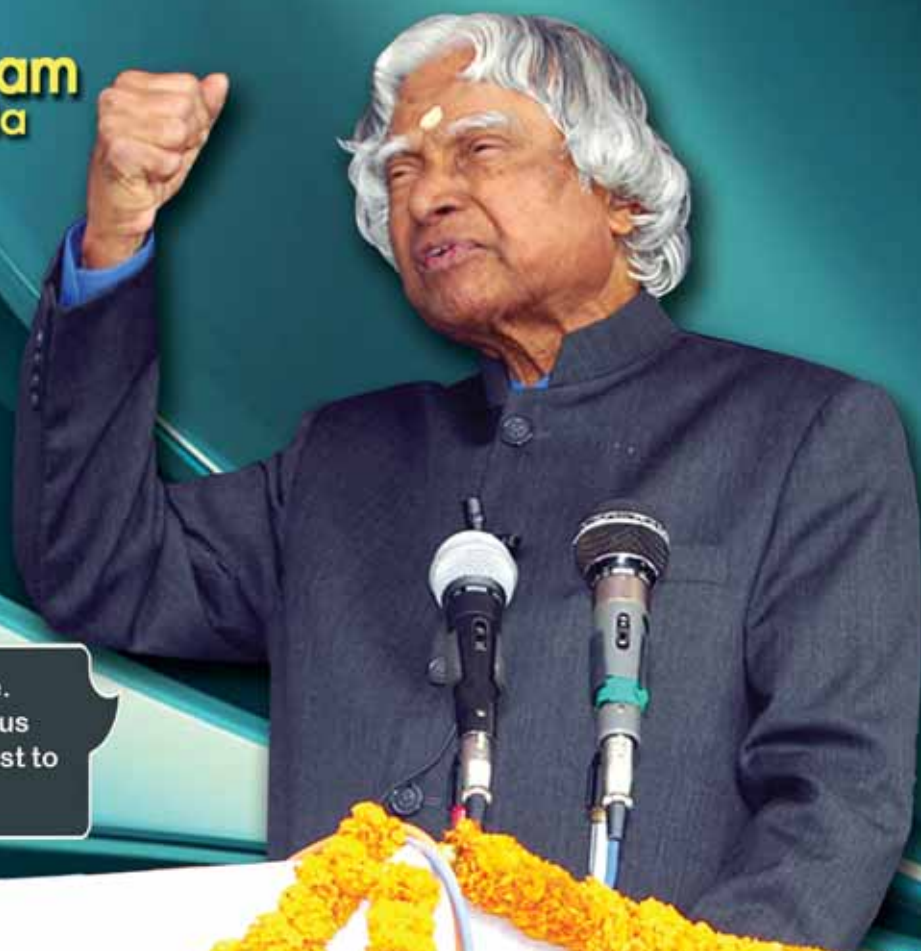


## Dr. A P J Abdul Kalam former President of India visits Duliajan

27th & 28th, January 2012



“Look at the sky. We are not alone.  
The whole universe is friendly to us  
and conspires only to give the best to  
those who dream and work.”





Volume 39 No. 6  
Jan - Feb 2012

#### COVER :

**Dr. APJ Abdul Kalam, former President of India visits Duliajan.**

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## ARCHIVES

The photo feature is an excerpt from 'Batori-1963'. The first Prime Minister of India Late Jawahar Lal Nehru visited Duliajan and laid the foundation stone of OIL Higher Secondary School in the year 1963.



### CORRIGENDUM

In November-December 2011 issue, in page No. 5, the name of CMD of GAIL was mentioned in the photo caption which should have been Shri A K Purwaha, CMD of EIL. OIL News regrets this inadvertent error.

## EDITORIAL

Dear Reader,

The highlight of the last few months has been the much awaited visit of the 'People's President', Bharat Ratna, Dr A P J Abdul Kalam to the Oil Township of Duliajan. His visit to Duliajan on the occasion of the Golden Jubilee Celebration of the OIL Higher Secondary School will be treasured for a life time not only by the students and faculty of the School, but by the people of the Township. The lively interaction sessions with the students and his inspiring speeches touched the heart of all who were fortunate to have seen and heard the great humanist in person. Dr Kalam encouraged the students to "Dream, Dream and Dream...Dream transforms into thoughts...Thoughts results into action." I was fortunate to have anchored one of the interactive sessions of Dr Kalam at Duliajan Club where everybody present was mesmerised by his wit, knowledge and humility. The OIL News Team is indeed very proud to chronicle this memorable visit of one of India's most revered icons and distinguished scientists.

Wishing you a healthy year ahead.

- *Tridiv Hazarika*

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The views expressed by the authors in the articles are their own and the Company does not subscribe or take responsibility for any part or whole of the views.

— Editor, OIL News

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## From Resident Chief Executive

*Dear Oilindian,*

In my earlier communiqués, I have touched upon the significance of the proverbial "OIL Culture" and the impact it has had on us Oilindians. I have always believed that the safety culture and climate plays a decisive role on the fortunes of the organization. As per a widely used definition, developed by Advisory Committee on the Safety of Nuclear Installations (ACSNI), safety culture is defined as: "The product of individual and group values, attitudes, perceptions, competencies and patterns of behavior that determine the commitment to, and the style and proficiency of, an organization's health and safety management."

The trend around safety culture originated after the Chernobyl disaster brought attention to the importance of safety culture and the impact of managerial and human factors on the outcome of safety performance. The term 'safety culture' was first used in INSAG's (1988) 'Summary Report on the Post-Accident Review Meeting on the Chernobyl Accident'. Experts also opine that Organizations with a positive safety culture are characterized by communications founded on mutual trust, by shared perceptions of the importance of safety and by confidence in the efficacy of preventive measures.

Health, Safety and Environment (HSE) has always been an integral part of OIL's organizational culture. For an extractive industry like ours, HSE must always be a focal point to ensure that we can negate the possible adverse impact on environment, prevent work site accidents and ensure sound health of the employees.

In this context, it is pertinent to mention that amongst the various physical targets, HSE related MoU targets have been assigned a significant weightage of 4 points. In recent times, we have been able to inculcate a safety culture by incorporating regular practices like making mandatory safety announcements prior to the beginning of any event or function. On the occupational health front, the worksite fitness program has become very popular amongst the employees. In fact in a recent Human Resource conference amongst the Oil PSUs, OIL's work site fitness initiative was presented as a case study and appreciated by all.

I think it will be relevant to make a mention about some of the noteworthy achievements and initiatives in the HSE front like SOPs (Safe Operating Procedures) for various operations been made. New HSSE policy manual has also been prepared and adopted by the Company. Mock drills (both onsite & off-site) to familiarize work persons with Disaster control are being done regularly. Each major accident is analysed & enquired into to find out cause & accordingly remedial actions are taken. Findings of the enquiry committee recommendations are disseminated to all employees through various forums. Crisis Management Team (CMT) has been formed to deal with well blow out and major fire incidents & procurement of various vital equipment for Crisis Management is in progress.

