laying for construction of village road by Hon'ble MLA, Sarupathar, Shri Biswajit Phukan on 24th March, 2023



Handing over of Ambulance to Khumtai Model Hospital on 27th February, 2023



Ongoing construction work at Dusutimukh State Dispensary, Golaghat



Development of Solar cold Storage site at Panbari, Bokakhat



Installation of 400 Solar street lights in Golaghat and Dibrugarh District during March'2023.

Sports Corner

NRL officer shines in 32nd PSPB Inter Unit Chess Tournament

Mr. Kesavarapu Uma Sai Mahesh, Officer (Operations) NRL has bagged the prize of best Unrated Player of the Tournament in the 32nd PSPB Inter Unit Chess Tournament held from 8th to 12th March 2023 at Pune.

Hosted by IOC this year, the event saw a total of 74 players including 24 GM/IM vying for the title. 15 teams participated in the team event - one of the highest participation in the history of the tournament.



NRL Women team grab the winner spot at the 4th PSPB Inter Unit Squash Tournament

NRL ladies have done it yet again. The team won the 4th PSPB Inter Unit Squash Tournament, 2022-23, hosted by Petronet LNG Limited (PLL) at Jaipur from 13th to 17th March 2023. The team comprising of **Ms. Mansi Motwani, Ms. Pragya Deka & Ms. Diixita Gulgulia** won the gold medal. **Ms. Pragya Deka** was also judged as player of the tournament in women's category. The Women's open title championship was won by **Ms. Mansi Motwani**.



Fire & Safety Snippets

Activity Highlights

1. National Road Safety Month was observed from 18th January 2023 to 17th February 2023.
2. ESA-2023 as per MSIHC Rules was carried out by QSS India Limited from 13st to 15th February 2023.
3. Mutual Aid Review meeting among IOCL Guwahati Refinery, NRL and OIL India Pipeline Division was held at Numaligarh on 24th January 2023.
4. 52nd National Safety Week was celebrated from 4th March- 10th March 2023. The theme of this year was 'Our Aim- Zero Harm'.

Activities carried out during Road Safety Month

- 'Walkathon' was organized on 21st January 2023 inside the Township to create Road Safety Awareness among the residents of NRL Township. The participants were carrying placards with slogans.
- Poster making competition conducted in DPS Numaligarh.
- Poster & slogan competition conducted in Rupram Hazarika High School.
- Awareness program for tanker, dumper drivers was carried out on 23rd January 2023.
- Eye check up camp was done on 28th January 2023 for drivers in coordination with Lion's Club.
- Training program was organised on 30th January 2023 for all the drivers who are driving the vehicle inside the Refinery.
- Emergency handling and Road Safety Awareness program was carried out on 7th February 2023 at Township for Security Personnels.
- Awareness program at Project sites was carried out.
- Awareness program at VKNRL Hospital was carried out.

Activities carried out during Safety Week

- Display of PPE at Refinery Second gate & on the spot quiz was conducted on 6th March 2023.
- Demonstration of work at height safety at project site conducted by Karam on 6th March 2023.
- Training on use of BA Set was carried out at Field cabins on 6th March 2023.
- Safety Awareness program conducted at NRL Police outpost on 7th March 2023.
- Awareness program on clean agent and use of BA Set at CCR carried out on 7th March 2023.
- Awareness program at NRL Guest House conducted on 9th March 2023.
- Awareness program on clean agent and use of BA Set at Wax CR carried out on 9th March 2023.

Fire & Safety Snippets

- Awareness program conducted at project site during the week.
 - POL Driver training conducted on 10th March 2023 in NRMT.
 - Crossword competition conducted for Employees on 7th March 2023.
 - Online Safety Quiz conducted on 9th March 2023.
5. PSM Familiarization training to NRL Non- management employees from 9th to 10th February 2023. In that ERDMP awareness session was also carried out.
6. One major cum onsite disaster mock drill was conducted at DCU on 14th February 2023.

Photo Gallery

Photo 1	Glimpses of Walkathon inside NRL Township
Photo 2	Awareness program for Drivers
Photo 3	Eye check-up camp at OHC
Photo 4	Awareness program at VKNRL Hospital
Photo 5	Awareness program for Township security
Photo 6	Awareness program at Project Site
Photo 7	ERDMP awareness session
Photo 8	Safety Awareness program at NRL Police Outpost
Photo 9	Awareness program on clean agent and use of BA Set
Photo 10	Safety Awareness program at Project Site
Photo 11	POL Driver training at NRMT
Photo 12	Closing of National Safety Week 2023



Road safety week was celebrated from 11th to 17th January, 2023 at **Siliguri Marketing Terminal**. Various awareness session for POL drivers, Project Vehicle crews and contracts workers were organized. Shri Abhishek Gupta (IPS), DCP traffic, Siliguri also visited SMT during the week and shared a few words with NRL Officers on Road Safety. Eye checkup camp was organized for Employees, POL drivers, workers, and Security with the help of ASG eye hospital, Siliguri

Mr. Sanjay Choudhuri takes charge as new Director (Finance) NRL

Mr. Sanjay Choudhuri has joined Numaligarh Refinery Limited (NRL) as Director (Finance) on March 1, 2023.

Prior to joining the NRL Board, he was working with Oil India Limited (OIL) as Executive Director (Finance & Accounts) and holding additional charge of Executive Director (Corporate Affairs). Shri Choudhuri is a finance professional with wide-ranging domain experience of over 30 years in the Oil and Gas Industry having headed the finance function in upstream operations, pipeline business, and green field exploration projects in India and overseas. He also has experience of heading corporate finance, budgeting, taxation, management accounts, and financial reporting.

He participated in the consultative process for preparing the guidance note for the industry on accounting for Oil and Gas producing activities. He spearheaded the implementation of Ind AS in OIL and initiated an online Internal Financial Control (IFC) system in the company, which was one of the first in the industry. He was also involved in the consultative process

during the implementation of GST in the E&P sector.

He was Chairman and Director HPOIL Gas Private Limited, a joint venture between OIL and HPCL for CNG and city gas distribution business. He also held strategic leadership roles in OIL's overseas subsidiaries as a Director in Oil India International Pte Ltd, Singapore, Oil India International B.V., Netherland and Oil India (USA) Inc.

Shri Sanjay Choudhuri, is a fellow member of the Institute of Cost Accountants of India and the Founder Chairman of its Duliajan Chapter.



Director (Finance), Mr. Indranil Mitra Superannuates

Mr. Indranil Mitra, Director (Finance) superannuated from the services of the Company on 28th February, 2023 after an illustrious and distinguished career in NRL and BPCL, where he traversed most of his professional journey.

Mr. Mitra and his better half Ms. Jayanti Mitra were

inundated with love and affection from all quarters; with warm send offs organized Departmentally and in all locations of the Company.

The Corporate Office Farewell was held on 28th February participated by employees in Guwahati location.

We wish him the very best in his post-retirement life.

Farewell at Guwahati





Farewell at New Delhi

Farewell at Numaligarh



Hon'ble Governor of Assam visits Numaligarh

Hon'ble Governor of Assam Shri Gulab Chand Kataria was accorded a warm welcomed at Numaligarh for his 2 day visit to the Refinery. Along with other officials of NRL he took a recce of the Township and the Control room on 26th and 27th March, 2023.



Delegation from BPC visits NRL

A higher level delegation comprising of Chairman, Bangladesh Petroleum Corporation (BPC) Mr. A B M Azad; Additional Secretary, Energy and Mineral Resources Division, Md. Humayun



Kabir; Director, BPC, Mr. Khalid Ahmed; Deputy Secretary, Energy and Mineral Resources Division, Mst. Lailatun Ferdous and Managing Director, Padma Oil Company Limited, Md. Masudur Rahman visited Numaligarh and NRL Corporate

Atithi Devo Bhava

Office, Guwahati on 28th February and 1st March, 2023. They were extended a hearty welcome. At Guwahati, a presentation on NRL and areas of collaboration with BPC in the future was made before the visiting delegation in the presence MD NRL, Mr. B J Phukan and senior officials, followed by fruitful interactions.



At Guwahati

Greetings & Felicitations



Newly appointed Director (Finance), NRL
Mr. Sanjay Choudhuri greeted at NRL Delhi
Office on 14th March, 2023

Accomplishments

NRL Lady Engineers win Young Engineers' Award

Ms. Mansi Motwani, Officer (F&S) and **Ms. Brishti Sikha Batsya, Officer (ETP)** have bagged the 1st and 2nd prizes respectively at The Young Engineers' Award 2023 competition instituted by Senior Engineers Forum – NE Region, Guwahati.