On the environmental front, OIL has successfully carried out a project on Bio-Remediation of oily sludge in collaboration with TERI. This technique is also now applied in fields wherever applicable. The new initiatives such as bioremediation of oily sludge, phyto-remediation of oil contaminated soil, disposal of MSW in a scientific way has brought encouraging results in controlling pollution and maintaining better environment in OIL's operational areas. OIL has obtained ISO-9001, ISO-14001, ISRS, OHSAS-18001 for a number of its installations. Actions are also in hand to obtain these certifications for more number of installations. A project on carbon footprint mapping and GHG emission has been taken up by OIL. This will help in reducing GHG emissions in our operations. OIL has taken up this step proactively as a progressive organization.

These proactive initiatives have also helped the Company to win prestigious awards like the Greentech Environmental Excellence Award and Golden Peacock Environment Award for its efforts in green movement and environmental protection in its oil fields.

While these are very encouraging developments, I must also express my concerns. At the end of the day most of the policies and practices boils down to the commitment of each and every employee. It is indeed very sad when a worksite accident or a near miss happens. But it is even worse when one realises that the accident could have been avoided if the concerned person or his colleagues could have followed basic safety norms. The tendency to be casual as regards to HSE practices can not only create misery for the individual concerned but can adversely impact others as well.

An organization's safety culture is ultimately reflected in the way in which safety is managed in the workplace. It is important to note that an organization's safety management system cannot consist of a set of policies and procedures on a bookshelf.

I would therefore appeal to each one of you to ensure that HSE becomes a way of life and not merely a compliance of set policies and practices. Let us also ensure that together we sustain a unique organizational HSE culture, which adds more luster to our coveted "OIL Culture."

*"When we heal the earth we heal ourselves."*

**- David Orr**

**(N K Agarwal)**

Resident Chief Executive

## Bharat Ratna, Dr. APJ Abdul Kalam visits Duliajan Inaugurates Golden Jubilee celebrations of Oil India HS School



**F**ormer president and renowned scientist of India Dr. APJ Abdul Kalam inaugurated Golden Jubilee Celebrations of Oil India Higher Secondary (HS) School, Duliajan on Jan. 27, 2012.

The event had fulfilled a long cherished dream of the school. Dr Kalam also laid the foundation stone of a Botanical Garden of Oil India Higher Secondary School, and planted a sapling along with Shri Nayan Moni Borah, Chairman and Managing Director of Oil India Limited. Former President, Dr Kalam in his deliberation stated that setting up of a quality school in this part of the country is an important corporate social responsibility mission.

Highlighting the necessity for improving the quality of primary education, Dr. Kalam stated that education cannot be a business product. He stressed that primary education is one of the most important phenomena for nation's growth. In his deliberation on 'uniqueness', the Missile Man of the country said that uniqueness comes only through hard work, knowledge and sheer perseverance.

He also expressed happiness that the school is imparting education in Assamese, Hindi and English which would definitely enable the local students to learn and understand the subjects.

Shrimati Kalpana Baruah Kachari, Principal, Oil India HS School in her welcome address, expressed gratitude to Dr APJ Abdul Kalam for his benign presence on the occasion and for inspiring the students with his informative speech.

Dr. Kalam also visited Duliajan Club wherein he had an interaction with OIL's officers and employees. Children from various schools accorded welcome to Dr. Kalam through some captivating cultural performances showcasing the rich tradition of Assam. Shri Phanidhar Gogoi, Secretary of Duliajan Club welcomed Dr. Kalam with traditional Assamese Gamocha and a bouquet. In his welcome address, Shri N K Bharali, Director (HR&BD) accorded greetings to Dr. Kalam and expressed heart full thanks for his kind presence. Students from St. Xaviers and Kendriya Vidyalaya, two premier schools of the Oil Town in the presence of employees of OIL, teachers of these schools and guardians of the students attended the programme. In the interactive session Dr. Kalam answered the curiously asked questions sharing his experiences. In his vote of thanks, Shri R K Saikia, GM- HR, expressed

gratitude to Dr. Kalam for encouraging the students with his enlightening speech. Shri N M Borah, Chairman and Managing Director, OIL and other dignitaries were also present on the occasion.

Dr. Kalam visited Zaloni Club wherein he addressed the officers of OIL. In his speech Dr. Kalam talked about 'Technology leading to non-linear growth' and discussed about 'Linkage between national economic development



and creative leadership'. He further illustrated that for promoting continuous innovation one needs to build research and enquiry, creativity and innovation, use of high technology, entrepreneurial and moral leadership. Dr. Kalam's speech was followed by an interactive session with the OIL officers.

Thereafter, Dr. Kalam visited Delhi Public School (DPS), Duliajan. He was given a warm welcome by the management, staff and students. The front field echoed with the cheering and excitement of the children who gave him a rousing welcome. Dr Kalam then interacted with the students and answered all the queries that were put to him. He in his speech entrusted the children with the responsibility of making India a self sufficient and powerful nation.

The highlight of Dr. Kalam's visit to all the different places in Duliajan was his interactive sessions, especially with the students from various institutions who got an opportunity to ask questions to the 'People's President'.



## Oil India Limited hosts The 16<sup>th</sup> Foundation Lecture of the Indian Geological Congress

The Sixteenth Foundation Lecture of the Indian Geological Congress (IGC) was held under the aegis of OIL at Duliajan on 3<sup>rd</sup> of March, 2012. The lecture was delivered by Sri Y.B.Sinha, Former Director (Exploration), ONGCL, on the topic “*Opportunities and Challenges in Upstream Sector*”, in the elegantly decorated Zaloni auditorium. The talk was inaugurated with a welcome speech by Sri N.K.Agarwal, Resident Chief Executive, OIL and was followed by an address by Sri S.Rath, Director (Operations), OIL where he highlighted the growth of the Company during the last couple of years and on behalf of the Chairman and Managing Director of the Company wished the long awaited lecture a grand success.

The speaker, Sri Sinha, highlighted the burning problem of the growing energy hunger of the world and India in particular, both in terms of gas and oil demand. Though coal would continue to be the leading source of energy in the country, trends indicated that hydrocarbon would continue to be the preferred energy source with 45% consumption share of the primary energy basket till 2025. On the supply front he mentioned that, the global exploration discovery volumes had been on a downward trend since the 1970s and during the last two decades of licensing regimes there have been a smaller number of winners but a much larger



Sri Y. B. Sinha, Former Director (Exploration), ONGCL delivering the foundation lecture

number of losers. However, he stated that oil and gas business is not in crisis due to the shortage of potential resources. The Middle East, Russia and CIS countries, the southern Gulf of Mexico, Arctic belt and the Far East still hold huge volume of undiscovered hydrocarbon. The areas were however challenging because of stringent policies, their environmental, geopolitical and logistical situation.

Based on his four decades long rich experience in the hydrocarbon industry, Shri Sinha elaborated on the options for bridging the demand and supply gap. He stressed that the critical factors for successful exploration consisted of aggressive exploration pursuit in today's frontiers



particularly in the deep water domain to convert them to tomorrow's giants as well as the concomitant focusing of potential realization from the producing and "yet to produce" basins. Collaboration and knowledge exchange between academia-institute-industry consortiums would be required for upgrading the hydrocarbon potential in these basins. Better strategies and innovative technologies for unconventional hydrocarbon exploitation as well as reservoir management and recovery improvement are also required. Globally the impending serious shortage of fully trained, seasoned professionals require generating more interest in the study of geosciences and enhanced stress on knowledge management.



Sri O. P. Verma giving away memento to Sri Y. B. Sinha, Former Director (Exploration), ONGCL

The eminent doyen of Indian geosciences, Professor O.P.Varma, who was also present during the lecture described the journey of IGC till date and while stating the objectives of the Congress expressed support of IGC to the hydrocarbon industry.

Prior to the vote of thanks offered by Sri R.Borgohain, General Manager (G&R), OIL, there was an active interaction between the speaker and the audience, which consisted of industry personnel as well as the academia. The entire programme was supported generously by Oil India Limited and managed efficiently by the company's personnel.

## Visit of Parliamentary Standing Committee of Petroleum and Natural Gas to Kakinada (KG Basin)



A 13-member Standing Committee of the Parliament on Petroleum and Natural Gas visited Kakinada (KG Basin) on 23<sup>rd</sup> February, 2012. Shri N M Borah, CMD, OIL, Shri B N Talukdar (Director-E&D), Shri S Rath (Director- Operations) and Shri T K Ananth Kumar (Director-Finance) along with other dignitaries of OIL received the 13 member team of the Standing Committee at Kakinada.

The committee, headed by Shri V Aruna Kumar, Member of Parliament, Lok Sabha, comprised senior officials of Ministry of Petroleum and Natural Gas and Parliament secretariat besides the other Standing Committee members visited the offshore exploration project on 23<sup>rd</sup> February. It was to obtain the first-hand view of how the mega exploratory operations take place in the coastal area and how companies are dealing with hydro-carbons, observe and maintain the standards of safety and environment protection.

The committee held meeting with the officials of Oil India Limited headed by Shri N M Borah, CMD, OIL and other Functional Directors. Discussion on OIL's operations in east coast took place during the meeting.

The Parliament constituted Standing Committees to give close consideration to all the legislative and other matters that come up before it. A good deal of its business is, therefore, transacted by what are called the Parliamentary Committees.

A full-fledged system of 17 Departmentally Related Standing Committees came into being in April, 1993. These Committees cover under their jurisdiction all the Ministries/ Departments of the Government of India. The Committee on Public Undertakings consists of 15 members elected by the Lok Sabha and 7 members of Rajya Sabha are associated with it. The term of the Committee is one year.

The newly constituted departmentally related Standing Committee System is a path-breaking endeavour of the Parliamentary surveillance over administration. With the emphasis of their functioning to concentrate on long-term plans, policies and the philosophies guiding the working of the Executive, these Committees is in a very privileged position to provide necessary direction, guidance and inputs for broad policy formulations and in achievement of the long-term national perspective by the Executive.







Shri N K Bharali, Director (HR&BD) (centre) receiving the award from Professor R K Mishra, Director, IPE (left) along with Shri Bhaskar Chatterjee, Ex Secretary, DPE (right)

## IPE HR Leadership Award

The Jury and Council of Board Members of the Institute of Public Enterprise (IPE) have conferred Oil India Limited with 'IPE HR Leadership award' on 16th Feb 2012 at World HRD Congress held at Taj Lands End, Mumbai. The award was given by Professor R K Mishra, Director, IPE along with Shri Bhaskar Chatterjee, Ex Secretary, DPE. Shri NK Bharali, Director (HR&BD) received the award on behalf of OIL



## Best Enterprise Award

OIL INDIA LIMITED bagged the prestigious prize for BEST ENTERPRISE AWARD in Public Sector Undertakings by SCOPE. Shri Narendra Modi, Chief Minister of Gujarat gave the award to OIL in the 22nd Annual National Meet of the Forum of Women in Public Sector (WIPS), functioning under the aegis of Standing Conference of Public Enterprises (SCOPE) on 11-12 February, 2012 held in Ahmedabad, Gujarat. This award was given for activities of WIPS CELL and company's contribution to women employees.

## OIL Security Department donates to Moran Blind School

The personnel of security department of Oil India Limited (OIL), Duliajan donated ₹24,000.00 (Rupees Twenty Four Thousand) to Moran Blind School (Janamangal Adarsha Andha Bidyalaya), Moran recently.

The school is working as voluntary organization in the state with a mission to empower the blind children for their inclusion in the mainstream.

Capt. Ananda Baruah, Head (Security), OIL, accompanied by senior officials of the department, donated the amount to Sri Victor Banerjee, noted and eminent actor, who is also the President of the School Committee, in a colourful function organised at the school. Sri Mohini Mohan Buragohain, Principal of the School was also present in the function.

It is noted that the entire amount was collected by performing Bihu Hussori during the last Bihu, by the security personnel. This gesture of the security department was appreciated by all sections of people.



Sri Victor Banerjee, President of the School Committee greets Capt. A. Baruah, Head (Security)

## North East OIL & COAL MINES Safety Week 2011-12

Under the aegis of Directorate General of Mines Safety, Oil India Limited concluded 'The North East Oil & Coal Mines Safety Week 2011-12' with internal prize distribution function on 3rd February 2012 at Duliagan Club auditorium premises. On this auspicious occasion the Chief Guest of the function Shri N K Agarwal, RCE spoke on the importance and continuous improvement of health and safety standards in OIL. Also in line with the theme of safety, Sri Rajen Gogoi, President, IOWU (Recognized Union) and Sri Diganta Borah, General Secretary, OIEEA (Executive Association) addressed the gathering.

The celebrations flagged off with acknowledging the longest accident free employees followed by awarding the installations under various operational boundaries of OIL. To spread the safety messages; slogan writing, poster making and quiz contests were conducted and prizes were distributed respectively. Competitions like safety song and safety skit which were composed, enacted by the employees were presented during the function and were highly appreciated.