The winners were presented with the awards at a ceremony organized on the occasion of the 19th Foundation Day of Senior Engineers Forum –NE region Guwahati on 20th

February, 2023 at The Institution of Engineers (India), Assam State Centre, Guwahati.

The function was graced by Mr. Anshul Gupta, GM, NF Railway as the Chief Guest in the presence of Dr. Bhupati Kumar Das, former MD NRL as the keynote speaker on the theme 'Role and Impact of Artificial Intelligence Engineering in Future'.



Mansi Motwani



Brishti Sikha Batsya

Mr. Arup Kumar Sarma, Quality Control analyst, QC Lab has qualified GATE 2023 in Chemistry conducted by IIT Kanpur

Hearty congratulations to the achievers !

Superannuations

Mr. Samir Kundu, CGM (Elect. Maintenance) was given a warm send-off upon his superannuation from service of NRL in the closing hours of 31st March, 2023.

Mr. Prabhat Chandra Saikia, Manager (NRMT) superannuated from the services of NRL on 28th February, 2023 rendering his immense contribution to the Company spanning around 25 years.

Mr. Girin Bailung, Engineer Assistant superannuated from the service of NRL in the closing hours of 31st March, 2023.

New recruits

Sl. No.	Name	Designation	Joined
1	Shri Bikash Jyoti Borah	Technical Assistant (Electrical)	January 2023
2	Ms. Chimpi Khanikar	Office Assistant Trainee	January 2023
3	Shri Dipankar Dutta	Asst. Company Secretary	February 2023
4	Shri Aniket Das	GET (Chemical)	March 2023
5	Shri Siddharth Barooah	GET (Chemical)	March 2023
6	Ms. Nishita Buragohain	GET (Chemical)	March 2023

Welcome to NRL family !

From the Archives



কাঁচঘৰ

গদা ডেকা

অৱসৰ প্ৰাপ্ত বিষয়া

শো শোনাগাৰৰ চাকৰিকালৰ অন্তিম দুবছৰ মানৱ সম্পদ বিভাগত কাম কৰাৰ সৌভাগ্য হৈছিল। চাকৰিকালৰ সৰ্বমুঠ সাতত্ৰিশটা বছৰৰ পয়ত্ৰিশ বছৰেই অভিযান্ত্ৰিক বিভাগবোৰত অভিযন্তা হিচাবে কাম কৰিলোঁ। শিল বালি চিমেণ্ট লোহা লঙ্কৰ মেচিন আদিৰ লগত সুমধুৰ সম্পৰ্কৰে। যদিও একেঘোমীৰ অতিচাৰত মাজে মাজে বিৰক্ত হৈ উঠিছিলো ঠিক যেনেকৈ ভাল ঘৈণীয়েক এজনীৰ লগত বহুদিন থকাৰ পিছত উচ্ছাসবোৰ কমি যোৱাৰ ধৰন এটাৰ দৰে। তথাপিও বিৰক্তি লাগিলেও সংসাৰখনৰ দৰেই চাকৰিটোওয়ে বচাই ৰাখিবই লাগিব! এই দুয়োটাই মনপচন্দৰ পোৱাজন পৃথিৱীৰ আটাইতকৈ সৌভাগ্যশালী ব্যক্তি বুলিয়েই ক'ব লাগিব।

সেয়েহে শেষৰ দুবছৰ একাকীত্বৰ পৰিৱৰ্তন ঘটাই নতুন পৰিৱেশ এটাত কাম কৰিব পাই নতুনত্বৰ সোৱাদ লভিলোঁ। মানৱ সম্পদ বিভাগৰ কাম মানে চৰকাৰ এখনৰ মন্ত্ৰীসকলৰ বিভাগবোৰৰ ভাগ বটৰা কৰাৰ পিছত বাকী থকা বিভাগবোৰ মুখ্যমন্ত্ৰীৰ লগত থকাৰদৰে যান্ত্ৰিক সমস্যাৰ বাহিৰে যিমানবোৰ শোনাগাৰৰ সমস্যা থাকে সিমানবোৰ। অনুমান কৰাতকৈ অনুমান নকৰা কামৰ সংখ্যা সৰহ। কৰিম বুলি ভাবি থকা কামবোৰ নকৰিবলগীয়া কামবোৰে পুতি পেলাই। শিল বালি চিমেণ্টৰ কামবোৰ আছিল নিৰ্বাক নিঃশব্দ; নিজ পচন্দ অনুসৰি কৰিব পাৰি। মানৱ সম্পদ বিভাগৰ কামবোৰ আকৌ সম্পূৰ্ণ বিপৰীত। মানুহৰ লগত। বিভিন্ন শ্ৰেণীৰ মানুহ; শোনাগাৰৰ চাকৰিয়াল, তেওঁলোকৰ পৰিয়াল, ঠিকাদাৰী কৰ্মচাৰী, বিভিন্ন ইউনিয়ন, স্থানীয় বাসিন্দা সকলৰ উপৰিও স্থানীয় প্ৰশাসনৰ বিভিন্ন ব্যক্তি। মুঠতে এনেকুৱা কোনো মানুহ নাই যাৰ লগত মানৱ সম্পদ বিভাগৰ সম্পৰ্ক নাই। মানুহ যেতিয়া সকলোৱে সবাৰ আৰু তাৎক্ষণিক প্ৰতিক্ৰিয়া দেখুৱাত সিদ্ধহস্ত। এটা শব্দ বা বাক্যই সাংঘাতিক সমস্যা আনিব পাৰে। অতি সংযমী আৰু মিতভাষী গুণৰ অধিকাৰী হোৱাটো এই বিভাগত মৌলিক অৰ্থত।

শোনাগাৰৰ সমীপতে কৰ্মচাৰীসকলৰ আবাসিক এলেকা। বিদ্যালয়, চিকিৎসালয়, ক্লাৱ, খেলপথাৰ আদিৰে স্বয়ংসম্পূৰ্ণ এখন নগৰাঞ্চল। গছগছনি, ফুলনিৰে এক নিৰ্মল আৰু বিতোপন পৰিৱেশ। আবাসিক এলেকাৰ বাসিন্দাসকলৰ সুবিধা অসুবিধাবোৰ চোৱাৰ দায়িত্ব কায়েই আমাৰ ওপৰতে পৰে। কিছুমান আবাসীৰ নিজৰ পৰিবাৰ, ল'ৰাছোৱালীৰ লগতে মাক দেউতাকো লগত ৰাখিবলগীয়া হয় পৰিস্থিতিৰ তাগিদাত। কোনোবাজনৰ একমাত্ৰ পুত্ৰ, কোনোবাজনৰ একমাত্ৰ জীয়ৰী, পতিহাৰা, পত্নীহাৰা আদি ভিন ভিন সমস্যা। পুত্ৰ বোৱাৰী নাতি নাতিনী সকল দিনে ৰাতিয়েই ব্যস্ত। ডিউটি, স্কুল, কিটি পাৰ্টি, ক্লাৱ আদিত ব্যস্ত। কিন্তু সমস্যা হয় বৃদ্ধ মাক দেউতাকসকলৰ অব্যস্ততাৰ সমস্যা। সময় পাৰকৰাৰ যত্নগা। ইচ্ছাৰ বিৰুদ্ধে আপোন ঘৰখন এৰি আহি আনৰ বোজা হোৱাৰ যত্নগা মুঠতে একাকীত্বৰ যাতনা। সাক্ষ্যভ্ৰমণৰ সময়ত প্ৰায়ে তেখেতসকলক লগ পাব। মূৰ দুপিয়াই হাঁহিমাৰি কুশল বাৰ্তা লও। দুগুণ প্ৰত্যুত্তৰ পাও সাদৰেৰে। জুম বান্ধি ঘূৰি ফুৰে নগৰাঞ্চলৰ ইমূৰে সিমূৰে। খৰধৰ নাই, নাই কোনো চঞ্চলতা। মোহনাৰ মুখৰ নৈ। ধীৰস্থিৰ শান্ত সমাহিত। নিৰুদ্ভিগ্ন। অফুৰন্ত সময়। তেওঁলোকৰ বাবে ঘড়ীৰ কাটাৰ গতি মঠৰ। পথৰ কাষত নিৰ্দিষ্ট বেগত বহে। আড্ডা মাৰে। হাঁহি হাঁহি ধেমালি কৰে। কিছুসময় বাস্তৱক পাহৰি থকাৰ চেষ্টা। আটাইতকৈ বেয়া পায় বৰষুণৰ দিনবোৰক। না সাক্ষ্যভ্ৰমণ না আড্ডা। আকাশলৈ চাই থাকে বৰষুণ কমিলেই কিজানি!