The Celebration was organized by Safety & Environment (S&E) Department of OIL. Sri Chitrabhanu Bose, Head S&E, highlighted many initiatives that have been newly taken up during this year like carbon mapping of operational areas to reduce GHG emissions, E-waste disposal, bioremediation of oily sludge and HSE awareness programme for employee and their family members. Besides these initiatives, OIL has also conducted number of Safety Audits, disaster management mock drills etc.

Oil India Limited will be hosting the final day function of The North East Oil & Coal Mines safety week 2011-12 in the month of April 2012 in which Coal India Limited, ONGC (Asset- Sibsagar, Basin-Jorhat, Agartala, Silchar), GeoEnpro Petroleum Limited -Kharsang and Arunachal Pradesh Mineral Development and Trading Corporation Limited will take part. The function will be held after the external inspection of all the collaborated partners have been carried out.



## OIL Celebrates 63rd Republic Day

63rd Republic Day was celebrated in a befitting manner at Nehru Maidan, Duliagan. Chief Guest Shri K.K. Nath, Resident Chief Executive(i/c), OIL hoisted the National flag, followed by the National Anthem, Guard of Honour, March past & Cultural Programme. Shri N.K. Bharali, Director (HR&BD) and Shri V. K. Sibal, Executive Director was also present in the function as Guest of Honour. In the March Past, a total of 10 nos. of platoon took part, CISF - 2 platoons, OIL Security / Home Guard - 1 platoon, Fire Service - 1 platoon, OIL HS School - 3 platoons, Kendriya Vidyalaya - 2 platoon and Delhi Public School - 1 platoon. Cash award of ₹ 2500 was conferred to three best march past platoons of each group. A cultural programme was also organised where children from various school participated. Children from Mrinaljyoti School and dependants of CISF personnel also performed on the occasion. Sweets were distributed to children of LP School, OIL HS School, DPS, Kendriya Vidyalaya, Tiny Tots, St. Xavier's HS School, Bishnujyoti and Mrinal Jyoti School. Essay and drawing Competition were also organised amongst the school children of Duliagan where more than 2500 children participated.





## Oil & Gas Conservation Fortnight - 2012

The Oil Gas Conservation and Fortnight-2012 was celebrated with great enthusiasm at Fields' Headquarter, Duliajan from 15<sup>th</sup> to 31<sup>st</sup> January, 2012. In pursuant to the directive of Ministry of Petroleum and Natural Gas, Government of India, this event is celebrated every year to create awareness for conservation of Oil and Gas. As a part of the fortnight celebration, various programmes and competitions were conducted to spread the message of conservation. The programs were initiated in work places, education institutions, etc where everyone actively participated.



Sri N. K. Agarwal, RCE, OIL flagging off the publicity tableau

In the inaugural function of OGCF-2012 at the Fields Headquarters, Duliajan, started with hoisting of OGCF flag, pledge taking, flying of balloons, street play (at Duliajan Club & OIL Market), cycle rally and launching of publicity van with a tableau depicting the judicious use and conservation of petroleum products. As part of the event and to encourage children to understand the need for conservation, various competitions like drawing/painting, debate, on the spot slogan and essay writing were organised for the students at educational institutions located in and around Duliajan. Number of students participated in the debate competition on the topic 'Sustainable development possible through hydrocarbon conservation and energy efficiency'. An



Pledge taking at one of the installations

exhibition of models and posters on energy conservation was also organised at Delhi Public School, Duliajan.

Technical meet on the topic 'Substitution of Petroleum products with alternate sources' was organised at Drilling locations. Awareness programs on conservation of Oil and Gas were organised at schools and ladies forum in and around Duliajan, which evoked a good response. Two Auto Fuel Efficiency Check Camps were put up in collaboration with regional dealers of Maruti and Hyundai made vehicles, where about 150 numbers of vehicles were examined and serviced.



Active participation during the Technical Meet at Duliajan

OGCF-2012 was also observed at OIL's other field areas in Pipeline Headquarters Noonmati (Guwahati), Moran, Digboi and Arunachal Pradesh. It was also successfully organised in other spheres across the country including its corporate office at New Delhi with pledge taking and displaying of posters/slogans at the installations/offices.

On the Concluding day of the Fortnight, valedictory function-cum-prize distribution ceremonies were organised at Duliajan, Moran, Digboi, Noonmati (Guwahati) including all pump stations and at other OIL's spheres Headquarters, where winning participants of various competitions/events were awarded prizes with certificates of proficiency.



Debate competition at DPS, Duliajan

## OIL participated in Tinsukia Knowledge Fair - 2012

**O**il India Limited participated in the Tinsukia Knowledge Fair - 2012 held at Bordoloi Nagar playground, Tinsukia from 17th to 22nd January, 2012. OIL also extended financial support to this six day event besides putting up a pavilion in the exhibition, showcasing OIL's journey with focus on areas that cater to the main target audience - the students.

Organized by Tinsukia District Administration in collaboration with social organizations and intelligentsia, this annual event aims to provide an opportunity to the students from educational institutions from all over the District to take part in various competitions like Quiz, Debate, cultural programs, science exhibition, career counseling etc. A large number of students from OIL's operational areas in the district participated in this six days event.



*Sri M. Sundaram, DC Dibrugarh visits OIL's pavilion*

This year, a new concept of "Career Counseling " was introduced in OIL's pavilion, wherein young officers of the Company representing different disciplines (Chemical, Drilling, F & A, Field Engineering, G & R, Geophysics, IT, Prod (Oil), Prod (Gas), Public Relations) interacted with the students, sharing their personal experiences and guiding the students in pursuing different careers like Engineering, Geosciences, Finance, IT, Management, Corporate Communications etc.

This special initiative of OIL became a major attraction and was being appreciated by all. OIL's pavilion team also organized on the spot events like quiz, brain teasers etc amongst the students visiting OIL's Pavilion.

During his visit, Shri S S Meenakshi Sundaram, IAS, Deputy Commissioner, Tinsukia District thanked OIL for all the support and especially complimented OIL's Pavilion and the efforts put in by the young Oilindians.

Shri K K Nath, RCE in-charge also visited the pavilion on the concluding day and spent a lot of time with the OIL Team. He also complimented the team for the great show and opined that such activities not only helps the student community but also provide a potent platform to the young officers of OIL to develop team spirit and also an understanding of the aspirations of the people from OIL. Shri N K Das, GM (Planning) also visited the pavilion and encouraged the Team.



*OIL contingent at Tinsukia Knowledge Fair*

Shri K K Nath, RCE in-charge was the guest of honour in the valedictory function of the Knowledge Fair. Speaking on the occasion in the presence of a large audience and



*Sri K. K. Nath, RCE(i/c), OIL looking through the panels displayed at OIL's pavilion*

representatives of various organizations, he complimented the Tinsukia District Administration for taking up such a noble venture under the able leadership of the Deputy Commissioner. Shri Nath also made a mention of the various CSR activities that OIL has undertaken and continues to implement in the area of education.



*Active participation of children in Quiz Competition*



*Sri N. K. Das, GM(Planning) felicitates a quiz winner*



## Credit Disbursement Programme under Project Rupantar



Shri Binanda Deka- GGM(Production), Shri Rohini Pran Sangkakati Consultant SIRD & Shri Biswanarayan Gogoi, General Secretary (IOWU) addressing members of SHGs & JLGs at the disbursement function

**A**s a part of the ongoing Project Rupantar for creating avenues for sustainable self employment, Oil India Limited extended financial support to 150 Self Help Groups and 100 Joint Liability Groups with a total investment of ` 1.85 Crore in the financial year 2011-12.

Implemented by project partner SIRD, Assam, around 900 families comprising of 77 Self Help Groups and 26 Joint Liability Groups were ceremoniously extended financial assistance of `33.10 lakhs in the first phase, at a disbursement function held at OIL's Handicraft Training and Production Centre at Tipling in Duliajan on 30<sup>th</sup> January, 2012. The total credit mobilization of the project is ` 51.35 lakhs, out of which ` 19.25 lakhs has come as loans from nationalized banks.

The economic activities covered under the project in the first phase includes Duckery , Goatery, Dairy farming, Power tillers (under farm mechanization) and Weaving.

Shri Binanda Deka, Group General Manager (Production), OIL graced the function as Chief Guest, while Shri Dipayan Barua, Head – Training & Development Department, OIL and Shri Rohini Pran Sangkakoti, Consultant from SIRD were the guests of honour. Shri Sanglap Nahar Deka, Senior Manager (PR), Shri Tridiv Hazarika, Secretary of Project Rupantar and Manager (PR), Shri Tajnoor Hussain, Officer-in-Charge of SIRD's Project Rupantar Extension Centre at Duliajan, Shri Biswanarayan Gogoi, Honorary Secretary, IOWU were also present on the occasion.

While addressing the gathering Chief Guest Shri Binanda Deka reiterated OIL's commitment to support the Self Help Group movement through Project Rupantar and complimented the SHG members for making the Project such a huge success. Renowned social worker and facilitator of Project Rupantar, Shri Moni Manik Gogoi appealed to the SHG members to acknowledge the great help that has been extended by OIL and SIRD, Assam and implement their projects in real earnest.

It may be noted that Project Rupantar was recently recognized by World Petroleum Congress as one of the twelve most successful CSR initiatives undertaken by the global oil & gas sector and was showcased in the 20<sup>th</sup> World Petroleum Congress Exhibition held at Doha in December 2011.



Shri Binanda Deka- GGM(Production) handing over a cheque to one of the SHGs



One of the successful beneficiary of Project Rupantar sharing her experience



Taznur Hussain, Officer In-Charge, SIRD speaking about the agenda of the disbursement function



SHG members arrive at the Disbursement function at HTPC Complex, Tipling, Duliajan



Shri Biswanarayan Gogoi, General Secretary (IOWU), handing over a cheque to one of the SHGs

# PASSIVE SEISMIC

AS DIRECT HYDROCARBON INDICATOR

- A New Technology



Rahul Dasgupta  
Head - NEF

The upper layer of our Mother Earth, known as earth's crust, is always in motion. Earth, on one hand, is continuously creating new masses, whereas, on the other, some of the old and existing earth surface masses gets disappearing within the Mother Earth. This continuous creation and destruction of Earth's surface is a source of tremors, big or small, which we know as earthquakes. The minor tremors of Mother Earth is happening every moment and may be we got habituated with it.

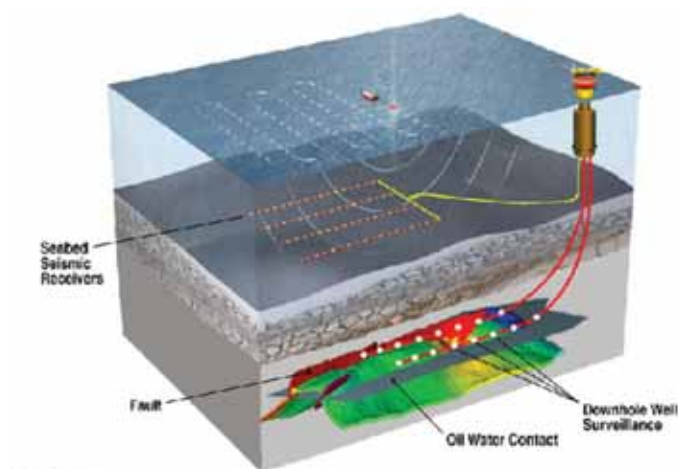
Today, in the entire world the seismic waves generated from these earthquakes are recorded at seismic observatories and stations located at nook and corner of the earth. These wave motions are studied by seismologists everywhere to understand the earthquakes phenomenon of Mother Earth. In the course of their motion, the waves also travels through upper layers of earth. Recent studies suggest that the low frequency components of wave behave differently while travelling through rocks containing hydrocarbons. This property of changes low-frequency seismic waves ( earthquake generated) due to presence of hydrocarbons is now exploited to provide indications of hydrocarbon resources deep within the earth. This technique of direct hydrocarbons indication by using the low-frequency seismicity of Mother Earth is above called "Passive Seismic as DHI". The technique was first invented in Russia in 1980s, and thereafter, has now been commercially deployed in different parts of the world.

Normally, in our industry we are very much accustomed to seismic survey (2D & 3D). We are well aware that in such seismic surveys, seismic waves which are generated by man-made earthquakes are measured by sensors placed on the surface of the earth. The traditional seismic survey uses artificial source and hence is now termed as "Active Seismic". The "Passive Seismic" is therefore, different because no artificial sources are involved and earth's natural vibrations are measured and inferences are drawn from there.

It is a fact that Oil India's main area of operation is in Assam and Arunachal Pradesh. This is one of the most seismically active regions of the country. Thus, it is felt prudent to test this novel technique here in our main areas of operations. After detailed study by geophysics department and following the process of tendering, a contract was awarded to a Russian company, MSU Geophysics, Moscow to carryout a pilot project for Passive Seismic as DHI. As a part of the contract, MSU Geophysics mobilized there sophisticated equipments and personnel and thereafter, acquired, processed and interpreted the data. Thereafter, the result was presented to our geoscientists at Duliajan and a detail report on the work was submitted.