মনত ভাৱ হ'ল সেই জ্যেষ্ঠ নাগৰিক সকলৰ বাবে কিবা এটা কৰিব পৰা হ'লে। ৰ'দ বৰষুণ নেওচি য'ত তেওঁলোকে সদায় লগ হ'ব পাৰে। মনৰ দুৰাৰবোৰ খুলি দিব

পাৰে। শীল অশীল দুই এটা কৌতুক ক'ব পাৰে। লুকাই চুবকৈ চেলুৰে খপিব পাৰে। কৰ্ত্তিপক্ষৰ লগত আলোচনা কৰি সিদ্ধান্ত লোৱা হ'ল নগৰাঞ্চলৰ সমবায় ভাণ্ডাৰৰ কাষতে মজলীয়া ধৰনৰ কোঠা এটা বনাই দিয়া যাওক জ্যেষ্ঠনাগৰিক সকলৰ আড্ডাগৃহ হিচাপে। কথা মতেই কাম। কোঠাটো নিৰ্মাণ হৈ গ'ল। চাৰিওফালে কাঁচৰ বেৰ আৰু খিৰিকী। একপক্ষীয় দৃশ্যমান ৰঙীন আইনাৰ কাঁচঘৰ। ভিতৰৰ পৰা বহিৰ্জগত দৃশ্যমান; অথচ বাহিৰৰ পৰা ভিতৰলৈ একো নেদেখি। বাহিৰৰ গতিশীলতা চঞ্চলতা সেই কাঁচঘৰৰ ভিতৰৰ পৰা উপভোগ কৰে সেই শ্ৰৌট-শ্ৰৌটাবোৰে, অথচ বাহিৰৰপৰা কোনেও দেখা নাপায় তেওলোকক, বুজি নেপায় তেওঁলোকৰ হৃদয়ৰ বতৰা।

কাঁচঘৰটোত আৱশ্যকীয় সামগ্ৰী এচি, টিভি, বিভিন্ন ভাষাৰ বাতৰি কাকত, আলোচনীকে আদি কৰি কেৰমবোৰ্ড, লুডু, দবা, তাচপাত আদিৰ যোগান ধৰা হ'ল। সৰুকৈ বুকুচক্ষু এটিৰে কিছুমান কিতাপ ৰখাৰো ব্যৱস্থা কৰা হ'ল। চাহৰ বাবে বৈদ্যুতিক কেটলিৰো যোগানধৰা হ'ল লগতে দিহা কৰা হ'ল প্ৰয়োজন অনুসৰি কাষৰ সমবায় ভাণ্ডাৰৰপৰা দৰকাৰী সামগ্ৰী কোম্পানীৰ খৰচত। এই গোটেই কামটোত মই ইমান আত্মিক হৈ পৰিছিলো যে অতি কমদিনৰ ভিতৰতেই কাঁচঘৰটো সম্পূৰ্ণ কৰি অগ্ৰজ সকলক উৎসৰ্গা কৰিছিলোঁ উন্মোচন কৰাৰ দিনাখন তেওঁলোকৰ কিয়ে অপাৰ ফুৰ্তি। ঘৰতে বনায় অনা পিঠা লাডুৰে সকলোকে আপ্যায়িত কৰিলে। ব্যক্তিগত ভাবে আমাক কৃতজ্ঞতাজনাই আশীৰ্বাদ দিলে। হাতযোঁৰ কৰি আশীৰ্বাদ গ্ৰহন কৰিলোঁ। মাজে মাজে কাঁচঘৰলৈ গৈ তেওঁলোকৰ সাসুবিধা আদিবোৰৰ খবৰ লওঁ। অলপ আড্ডা মাৰোঁ। চিগাৰেট বেছি খাবলৈ মানা কৰোঁ।

এদিনৰ কথা। কাঁচঘৰত গৈ দেখিলো সকলোৱে টিভিৰ আগত বহি সাৰসুৰ নোহোৱাকৈ কিবা এটা অনুস্থান চাই আছে। মই গৈ বহিলো যদিও কথা পতাতকৈ যেন তেওঁলোকৰ টিভিটোৰ প্ৰতিহে আকৰ্ষণ বেছি। কথাটো মই ভাল নাপালোঁ। অলপ টানকৈয়ে ক'লো যে কথাবতৰা বা আনকোনো খেলাধুলা নকৰি কেৱল সৰু ল'ৰাছোৱালীৰদৰে টিভিটো চাই থকা কাৰ্যটো সমূলি ভাল হোৱা নাই আৰু পিচদিনাখনৰপৰা টিভিৰ সংযোগ বিচ্ছিন্নকৰা হ'ব বুলি সামান্য হুংকাৰ এটা দিলোঁ। মানুহখিনিয়ে থতমত খাই লগেলগেই টিভিটো অফ কৰি দিলে। মই অনবৰতে টিভি চাই থকাৰ অপকাৰীতাৰ ওপৰত সৰুসুৰা বক্তৃতা এটাই দিলোঁ।

কিচুসময় নিস্তব্ধ। নিৰৱতা ভংগ কৰি এজনে লাহে লাহে ক'লে ঘৰত তেওঁলোকে নিজৰ পচন্দৰ টিভি অনুস্থাবোৰ চাব নোৱাৰে। ল'ৰা বোৱাৰী নাতি নাতিনীৰ মতেহে টিভি চলি থাকে। সেয়েহে কাঁচঘৰতেই তেওঁলোকৰ মনপচন্দৰ অনুস্থাবোৰ চায়। সেই সময়ত মহাভাৰতৰ কিবা এটা এপিচোড চলি আছিল। এতিয়া সেই সুবিধাকনো যদি নোহোৱা হয় ----।

মই আৰু ৰৈ থাকিব লোৱাৰিলোঁ। বাহিৰলৈ ওলাই আহি কোনোৱে নেদেখাকৈয়ে সেমেকা চকুহাল ৰুমালৰে মোহাৰি ল'লোঁ।

মইও চিৰন্তন নহয়। চাকৰিৰ পৰা অৱসৰ ল'লোঁ। জ্যেষ্ঠ নাগৰিকৰ শ্ৰেণীত পৰিলোঁ। এতিয়া কাঁচঘৰটো দেখিলেই মোৰ বুকুখনত কিবা এটা শোকে খুন্দা মাৰি ধৰে। অৱসৰৰ পাচত মই কাঁচঘৰটোলৈ যোৱা নাই। যাব বিচৰাও নাই। কাঁচঘৰৰ ভিতৰৰপৰা বাহিৰৰ সুন্দৰ আৰু সপ্ৰতিভ জগতখন চাব নিবিচাৰোঁ।

কাঁচঘৰৰ বাহিৰতেই চিৰদিন হওক মোৰ স্থায়ী ঠিকনা।

DNest Annual Picnic

On the 7th of January 2023, DNest members took time off from their regular schedule to enjoy the day at one of the most picturesque and pristine locations at Ranikhamar near the Assam-Meghalaya border.



Felicitation of Naitik Suman Kalita

Naitik Suman Kalita son of Sri Suman Kalita of Finance Department, Guwahati has brought laurels to his school Gurukul Grammar as well as the State by bagging Gold in the All India CBSE Taekwondo Championship in the under 14 years (33 kg category) held at Ghaziabad during Jan'23. To encourage and motivate Naitik, DNest club presented him with a gift cheque of Rs 10,000/-. The cheque was presented by Club President and Secretary on 26th January, 2023.



Holi Celebrations

After a long gap, DNest members celebrated the festival of colours Holi this year. Members gathered at DNest Club premises for a day filled with colours, music and masti.



Rangchali Club Welcomes Bhogali Bihu with Fervour

Bhogali Bihu, the joyous harvest festival of Assam was celebrated on 15th January, 2023 at the Club premises, with traditional *meji prajwalan* followed by serving of *Bihu* delicacies.



Celebration of Silpi Divas

Rangchali club celebrated *Silpi Divas*, commemorating the death anniversary of Rupkonwar Jyoti Prasad Agarwala on 17th January 2023 at the Club premises.



Children Theatre Workshop

National School of Drama, New Delhi organised a 30 day production-oriented children theatre workshop from 18th December 2022 to 17th January 2023 in collaboration with Rangchali Club and play (KONTILO vs ALEXA) presented by 30 day children theatre workshop at the Community Centre.