Through this contract, around data was acquired as 480 data points in two blocks. It took around four (04) months to acquire data. The acquired data was processed and interpreted by the experts of M/s MSU Geophysics at there main center at Moscow. The work was supervised by our geophysicist and geologist who at the end are excited by the results obtained.

This new technology now has been introduced in our organization. The role of such technology is to reduce risks in exploration of hydrocarbons. It is more pertinent now because our exploration effects are mainly continued to logistically difficult and geologically complex thrust-fold belts areas. This will definitely be an useful tool for exploration in the coming days.



ऑयल इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
**Oil India Limited**  
(A Government of India Enterprise)



## XXXIInd PSPB INTER UNIT VOLLEYBALL TOURNAMENT, 2011-12

Oil India Limited (OIL) hosted the XXXIInd Petroleum Sports Promotion Board (PSPB) Inter Unit Volleyball Tournament 2011-12 at Duliajan from 15th to 18th January 2012. To promote volleyball in this region and to enable talent to be spotted, Public Sector Promotion Board organises this tournament every year. Tournaments organised under the aegis of PSPB goes a long way in sharing goodwill and mutual trust among different petroleum companies. Oil India Limited got the proud privilege to host this year's tournament.



This time a total of seven teams took part in this prestigious Volleyball tournament- ONGCL, BPCL, GAIL, CPCL, MRPL, IOCL (AOD) and OIL. It was a great opportunity for the people of Duliajan to watch some of the finest volleyball players in action.

Chief Guest of the inaugural ceremony, Shri N K Agarwal, RCE, OIL unfurled the flag and in his speech spoke about the popularity of volleyball as a sport in North-east and encouraged the participating teams to play the tournament with great spirit. He further spoke how PSPB and OIL has been taking initiatives to promote sports in this part of the country and encourage latent talents to come forward and participate in state and national level tournaments. Secretary of Assam Volleyball Association (AVA), Shri Munin Nobis was also present during the inaugural ceremony. As a part of the inaugural ceremony, a colourful cultural programme was performed by children from various schools.



Winner Team - ONGCL



Four matches were played during the inaugural day on 15th January, 2012 at Nehru Maidan, Duliajan. Some high quality matches were witnessed during the four days tournament. It was interesting to see how fast the players turned the games and how the teams played-high level volleyball. Teams that won their respective matches finally played semi finals: ONGCL vs OIL and BPCL vs GAIL.

ONGCL clinched the 32nd Petroleum Sports Promotion Board (PSPB) Inter Unit Volleyball Tournament at Nehru Maidan. In the final match, ONGCL outplayed BPCL 3-1 (25-27, 25-20, 26-24, 25-20). Host OIL secured the third position by defeating GAIL 2-0 (25-12, 25-11).

The chief guest of the closing ceremony Shri Arabinda Kalita, Superintendent of Police, Dibrugarh, handed over the champion's trophy to the winning team and also released a souvenir published on the occasion. Shri N K Agarwal, RCE, OIL handed over the trophy to the runners-up team. Tom Joseph of BPCL was adjudged the Best Volleyball Player of the tournament and was awarded Rs 7,500. The concluding function was attended by Shri Arabinda Kalita, SP Dibrugarh as Chief Guest, Shri N K Agarwal, RCE and Shri K K Nath, Executive Director (E&D) as Guests of Honour, Shri A N Baruah, GGM (Technical & also President of Organising Committee) and other dignitaries of OIL.



Runners Up - BPCL

# MORNING STAR Tiny Tots School

*An initiative of Ladies Club of Narangi*

**T**INY TOTS as a school believes in a holistic approach to education. Education that helps in the blossoming of the physical, mental, intellectual, social, emotional and spiritual dimensions of a child. It has been TINY TOTS motto to see every child grow from a tiny bud into a beautiful blossom.

The Morning Star TINY TOTS was opened in the year 1984 at Pipeline Headquarters, Narangi. The school has grown very rapidly and entitled as the "The Morning Star" as it is like stars that twinkles and spreads light in darkness. It is home away from home where the child loves to spend their day. TINY TOTS offers classes from the Pre - primary to primary with CBSE/ICSE syllabus.

TINY TOTS believes that the first five years in a child's life are most important because they lay the foundation for the future development. The play group children are full time exposed to free and informal games without any restrictions and inhibitions.

Over the past 27 years, the Morning Star TINY TOTS has established a solid curriculum, delivered by caring and experienced teachers. Small class sizes, great adult to child ratios, and a safe, loving environment mean that kids at Tiny Tots grow in confidence, happiness and success.

Tiny Tots teachers are not only aware that children are present, they also take time with each child personally

to compliment good task completion, reinforce positive behavior, offer suggestions, give directions and consistently implement behavioral adjustments to each child's personal needs.

The School has blossomed under the care and guidance of the Ladies Club of Narangi. Children who started their elementary education in this school have now prospered in their respective fields. The teachers have left no stone unturned in guiding the children coming from varied economic background to facilitate them to gain their foothold in the prestigious institutions of Guwahati. This has immensely benefited the children of the neighbouring areas outside the colony. Apart from the academic pursuits, children are also exposed to various extracurricular activities.

The constant patronage from Oil India Limited has made this possible so far. The constant help support and guidance from the Pipeline and Oil India Limited has encouraged the school management to integrate new changes and innovations to implement modern day teaching methods in their endeavour to bring the school at par with the leading schools of Guwahati.

Lots of activities are being planned for the future and once implemented, will be beneficial for the students in the times to come.



## Obituary

Shri Angsuman Mookerjee, Ex-DGM, OIL passed away at Apollo Hospital Bhubaneswar. He has left behind his wife and two daughters. Shri Mookerjee joined Oil India Limited (formerly Burma Oil Company) in 1962 as Asstt. Labour Officer. He retired from services in 1994 as Deputy General Manager from Bay Exploration Project, Bhubaneswar. He was an outstanding sportsperson and participated in many state level games in Assam. OIL News prays for eternal peace to the departed soul.



## CALCUTTA NEWS

## Metro Club Meet - 2011

Metro Club organised its mega event 'Metro Club Meet - 2011' on 28th & 29th January, 2012. The Metro Club Meet was inaugurated on 28th January, 2012 by Mr. B N Talukdar, Director (E&D). Mr. N K Bharali, Director (HR&BD), former CMD, Mr. R K Dutta and the Founder President and Founder Secretary of Metro Club i.e. Mr. J K Talukdar & Mr. D P Sen respectively and many other senior officials of OIL including ex-OIL Indians and also from other Govt. / Non-Govt. organisations. On this occasion Souvenir of Metro Club Meet - 2011 was released by Sri B N Talukdar, D(E&D). The inaugural function was followed by dance with Live Band and sumptuous Dinner. On 29th January, 2012 Jam session for Children with live Band and the programme was followed by Lunch. After Lunch, Prizes were distributed to all winners & runners up of all the Games competition held during the Annual Sports Meet - 2011.



## 51st Annual Cultural Programme

On 25th January, 2012 OIL Recreation Club organised the 51st Annual Cultural Programme at Uttam Mancha Auditorium, Kolkata. Shri Dilip Sengupta, the then General Manager (Technical Services) of Oil India Limited was the Chief Guest and released the Souvenir. On this occasion, OIL Recreation Club staged a Drama "Ami Madan Bolchi".

The Drama was performed by in-house talented artists of OIL Recreation Club Members and it was quite entertaining and humorous one which kept the audience spell bound. The Drama was followed by a spectacular Dance performance by renowned actress 'Indrani Dutta' and her troupe "Sristi". The entire programme was a grand success and a memorable one.



## PHQ NARANGI

## PHQ Dispensary Inaugurated

A physiotherapy unit at Pipeline Head Quarter Dispensary was inaugurated on 3rd February 2012 by Shri. D Phukan, GM (PLS), in presence of Dr. Chandan Baruah, Head (MS), OIL, Shri. Tapan Duarah, Head (PLS), Executives, IOWU Officials and Employees of the Pipeline Head Quarter. While inaugurating, Sri D Phukan requested all to resourcefully utilize the services of this unit. In his speech Dr. Chandan Baruah stressed on the importance of physiotherapy in rehabilitation and fitness and highlighted as how the unit will fulfill a long need of PHQ.

Dr. D K Talukdar, Deputy Chief of Physiotherapy unit, Duliajan Headquarter, demonstrated the application of the electrotherapy and exercise therapy equipments. Shri Phani Kalita, President, IOWU Pipeline appreciated the effort of Head (MS) and GM (PLS) in establishing the unit and underlined its benefits to the executives, employees and their families.





# TRAINING Snapshots



A program on Self Awareness, conducted by Aurobindo Society, Pondicherry from 7<sup>th</sup> to 8<sup>th</sup> Feb 2012 at MTDC, Duliajan



"Society of Petroleum Geophysicists Conference" held on 13<sup>th</sup> Feb 2012 at MTDC, Duliajan



Program on "Well Control during Well Intervention" conducted by Global Energy Talent from 16<sup>th</sup> Jan to 21<sup>st</sup> Jan 2012 at MTDC



A program on "Keep in Touch" on 29<sup>th</sup> Feb 2012 at MTDC, Duliajan



Program on "IT Security Awareness" from 21<sup>st</sup> to 23<sup>rd</sup> Feb 2012 at MTDC, Duliajan



A program on "Contract & Purchase" conducted by faculty from IIM Bangalore from 2<sup>nd</sup> to 4<sup>th</sup> Feb 2012 at MTDC, Duliajan



**Kalyan K. Das**, Officer-on Special Duty (Security), OIL, bagged Double Crown by winning the Senior Doubles (+35) title partnering Rajiv Bora of Guwahati and also won the Senior Doubles (+50) title partnering Dipak Kumar Das of Guwahati in the 14<sup>th</sup> India Club Open Tennis Championship - 2012 held at India Club courts at Guwahati from 25<sup>th</sup> January to 29<sup>th</sup> January, 2012.



**Migang Migom Pegu**, Executive Trainee of IT Department has participated in the recently held UKAA (United Karate Association Assam) 6th State Championship and bagged silver in 84 Kg individual Kumite (Sparring) category and bronze in team Kumite (Sparring) category.



**Suranjam Majumdar**, Chief Manager (Vigilance) PL has successfully passed M.Sc. (Environment & Ecology) in first class from Sikkim Manipal University under distance learning programme.



During his association with OIL, he also passed company sponsored Diploma in Industrial Safety (DIS) from Regional Labour Institute, Calcutta and LLB from Dibrugarh University.

**Deben Bordoloi**, Mechanic II, OIL, was awarded with "Appreciation Certificate" Shram Veer Award by Assam Productivity Council. in recognition towards exemplary and innovative job performance. Assam Productivity Council confers Sharm Veer Award for Workmen employed in industrial units with a view to accord recognition for their commendable performance.



## Oil India All Assam Junior Tennis Championship 2011-12



The Oil India All Assam Junior Tennis Championship 2011-12, sponsored by Oil India Limited (OIL), organised by Zaloni Club, Duliajan at Zaloni Club and Duliajan Club Tennis courts, from January 19-23, 2012, completed successfully. All together 170 players from various parts from the region took part in it. The championship was held in Boy's Singles- Under 12, 14, 18 years and Girl's Singles- Under 14 and 18 years.

Amlanjyoti Barua of Guwahati clinch the Boy's Singles (Under 18 years) by defeating Arnab Duwarah from Duliajan 6-3, 6-2 in the final while in the Boy's Singles (Under 14 years) Zaputsho Khate from Nagaland won the title beating Kritartha Hazarika of Nowgong 6-1, 7-6 in the final. In the Boy's Singles (Under 12 years) Pratyush Poddar from Golaghat won the title by defeating Kunal Sutradhar of Duliajan 4-1, 4-2 in the final.

Murchana Saharia of Guwahati bagged the Girl's Singles (Under 18 years) title by defeating Jyotishmita Khaund of Duliajan 6-1, 6-1 in the final while in the Girl's Singles (Under 14 years) Naziya Ahmed of Guwahati won the title by beating Shrestha Barua of Jorhat 7-5, 6-4 in the final. In the closing ceremony, the prizes with scholarship money were distributed amongst the winners by Kulendra Kumar Nath, Executive Director (E&D), OIL, Abani Barua, Group General Manager, OIL and Ranjit Kumar Saikia, General Manager (HR), OIL and Chairman of the Organising Committee. All the winners and Runner-Ups were also awarded with sports-gears gifted by international famed sports-gear manufacturer "HEAD" for further development of the game in the region. Debasish Bora, Organising Secretary offered the vote of thanks. Kalyan K. Das was the Tournament Director while Chandrasekhar Mohanty was the Chief Referee of the championship.