Saraswati Puja Celebration

Rangchali Club members paid obeisance to the Goddess of learning on the occasion of *Saraswati Puja* on 26th January 2023. Members offered *puja* to the goddess and sought her blessings. Members and family took part in this program which included *puspanjali*, *prasad vitaran* and *bhog vitaran*.



Seven a Side Day Night Tennis Ball Cricket Tournament

Rangchali Club organised seven a side tennis ball cricket tournament among the members from 29th February to

5th March 2023 at the NRL main playground. Many teams joined in this tournament to make it a grand success.



Ladies' Tennis Ball Cricket Tournament

For the second time Rangchali Club organized Ladies' Tennis Ball Cricket Tournament during March 2023 at NRL main playground. Four teams participated in the tournament that received overwhelming support from the audience.



VK NRL Hospital Section

PREVENTION OF DIABETES MELLITUS

Dr. Darpan Rajkhowa
MBBS, MD (Medicine)

INTRODUCTION

We have heard the notion since our childhood that “prevention is better than cure”. But is it applicable to Diabetes also? Well, let's find out.

WHAT IS DIABETES?

Diabetes mellitus (DM) is a chronic metabolic disorder characterized by high blood glucose level because of either lack of insulin synthesis or insulin resistance. Insulin is the key player to open the body cells for glucose to enter so that it can be used for energy production. When the cells are not able to take up glucose properly, blood glucose level remains

high which is known as hyperglycemia.

WHAT CAUSES DIABETES?

Several distinct types of DM are caused by a complex of genetic and environmental factors. Long term metabolic dysregulation seen in DM is one of the primary causes of multiple organ involvement seen in DM.

Type 1 DM resulted from the lack of insulin production. It is usually seen in young population, sometimes even from childhood as well. They are treated with insulin injections once detected.

Type 2 DM develops when the body cannot make insulin

properly or insulin is produced but it does not work properly i.e, insulin resistance. It is seen in people over 40 years of age, but now-a-days it is becoming more common in young population most likely due to increased obesity, sedentary lifestyle, increased consumption of junk foods. Initially depending upon the clinical scenario, hyperglycemia in patients with type 2 DM can be controlled with lifestyle modifications, oral medications and later may require insulin.

Diabetes detected for the first time during pregnancy is gestational DM (GDM). It occurs because the body is not able to produce enough insulin to meet the extra needs of pregnancy. It usually disappears after giving birth but have an increased risk for developing type 2 DM later in life.

CURRENT SCENARIO

Diabetes is the 21st century epidemic with millions of people living with diabetes around the globe. Diabetes not only lowers the quality of life and greatly increases medical expenses, but also significantly increases disease related deaths. DM is the fourth main cause of death and disability in the world. It is one of the leading causes of end stage renal disease, non-traumatic lower limb amputation and adult blindness.

India is rightly said the “diabetic capital” of the world. India alone accounts for 17% of total world diabetic population. Percentage wise it seems to be a small number, but when total number of patients was accounted for it came out to be around 80 million.

DM is associated with excess mortality mainly due to vascular complications like myocardial infarction, stroke and peripheral artery disease. Mortality rate also increases with duration of the illness.

RISK FACTORS

Risk factors can be non-modifiable or modifiable.

Non modifiable:

- Advancing age
- Family history of diabetes

Modifiable:

- Obesity
- Alcohol
- Tobacco use
- Sedentary life style
- Junk foods
- Irregular diet pattern
- Stressful life

SIGN AND SYMPTOMS

Classical triad of polyuria (frequent urination), polydipsia (excessive thirst) and polyphagia (extreme hunger) is seen

in a fraction of patients only. Most of the cases are usually diagnosed incidentally where a state of asymptomatic hyperglycemia persists for a long duration. Other symptoms include weight loss, fatigue, blurring of vision.

DIAGNOSTIC CRITERIA

- Fasting plasma glucose ≥ 126 mg/dl
- 2 hour plasma glucose after a glucose challenge ≥ 200 mg/dl
- HbA1C ≥ 6.5
- Symptoms of diabetes with random blood glucose ≥ 200 mg/dl

PREVENTION OF DIABETES

Prevention of type 2 DM is a great challenge worldwide. As diabetes is a chronic disease, proper preventive measures can not only delay its onset but also its complications which in turn will help in improving the quality of life and productivity of patients who are at high risk of developing it. We can at least try from our side to curtail the modifiable risk factors to prevent the development of diabetes.

Proper education and counselling from an early age is the need of the hour. People in the society should be made aware about the advantage of physical activities, diet control and a healthy lifestyle.

Regular physical activity like walking, jogging, cycling etc. have shown to control insulin resistance and high blood sugar. The Diabetic Prevention Program (DPP) demonstrated that intensive changes in lifestyle (diet and exercise for 30 min/day) prevented or delayed the onset of type 2 DM by 58%. Yoga and meditation have shown to reduce stress and high blood pressure which may aggravate diabetic vascular complications.

Diabetic patients should be educated to eat smaller portions and divide their meals in 3-4 times per day. Patients should avoid high calorie intake and junk food strictly. The meal should include foods with more fibers, vegetables, fruits and with low glycemic index. Alcohol and tobacco product should be avoided. Adequate water intake of around 2litres/day should be there.

Taking small steps like controlling the body weight to suit the BMI can be one of the many factors to prevent or delay the onset of T2DM and related complications.

The usual diet distribution should be as below:

- Carbohydrate – 55-60%
- Proteins – 20% or 1gm/kg body weight
- Fats – 20-25%

Our meal should include dietary fibers and complex carbohydrate which is beneficial in diabetes by

- Lowering insulin requirement
- Decrease serum cholesterol and triglyceride
- Increase peripheral tissue insulin sensitivity
- Aid in weight control/loss
- Lowers blood pressure

Vitamin supplementation may be helpful to overcome oxidative stress and deficiency. Diet rich in vitamins and antioxidants like fruits and vegetables should be encouraged. Moderate dietary salt restriction is beneficial.

CONCLUSION

In India, diabetes in young adults is more commonly seen as compared to western population mainly due to unhealthy lifestyle which is a cause of concern. Based on the present trend, by 2045, the number of people with diabetes worldwide is expected to increase upto 629 million and in India upto 135 million. As of now, there is no known way to prevent type 1 DM but we can at least put some effort from our side to prevent or delay the onset of type 2 DM.

News in Pictures



Awareness Camp organised on 8th March 2023 on the occasion of International Women's Day at Rong Bong-I



Special Mega Health Camp organised on 15th February 2023 in association with National Medicos Organization at Ponka Sapta Swahid OPD



Celebration of National Youth Day on 12th January 2023



Special Eye check-up camp organised on 19th February 2023 in association with Sri Sankaradeva Nethralaya



Celebration of Republic Day



Unveiling of Swamiji Vivekananda's statue on 21st February 2023 in fond memory Late Debashish Choudhury donated by his family



Oil India Limited celebrates its 64th Foundation Day

The 64th OIL Foundation Day (18th February, 2023) was celebrated at Duliajan Club. The event was graced by Dr Ranjit Rath, CMD, Shri Pankaj Kumar Goswami, Director (Operations), Shri Prasanta Borkakoty, RCE. The event started with ceremonial lighting of lamp followed by cake cutting & cultural programme. While remembering the predecessors who laid the foundation of the company, Dr Rath reiterated that we must continue our hard work, toil and commitment to live up to the expectations.



3x10 MW Gas Engine Generator Power Plant inaugurated at FHQ

OIL proudly dedicated to the Nation the 3x10 MW Gas Engine Generator based Power Plant on the occasion of 64th Foundation Day of OIL (18th February, 2023). Equipped with Continuous Emission Monitoring System, Real time gas analysing & auto tuning, State of the art Automation System and Advanced plant protection, this power plant with engines of lean burn technology has higher open cycle efficiency leading to reduction in gas consumption by 28.07%. This 3x10 MW GEG Power plant is ready to take up the legacy of dedicated service in generation of Quality power for OIL's E&P business and establishments is aptly aligned to GOI's Net Zero goals with its lower carbon footprints.



Oil India Limited exhibits its strength during the India Energy Week 2023

Hon'ble PM Shri Narendra Modi inaugurated India Energy Week 2023 in Bengaluru on 6th February 2023 in the presence of Shri Hardeep Singh Puri, Hon'ble Minister, MoPNG. The India Energy Week event drew around 650 exhibiting companies at the Bangalore International Exhibition Centre (BIEC). An unmatched opportunity for buyers and sellers to meet, network, and engage with the entire energy value chain, including leading NOCs, IOCs, NECs, and IECs and companies operating within alternative & renewables, utilities & power generation, construction & industrialization, technology & services, was provided by the exhibition, which was held under the patronage of the Ministry of Petroleum & Natural Gas of the Government of India and supported by the Federation of Indian Petroleum Industry (FIPI).

Hon'ble Minister, Ministry of Petroleum and Natural Gas, Government of India, Shri Hardeep Singh Puri, graced the OIL Pavilion at India Energy Week. CMD OIL, Dr Ranjit Rath, briefed Hon'ble Minister on OIL's preparedness in the age of evolving technologies & ensuring energy security for India.



Prime Minister Shri Narendra Modi flagged off OIL's indigenously developed hydrogen fuel cell-based e-bus at the India Energy Week (IEW) in Bengaluru on 6th February 2023. Through its Startup programme (SNEH),



OIL developed this hydrogen fuel cell-powered bus domestically under the National Hydrogen Mission and Atmanirbhar Bharat vision of the Indian government.

Dr Ranjit Rath, CMD, addressed the delegates from the Strategic Conference Leadership Panel and, along with the other esteemed speakers, shared essential perspectives on the theme 'Outlook: The Energy System of the Future'.

Two startups, Caliche Pvt Ltd & Beta Tank Robotics Pvt Ltd, supported by the OIL startup program, were awarded as best startups on the closing day of India Energy Week by Hon'ble Minister Shri Hardeep Singh Puri, in the presence of Shri Pankaj Jain, Secretary, Ministry of Petroleum and Natural Gas.



OIL holds 'Udyam 2023'

OIL's pavilion at Udyam 2023, a 5-day exhibition (25 Feb to 1 March 2023) organized at Duliajan by the Department of Industries, Commerce & Public Enterprises, Govt of Assam, was ceremoniously inaugurated by Shri Rameswar Teli, Union Minister of State for Ministry of Petroleum and Natural Gas, Government of India and Ministry of Labour and Employment, Government of India. Shri Sarbananda Sonowal, Hon'ble GoI Minister of Ports, Shipping & Waterways, and AYUSH visited the OIL pavilion. At the 'Udyam 2023', Shri Sonowal had a fruitful interaction with Shri Prasanta Borkakoty, RCE, OIL and also applauded the efforts of exhibiting the OIL's heritage

and legacy for the general public. He appreciated the OIL's CSR initiative to create livelihood opportunities for the local weavers. Also present were Hon'ble Ministers of Assam, Shri Bimal Borah, Industries & Commerce & Public Enterprises, & Cultural Affairs; Shri Ranjeet Kumar Dass, Panchayat & Rural Dev, Food, Civil Supplies & Consumer Affairs, Gen Adm, Law & Justice; & Shri Terosh Gowalla, MLA, Duliajan. OIL pavilion showcased core OIL business, OIL CSR, & other activities to help external stakeholders especially students & scholars, learn & understand the oil & gas industry. Many inquisitive visitors to the OIL pavilion showed keen interest in learning about OIL.



BCPL celebrates 16th Foundation Day

BCPL celebrated the 16th Foundation Day on 08th January 2023 at BCPL Petrochemical Complex, Dibrugarh. Shri Reep Hazarika, Managing Director BCPL, Shri Pruthiviraj Dash, Director(Finance), Shri Vijay Kumar Pal, Chief Operating Officer, invited guests, senior officials graced the occasion. On the event Shri S.M. Vaidya, Chairman IOCL extended his greetings to team BCPL. Shri K.K.Sharma, CGM & RH, Digboi Refinery attended the event and handed over the Chairman's congratulatory letter to MD, BCPL and also presented a bouquet of flowers and a cake to him on behalf of Chairman, Indian Oil. During the event Shri Hazarika congratulated all the employees for their dedication and hard work and thanked the stakeholders for the support towards the growth of the company. Employees were also felicitated for their long service and the in-house journal was inaugurated to mark the day.



BCPL Participates in India Energy Week

Brahmaputra Cracker and Polymer Limited (BCPL) participated in the India Energy Week which was held under the patronage of Ministry of Petroleum & Natural Gas, supported by the Federation of Indian Petroleum Industry (FIPI). India Energy Week was the first major event held under India's G20 Presidency.

BCPL put up a stall in association with the Department of Industries and Commerce, Government of Assam. The stall named as Assam Pavilion consisted of stalls of state PSUs and Central PSUs. Shri Rameswar Teli, Hon'ble Union Minister of State Petroleum & Natural Gas and Labour & Employment, inaugurated the stall on 06th February.

Shri Reep Hazarika Managing Director BCPL greeted the Hon'ble minister in the stall of BCPL.

Senior Officials of Government of Assam, APL, BCPL,



AGCL, BVFCL, AGCL, NRL etc were also present during the inauguration of the stall. The event was held at the Bangalore International Exhibition Centre (BIEC).

BCPL Observes International Women's Day 2023.

Brahmaputra Cracker and Polymer Limited (BCPL) observed International Women's Day on 7th March, 2023 on the theme "Digit ALL: Innovation and technology for gender equality". BCPL organised few sessions as part of the women's day celebration. To mark the occasion Dr. Chandana Goswami, Life Coach and Director, Lifeline Technology Pvt. Ltd., Guwahati addressed the spouses of BCPL employees at BCPL Township Barbaruah and stressed on various issues of life style. A session was also given to the peripheral and support female staff and other

contract workers by Mr. Jayanta Kumar Baruah, Chief Manager (HR) BCPL. He spoke on how women and girls have just as much right to access to the digital world and prosper in it as others.

Professor Ajanta Rajkonwar Borgohain, Hon'ble Vice Chancellor of Assam Women's University, Jorhat was the invited speaker for the women employees of BCPL. She addressed and shared her valuable experience on woman empowerment and inspired and encouraged everyone to lead a self-independent life.

Shri Reep Hazarika, Managing Director BCPL was the Chief Guest on the occasion. Shri Vijay Kumar Pal, Chief Operating Officer BCPL, Dr. Subrata Borgohain Gogoi, Professor and Head of the Department of Petroleum Technology, Dibrugarh University and senior officials of BCPL were also present on the occasion. Shri Hazarika, Managing Director (BCPL) while addressing the gathering spoke on the enormous contributions of women in various fields.



ब्रह्मपुल क्रैकर एंड पॉलिमर लिमिटेड में हिंदी ई-टूल्स पर तकनीकी संगोष्ठी

माननीया सचिव, राजभाषा विभाग सुश्री अंशुली आर्या, आई.ए.एस. के मार्गदर्शन में बने हिंदी ई-टूल्स के तकनीकी प्रयोग को बढ़ावा देने के उद्देश्य से नगर राजभाषा कार्यान्वयन समिति (कार्यालय), डिब्रूगढ़ के तत्वावधान तथा क्षेत्रीय कार्यान्वयन कार्यालय (पूर्वोत्तर क्षेत्र), गुवाहाटी के समन्वय से पूर्वोत्तर क्षेत्र के समस्त नराकास सदस्य सचिवों एवं हिंदी अधिकारियों के लिए 20 मार्च 2023 को प्रशासनिक भवन, बीसीपीएल, डिब्रूगढ़ में नराकास सम्मेलन एवं तकनीकी संगोष्ठी का आयोजन किया गया। संगोष्ठी में मुख्य अतिथि के रूप में राजभाषा विभाग, भारत सरकार, गृह मंत्रालय, नई दिल्ली के निदेशक (कार्यान्वयन) श्री बी.एल. मीना. ऑनलाइन माध्यम से उपस्थित थे। इसके साथ मंचासीन अतिथि के रूप में बीसीपीएल के निदेशक (वित्त) श्री पृथ्वीराज दाश, प्रभारी, क्षेत्रीय कार्यान्वयन कार्यालय श्री बदरी यादव तथा बीसीपीएल के मुख्य संचालन अधिकारी श्री विजय कुमार पाल उपस्थित थे।

निदेशक (कार्यान्वयन) श्री बी.एल.मीना ने अपने संबोधन में संविधान में राजभाषा प्रयोग संबंधी दिए गए विभिन्न नियम / अधिनियमों के बारे में चर्चा करते हुए कहा कि पूर्वोत्तर क्षेत्र में स्थित सभी नराकास समितियों को अपने स्तर पर देश के संविधान में उपलब्ध संवैधानिक व्यवस्थाओं के प्रति जानकारी रखनी चाहिए और इसे कार्यान्वित करने हेतु प्रयास करना चाहिए। उन्होंने यह भी बताया कि पूर्वोत्तर क्षेत्र में स्थित नराकास कई कार्यक्रमों का आयोजन कर रही है जो कि सराहनीय है। श्री मीना ने बीसीपीएल द्वारा पूर्वोत्तर क्षेत्र के साथ-साथ ऑनलाइन माध्यम द्वारा समस्त भारत के लिए आयोजित तकनीकी संगोष्ठी की सराहना करते हुए कहा कि ऐसे कार्यक्रमों से राजभाषा अधिकारी लाभान्वित होते हैं। श्री बदरी यादव ने संगोष्ठी में आमंत्रित विभिन्न नराकास सदस्य सचिवों एवं हिंदी अधिकारियों का स्वागत करते हुए संगोष्ठी के महत्व को दर्शाते हुए कहा कि विद्वतगण के चिंतन-मनन से जो निष्कर्ष निकलता है वही भविष्य निर्माण में सहायक होते हैं। इसी

उद्देश्य को ध्यान में रखते हुए पूर्वोत्तर क्षेत्र के हिंदी अधिकारियों के लिए संगोष्ठी का आयोजन किया गया है।

दो सत्रों में विभाजित इस सम्मेलन में कुल 7 विशेषज्ञों ने अनुवाद टूल 2.0, डिजिटाइजेशन के दौर में हिंदी के महत्वपूर्ण टूल्स, हिंदी भाषा, नियम एवं अधिनियम, विभिन्न नराकासों की गतिविधियां, तिमाही रिपोर्ट, बैंकों में राजभाषा हिंदी की भूमिका जैसे विषयों पर अपना-अपना सारगर्भित व्याख्यान रखा। सत्र की अध्यक्षता एवं सार-समीक्षक के रूप में क्षेत्रीय कार्यान्वयन कार्यालय (पूर्वोत्तर क्षेत्र), गुवाहाटी के अनुसंधान अधिकारी एवं कार्यालय प्रमुख श्री बदरी यादव आमंत्रित थे।

संगोष्ठी के दौरान केंद्रीय रेशम बोर्ड, गुवाहाटी द्वारा प्रकाशित वार्षिक हिंदी संवादपत्र तत्ता केंद्रीय जल आयोग, ऊपरी ब्रह्मपुल मंडल की पत्रिका जल तरंग का विमोचन भी किया गया। संगोष्ठी के समापन समारोह के दौरान श्री बदरी यादव, प्रभारी, क्षेत्रीय कार्यान्वयन कार्यालय (पूर्वोत्तर क्षेत्र), गुवाहाटी कर-कमलों से सभी प्रतिभागियों को प्रशस्ति पत्र एवं स्मृति चिह्न प्रदान किया गया। संगोष्ठी का संचालन बीसीपीएल के अधीक्षक (हिंदी) श्री रंजन कलिता एवं केंद्रीय विद्यालय डिब्रूगढ़ के सातकोत्तर शिक्षक (हिंदी) श्री ओंकार नाथ तिवारी ने किया। ब्रह्मपुल क्रैकर एंड पॉलिमर लिमिटेड द्वारा राजभाषा हिंदी की प्रगति एवं प्रचार-प्रसार को बढ़ाने एवं पूर्वोत्तर क्षेत्र में स्थित नराकास के अध्यक्ष कार्यालयों में हिंदी की गतिविधियां, भूमिका तथा विकास जैसे मुद्दों पर गहन विचार-विमर्श के उद्देश्य को ध्यान में रखते हुए “पूर्वोत्तर क्षेत्र का नराकास सम्मेलन एवं तकनीकी संगोष्ठी” का आयोजन किया गया। संगोष्ठी में प्रत्यक्ष एवं ऑनलाइन माध्यम से कुल 160 सदस्य सचिवों एवं हिंदी अधिकारियों ने भाग लिया।



नुमालीगढ़ रिफाइनरी में हिंदी कार्यशाला का आयोजन

दिनांक 17 मार्च, 2023 को नुमालीगढ़ रिफाइनरी के कर्मचारियों के लिए 'सरल हिंदी लेखन व पाठन' शीर्षक पर हिंदी कार्यशाला का आयोजन किया गया। कार्यशाला का उद्देश्य प्रतिभागियों को लिखते समय होने वाले सामान्य गलतियों की जानकारी देते हुए भाषा को सही व शुद्ध रूप से लिखने और पढ़ने के लिए प्रेरित करना था। प्रशासनिक भवन के सभाकक्ष के आयोजित इस कार्यशाला में गृह संकाय सदस्य के द्वारा भाषा की सामान्य परिभाषा व लिपि पर प्रकाश डाला। उन्होंने इस अवसर पर देवनागरी लिपि के मानकीकरण पर चर्चा करते हुए प्रतिभागियों को मानक देवनागरी लिपि की जानकारी दी। कार्यशाला के उद्घाटन सत्र में मुख्य



प्रतिभागियों का ग्रुप फोटो



उद्घाटन सत्र

महाप्रबंधक (मानव संसाधन व विधि) डॉ. काजल शर्मा जी और महाप्रबंधक (प्रशासन व सुरक्षा) श्री विद्युत विकास बुढ़ागोहाई जी ने उपस्थित रहकर प्रतिभागियों का हौसला बढ़ाया। अपने उद्बोधन में मुख्य महाप्रबंधक (मानव संसाधन व विधि) डॉ. काजल शर्मा जी ने कहा कि लगभग सभी कर्मचारी हिंदी भली भाँति पढ़ व लिख सकते हैं, परंतु शुद्धता का अपना महत्व होता है, इसीलिए राष्ट्र की भाषा और देश की राजभाषा हिंदी को सही रूप में लिखना और पढ़ना हमारा नैतिक दायित्व भी बनता है। उन्होंने आशा व्यक्त की कि सभी प्रतिभागी कार्यशाला से अवश्य लाभान्वित होंगे तथा भविष्य में भाषा लेखन में होनेवाली सामान्य त्रुटियाँ कम होंगी। कार्यशाला में कुल 42 प्रतिभागियों ने उत्साहपूर्वक भाग लिया।

नुमालीगढ़ रिफाइनरी में तिमाही ई-मेल प्रतियोगिता की विजेताओं को पुरस्कार प्रदान

कार्यालय में हिंदी पत्राचार को बढ़ावा देने और राजभाषा विभाग द्वारा जारी वार्षिक लक्ष्य को प्राप्त करने के उद्देश्य से नुमालीगढ़ रिफाइनरी के कर्मचारियों के लिए नियमित रूप से आयोजित की जा रही त्रैमासिक ई-मेल प्रतियोगिता की जनवरी-फरवरी, 2023 तिमाही की विजेता कर्मचारियों की सूची निम्नवत है –

क्रम सं.	पुरस्कार	विजेता प्रतिभागियों का नाम
1.	प्रथम	श्री अलीन्द्र बर्मन, सचिव-सीजीएम(मा.सं. व विधि)
2.	द्वितीय	श्रीमती रत्ना दास, कार्यालय सहायक (पीएण्डए)
3.	तृतीय	श्री सिराजुल मन्नान राजवी, अधिकारी(एनआरएमटी)
4.	प्रतिभागीता पुरस्कार	1. श्री रितु हाती बरुवा, अधिकारी(वाणिज्य)
		2. श्री पंकज छेली, कार्यालय सहायक,
		3. श्री स्वर्णोत्पल काश्यप, अधिकारी(ओपीएस-एसआरबी)
		4. श्री अजय पी सिंह, अधिकारी(ओपीएस-एसआरबी)
		5. श्री गौरव मिश्र, जीईटी

सुख और दुःख

अख्तर हुसैन
मानव संसाधन विभाग

जीवन का लक्ष्य है सुख प्राप्ति,
सुख की तलाश में हर व्यक्ति,
खपा देते हैं सारी जिंदगी,
पर मिलता कहाँ है ऐ दोस्त,
मुझे तो चाहिए दोनों सुख और दुःख ।

अचानक मेरी मुलाकात हुई दुःख से
मिले ऐसे जैसे कोई बिछड़े दोस्त मिले,
दो अजनबी मानो दोस्त बन गए
जिससे भागते थे वही मिल गए ।

फिर निकल पड़ा मैं सुख की खोज में
रास्ते में खड़ा मेरे दोस्त दुःख मिले
उसने हँसकर कहा, हमको साथ लिए बिना,
तुमको सुख मिलेगा कहाँ भला ?

दुःख पर यदि हम हमेशा ध्यान देंगे,
तो वो कभी हमारा पीछा नहीं छोड़ेंगे,
पर सुख पर यदि सदा ध्यान देंगे
सुख हमेशा हमारे साथ ही रहेंगे ।

दुःख हमारे जीवन में आना एक वजह है,
सुख के महत्व को वो समझाते हैं,
सामने आये चुनौतियों से लड़ने की ताकत देती है
विपरीत स्थितियों से लड़ने की राह दिखाती है ।

सुख और दुःख दोनों है क्षणिक
पर दोनों है एक दूसरे के परिपूरक
सुख और दुःख के मधुर मिलन से ही
खिलती हैं जीवन बगिया जन्नत जैसी ।



Assamese Section

অন্তৰংগ গধূলি



নুমলীগড় শোধানাগাৰ শাখা সাহিত্য সভাৰ নিয়মীয়া অনুষ্ঠান অন্তৰংগ গধূলিত সমল
ব্যক্তি, সাহিত্য অকাডেমি বঁটা বিজয়ী প্ৰখ্যাত সাহিত্যিক, সাংবাদিক শ্ৰীযুতা অনুৰাধা শৰ্মা
পূজাৰী আৰু শাখা সাহিত্য সভাৰ কৰ্মকৰ্তাসকল

বিশেষ সম্বৰ্ধনা



শ্ৰদ্ধাৰ শ্ৰীযুত সমীৰ কুণ্ডু মহোদয় আৰু তেখেতৰ সহধৰ্মিনীক তেখেতৰ চাকৰি জীৱনৰ
অৱসৰৰ মূহুৰ্তত নুমলীগড় শোধানাগাৰ শাখা সাহিত্য সভাৰ বিশেষ সম্বৰ্ধনা

বিশেষ সম্বৰ্ধনা



শ্ৰদ্ধাৰ শ্ৰীমত প্ৰভাত শইকীয়া মহোদয় আৰু তেখেতৰ সহধৰ্মিনীক তেখেতৰ চাকৰি জীৱনৰ অৱসৰৰ মুহূৰ্তত নুমলীগড় শোধানাগাৰ শাখা সাহিত্য সভাৰ বিশেষ সম্বৰ্ধনা



নুমলীগড় শোধানাগাৰৰ বিত্ত সঞ্চালক শ্ৰদ্ধাৰ ইন্দ্ৰনীল মিত্ৰ মহোদয়ৰ চাকৰি জীৱনৰ অৱসৰৰ প্ৰাক মুহূৰ্তত নুমলীগড় শোধানাগাৰ শাখা সাহিত্য সভাৰ বিশেষ সম্বৰ্ধনা

অন্তৰংগ আলাপ



হিন্দী বোলছবিৰ পৰিচালক শ্ৰী নাৰায়ন সিং, হিন্দী বোলছবি আৰু ধাৰাবাহিকৰ লেখক শ্ৰী ৰাজেশ বেৰি আৰু অসমীয়া বোলছবিৰ অভিনেতা, প্ৰযোজক নয়ন নিলীমে নুমলীগড় শোধানাগাৰ শাখা সাহিত্য সভাৰ বিষয়ববীয়া, সদস্য-সদস্যৰ লগত সভাৰ সভাকক্ষ "অল্বেষণ"ত অন্তৰংগ আলাপত মিলিত হয়

স্মৃতিচাৰণ



জাতীয় কবি সাহিত্য অকাডেমী বঁটা, জ্ঞানপীঠ বঁটা, অসম উপত্যকা সাহিত্য বঁটা প্ৰাপক মহীৰুজ্জামান ফক্কনৰ ১৯ জানুৱাৰী, ২০২৩, বৃহস্পতিবাৰে পুৱা ১১-৫৫ বজাত দেহাৱসান ঘটে তেখেতৰ আত্মাৰ সদগতিৰ অৰ্থে সন্ধিয়া ৭ বজাত অনুষ্ঠিত এখনি শোক সভাত কবি গৰাকীৰ স্মৃতিচাৰণৰ লগতে তেখেতৰ বিদেহ আত্মাৰ চিৰশান্তিৰ বাবে এক মিনিট সময় মৌন প্ৰাৰ্থনা কৰা হয়

কৰ্মপত্ৰা নিৰূপণ



নুমলীগড় শোধানাগাৰ শাখা সাহিত্য সভাৰ ২০২৩-২৪ বৰ্ষৰ প্ৰথম কাৰ্যনিৰ্বাহক সভাত, আগন্তুক দিনৰ কৰ্মপত্ৰা নিৰূপণ

কাৰ্যভাৰ গ্ৰহণ



২০২৩-২৫ বৰ্ষৰ নুমলীগড় শোধানাগাৰ শাখা সাহিত্য সভাৰ নতুন কাৰ্যনিৰ্বাহক সমিতি

সভাপতি: হেমন্ত কুমাৰ নাথ;
উপ-সভাপতি: সংগম পঞ্চানন,
গজেন্দ্ৰ নাথ দাস, দিলীপ শইকীয়া
সম্পাদক: অজিত কুমাৰ দাস
সহ-সম্পাদক: বন্ধুমানি শইকীয়া,
প্ৰণৱ হাজৰিকা, অমূল্য কুমাৰ বৰা

পত্ৰিকা সম্পাদক: প্ৰণৱজ্যোতি শইকীয়া
সহ-পত্ৰিকা সম্পাদক: বুলবুল বৰা
সাংস্কৃতিক সম্পাদক: মনোজ কুমাৰ দাস
সহ-সাংস্কৃতিক সম্পাদক: প্ৰদীপ কুমাৰ দাস
কোষাধ্যক্ষ: চন্দ্ৰব্ৰত বুঢ়াগোহাঁই
কাৰ্যালয় সম্পাদক: থানেশ্বৰ দাস

ভোক

পাৰ্থ প্ৰতিম গোস্বামী

জি ই টি (চিভিল)

পাইপলাইন প্ৰকল্প

শান্ত ৰাতি এটাত যেতিয়া হোটেলখনৰ পিছফালৰ ৰাস্তাটোত পৰি থকা কুকুৰবোৰে ভুকিবলৈ আৰম্ভ কৰে, মজিয়াত একেলগে কেইবাখনো বিচনা পাৰি শুই থকা নয়ন, বুলবুল, আৰিফহঁতে প্ৰায়েই টোপনিৰ পৰা সাৰ পাই উঠে। সচৰাচৰ ৰাতি গহীন হ'লে এই কুকুৰবোৰে নিমাওমাও পৰিৱেশ এটা অশান্ত কৰি তোলে। কোনোবাই কোৱা মতে সিহঁতে ৰাতি ভোকত ৰ'ব নোৱাৰি এনেদৰে চিঞৰ-বাখৰ কৰে। কোনোৱে আকৌ ৰাতি ঘূৰি ফুৰা অশৰীৰি আত্মবোৰক দেখি কুকুৰবোৰে ভুকিবলৈ আৰম্ভ কৰে বুলি ধাৰণা কৰে! অথচ বিচনাত উঠাৰ পৰা কুকুৰবোৰে ভুকিবলৈ আৰম্ভ কৰালৈকে সাৰে থাকে বকুল। বকুলে 'কোনো অশৰীৰি দেখি সাৰে নাথাকে! সি সাৰে থাকে ভোকত!

যি ভোকে উজাই যায় তাৰ পেটৰ পৰা মূৰলৈ! কিছুসময় আগতে উদৰ পূৰাই খাই লোৱাৰ পিছতো পেট এটা এনেকৈ ভোকত কলমলাই থকাতো তাৰ বাবে ডাঙৰ সাঁথৰ। হোটেলৰ ৰুমত থকা চাহাববোৰে মাছে-মঙহে কেইবাবিধো ব্যঞ্জন ৰাতিৰ আহাৰত বিচাৰে যদিও, প্ৰায়েই মদৰ নিচাত এইবোৰ খাব-ল'ব পাহৰি যায়। নোখোৱাকৈ এৰি থোৱা মাছ-মঙহবোৰেৰে প্ৰতি নিশাই বকুলহঁতৰ বৰভোজ হয়। অথচ এনেকুৱা প্ৰতিটো নিশা ভোক এটা উজাই যায় তাৰ পেটৰপৰা মূৰলৈ!

: 'এইবাৰ বিহুত ঘৰলৈ আহিলে ভোলুলৈ চকলেট আনিবা দেই!' - বুলি পাঁচবছৰীয়া ভনীয়েক মণিয়ে বকুলক প্ৰায়েই ফোনত কাণ চোৱায়। সিহঁতৰ ঘৰৰ পিৰালিত পৰি থকা কুকুৰটোক মণিয়ে ভোলু নাম দিছে। পুহমহীয়া জাৰত কান্ধৰ কাষৰ কেইডালমান উল এৰাই যোৱা ফুটফুটীয়া চুৱেটাৰ এটা পিন্ধি মণিয়ে ভোলুৰ পিছে-পিছে ওচৰৰ চৰকাৰী স্কুলখনলৈ দৌৰি-দৌৰি যায়। আকৌ দেওবাৰে গোটেই দিনটো ভোলুৰ সৈতে মণিয়ে ঘৰখনৰ আগফাল পিছফাল দৌৰি ফুৰে। দিনটো বিচনাখনত ৰঙীয়া দেহাৰে ইকাটি-সিকাটি কৰি থকা মাকজনীয়ে মণিয়ে কি কৰিছে বা কৰা নাই চাবলৈ দেহত শক্তি বিচাৰি নাপায়।

'মণিক জন্ম দিয়াৰ পিছৰ পৰাই মাকজনী ৰঙীয়া হৈ পৰে। তাই ভালকৈ খোজ দিব পৰা নহওঁতেই, 'কলঘৰত ওপৰ মহলাৰ পৰা কেইটামান মালভৰ্তি গধুৰ বস্তা মূৰত পৰি দেউতাক ঢুকাই থাকে! দেউতাকে কলঘৰত বস্তা দঙা-মেলা কৰি ঘৰখন চলাই থাকোঁতেও বকুলে উদৰ পূৰাই খাবলৈ পোৱা নাছিল।

: 'শুদা পিয়ীজ-নিমখেৰে সদায় এনেকৈ ভাত খাব পাৰি নেকি?' - বুলি সি কেইবাদিনো ভাত নোখোৱাকৈ ভোকত উজাগৰে থকা কথা মনত

আছে আন কেতিয়াবা মাকক মাতবোল নকৰাকৈ অভিমানো কৰিছে! অথচ আজি হোটেলত চাহাব সকলে নোখোৱাকৈ এৰি যোৱা মাছে-মঙহে উদৰ পূৰাই খোৱাৰ পিছতো তাৰ ভোক লাগে!

'বিহুত মালিকে আগে-পিছে তহঁতক কিমানদিনৰ ছুটি দিয়ে?'

: 'ছুটি?'

-এক বন্ধুত্বসুলভ তাচ্ছিল্যৰ সুৰত সোধাদি সুধি আৰিফৰ তামোলৰঙী কোৱাৰিৰে স্বতঃস্ফূৰ্তভাৱে হাঁহি এটা ওলাই আহিল।

: 'বিহুৰ দিনকেইটাত আজিকালি চাহাববোৰৰ হোটেললৈ আহ-যাহ বেছিকৈ হে চলে! ছুটি পোৱাৰ আশা কম বুলিয়েই ধৰিল।'

-এখন হাতেৰে টেবুলখন মচি-মচি নয়নে বকুলৰ ফালে নোচোৱাকৈয়ে একে উশাহতে কথাখিনি শেষ কৰে।

'তাৰমানে এইবাৰ বিহুত মণিৰ আবদাৰ ভাঙিবলৈ যোৱা নহ'ব নে কি? শোতোৰা-শোতোৰ হাতেৰে যেনে-তেনে পিঠাগুড়ি খুন্দি পুতেক অহালৈ অপেক্ষা কৰি থকা ৰঙীয়া মাকজনীয়ে মণিক বুজনি দিব পাৰিব জানো? মণিৰ পিছে পিছে দৌৰি ভাগৰি জিভাখন মেলি পিৰালিত পৰি থকা ভোলুৰ চকলেট খোৱাও নহ'ব তেনেহ'লে? 'নাই নাই! বিহুত ঘৰলৈ নোখোৱাকৈ তহঁতৰ জীৱন চলি গ'লেও মোৰ নচলিব! তহঁত এনেকৈ যন্ত্ৰ একোটৰ দৰে হৈ যাব পাৰিলি নে?'

-কথাখিনি বকুলে প্ৰায় চিঞৰি উঠাদি ক'লে!

ৰঙীন জীৱন একোটা নিষ্ঠুৰ সময়ৰ হেতালিত এৰি নয়ন-আৰিফহঁতে যন্ত্ৰ হ'বলৈ বিচাৰিছিল জানো?

নিশ্চয় বিচৰা নাছিল! কিন্তু সেয়া যে আছিল পৰিস্থিতিৰ কঠোৰ দাবী!

পিছত যেনিবা বুলবুলে ঘৰলৈ যোৱাৰ ৰাস্তা এটা মুকলি কৰি দিয়াত বকুল আশ্বস্ত হ'ল।

'থ' অ'! তই ঘৰলৈ যাব বিচাৰিলে নিদিয়াকৈ কোনে থাকিব পাৰে? বৰ বেছি সেই দিনকেইটাৰ বাবদ দৰমহা কৰ্তন কৰিব পাৰে!'

-কৰিলে কৰক! বিহুৰ দিনকেইটাৰ বেতনৰ লালসাৰে তাৰ হেঁপাহবোৰত কবৰ দিবলৈ সি কাকো অধিকাৰ দিয়া নাই!

বিহুত ঘৰলৈ গ'লে ভোলুলৈ চকলেট লৈ যোৱাৰ বাবে আবদাৰ কৰিলেও আওপকীয়াকৈ যে মণিৰ কাৰণেও কিবা এটা লৈ যাবৰ ইংগিতকে তাক দি

পৰবৰ্তী অংশ অহা সংখ্যাত.....



MD's New Year Message 2023

My dear Colleagues,

As we embark on another new year, it is time to look back and celebrate our accomplishments that made the year 2022 special, while looking forward to the future with optimism and vigour.

For the first time since its commissioning, the Refinery was able to achieve 100 % capacity utilisation with crude oil throughput exceeding design capacity of 3 MMT in the calendar year 2022 against previous highest of 2.873 MMT in the calendar year 2018. This accomplishment has been the result of consistent hard work and efforts on the part of our employees for the past few years with focus on reliability of our equipment, systems and procedures. The endeavour has also been supported by higher availability of crude oil by supplementing the deficit through imports as well as commencement of reverse pumping of crude oil upto Guwahati by OIL.

Another highlight of the year 2022 is the mechanical completion of the 130 KM, 1 MMTPA capacity India Bangladesh Friendship Pipeline (IBFPL) from Siliguri in India to Parbatipur in Bangladesh in the month of December 2022. A project of strategic importance that has been primarily funded by the Govt. of India (except the 5 KM India portion), the pipeline is all set to be commissioned in the early part of the year 2023, opening yet another vista for the nation to deepen trade ties with its neighbour and establish its foothold.

Despite impediments and bottlenecks, the mega Refinery Expansion Project to enhance refining capacity from 3 MMTPA to 9 MMTPA including the Crude Oil Import Terminal in Paradip and Crude Oil pipeline from Paradip to Numaligarh is progressing reasonably well. I am hopeful that the present momentum will sustain itself as we brace ourselves to achieve fruition of this ambitious project in collaboration of our consultants, business partners, stakeholders and well-wishers alike. The scale and magnitude of this massive project is palpable in Numaligarh and other project sites with massive 24 x 7 mobilisation and deployment of resources and manpower with discernible physical progress.

Our organisation is on a high growth trajectory. To prepare ourselves to face the future, we have inducted fresh talent into the organisation. While welcoming new members into the company fold, it is my duty to reiterate that Human Resource is undoubtedly the most valuable asset of any organisation. Work ethics, sincerity, dedication and team spirit are the cornerstones that has set NRL apart in the last almost 3 decades and elevated it to the pedestal of one of the most respected organisations. I am sure that these values will continue to thrive in abundance and soar our company to even greater heights.

While business success remains our focus, we will continue to support and serve our community, the state and the region through our well devised CSR programs that aim to bring a smile in the lives of the people.

I take the opportunity to wish you and your family a happy and joyous New Year 2023.

With sincere regards,

Bhaskar Jyoti Phukan
Managing Director
Guwahati

01-01-2023



*Low Carbon Cruise on
Mahabahu Brahmaputra*

**DEMO-RUN OF
INLAND WATER VESSEL POWERED BY
METHANOL BLENDED DIESEL(MD15)**