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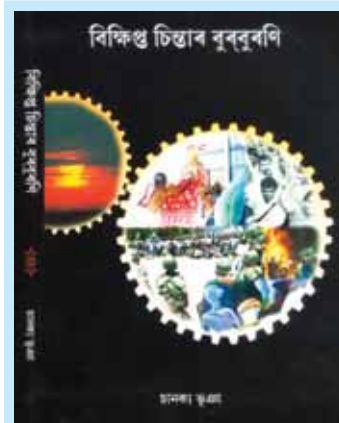
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A+ = Y\_äl ü x r ] r ç % X 0 a j p » = Y » Key - Key » ] d T o Sustianable development possible through hydrocarbon conservation and energy efficiency ` V b E o [ T E o Y b a c G T o % a d c L X E o c e c % \_ % o d V { Y Y c [ E o • 0 T o % c e u (model) % o d a Y c r o a » ` A l p a e » I u s a n o E o r Y U K Y A F X % X 0 a t o e c % \_ \* a E o [ Y c V s ] O b e a a c E o k a ] E t o Substitution of Petroleum Products with alternative sources ( x [ E o ' + m u X a » a Y b \_ r c ] L c T o a c ] G b O u X Y b S ) x [ p r E o a E o X a E o a o ] X o » % a d c L X E o c e c % \_ \* • 0 Y c Key - Key Y o d ] c \_ c a ] d » E o a S C P u r P u r a T o - a G k = a L c G T o % X 0 a X % a d c L X E o c e c % \_ \* ] » S , Y c + Y \_ c + X , O G e ] y % o d % » S d o Y b T o U e c a E o [ Y c V s a E o c a j p a l i y a T o a T o - a G k = a e » I u s Y a b E o Y c X E o c c f \*

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$$\begin{aligned} & \text{aE} \langle \text{p} \rangle \text{X} \rangle \text{a} \text{f} \text{I} \text{c} \% \text{p} \text{O} \text{Y} \gg \text{a} \text{I} \text{y} \text{X} \text{N} \text{G} \gg = \text{a} \text{V} \text{c} \text{G} \text{T} \text{o} \% \text{a} \text{f} \text{c} \text{L} \text{T} \text{o} \text{A} + [\text{a} \text{K} \text{a} \gg \text{E} \text{d} \text{f} \text{c} \% \text{X} \text{G} \text{X} \text{O} = \text{Y} \text{a} \text{I} \text{u} \\ & \text{Y} \gg \text{p} \text{O} \gg \text{G} \text{T} \text{o} \text{V} \text{H} \text{H} \text{I} \text{d} \text{E} \text{c} \gg [\text{y} \text{a} \text{I} \text{y} \text{V} \text{E} \text{O} \text{X} \text{c} \text{I} \text{p} \text{e} \text{c} = \text{U} \text{E} \text{c} \text{E} \text{o} \text{I} \text{d} \text{y} \text{V} \text{H} \text{H} \text{I} \text{d} \text{E} \text{c} \gg [\text{y} \text{a} \text{I} \text{y} \text{V} \text{E} \text{O} \text{X} \text{c} \text{I} \text{p} \text{e} \text{c} = \text{U} \text{E} \text{c} \\ & + \text{a} \text{O} \text{a} \text{I} \text{X} \% \text{V} \text{E} \text{O} \text{Y} \text{G} \cdot \text{I} \text{T} \text{o} \text{E} \text{o} \gg \text{G} \text{a} \text{T} \text{o} \text{A} + = \text{Y} \text{a} \text{I} \text{u} \% \text{a} \text{f} \text{c} \text{L} \text{X} \text{E} \text{o} \text{c} \text{X} \text{I} \text{a} \text{O} \text{Y} \text{E} \text{I} \text{a} \text{c} \text{G} \text{T} \text{o} \text{X} \text{I} \text{L} \text{I} \text{V} \text{a} \text{E} \text{o} \text{a} \text{E} \text{c} \\ & \text{Y} \text{G} \cdot \text{O} \gg \text{X} \text{I} \text{c} \text{c} \text{f}^* \end{aligned}$$

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Bhupen Hazarika Xc]» L'U'U' %<Ö Iü F>\*



(G) 27 LcXpY 2012 - ÖÖ %<Ö EÖ`c]» %<Ö X  
"I have wings I will fly" VÖ Iç [pÖ × Iç aEö` %<Ö >[wVc\_r  
äÖÖ >[wVc\_r Eö» [pÖ` =Vç %<Ö LcXc >[wVc\_r G>TÖ %<Ö >[wVc\_r  
éTÖ XG»TÖ Uç Eö ÖÖ EÖ`c] äLc» >[wVc\_r G\_a] GÖVc VcLcX\* %+\_\_  
+%< =-JOTÖ ]dMx]Eö>[wVc\_r» aaSc\_Y L'U'U' ]bTÖ %<Ö >[wVc\_r  
aVcTÖ 27 LcXpY TÖ»F ]Ei %<Ö >[wVc\_r =YÖTÖ >[wVc\_r %<Ö  
Fç >[wVc\_r Y»] >[wVc\_r TÖ >[wVc\_r >[wVc\_r >[wVc\_r A >[wVc\_r äL %<Ö  
EÖ`c] YÖä] >[wVc\_r Eö× Iç %<Ö× I Eö» ]c >[wVc\_r >[wVc\_r =ä [pÖ Eö»\*  
27 LcXpY TÖ»F >[wVc\_r` 4.30 [pÖ >[wVc\_r äÖcV TÖ =YÖTÖ >[wVc\_r







00 Eo [a] x[Vic\_r] =>av=Vicx %dpx\_c 0qYX Eo =Y»C  
[j]iaCYS Eo\*  
x[Vic\_r] aCvTYoY [Eo] ]tue\_ =P0%ce\_ \_aG \_aG Yq VgacLc  
Key-Key, x I Eo x I uYy %p0 x jk ro %Toua aTCEo x[Vic\_r] \aY  
cEToSx LXc+ xU ec=%d/»s LXq\* %+\_ %Wu %p0Y»\$ X  
aTuc Eo \XrX]s [j]acac= TqWEo =Jo YV0o x[j]rc =Y»aT UE  
%XoXoT0 00 Eo [a] 0o maSa» ]»aT0 AEEO [j]Npa» %cAX]iS  
Eo[j]\_ Key-Key aEo Eo %cAX LXq %p0 LpX] ]cd =a i pux  
%c»S» Wp d j c Eo [H] iaNp Eo P» Y» q T0c %Wp ad A+ \$» 0c  
XVto %Xc\_Y\_X Eo[j]\_ %p0 x I qL pXto Eo] C Y»aT Eo GK Yc  
»d[j]\_ Y»c]` i »a\*`



Jcex x[j]puxY G»cEda "I am happy that Oil India School has  
been imparting quality education to the local residents of  
Duliajan and the children of employees who are posted in  
this area. I consider, establishment of a quality school in  
this region is an important corporate social responsibility  
mission." [j]\_ %+\_ +%0c x x]a00»c` \_cG\_r\* ]cY aT0T  
y0] x[Eo] %p0 =xCTo x[j]k ro %Vc %G [j]Npa x[j]puxY 0] c=%c \c  
A»0X, \$0»0»]S, a] 0q] E0y, G0c] a[y, 00 \aYX cEL»Eo %cV  
]c] c] c] [j]Np aEo » maSa» =Yc uec=a] r [j]x ToaFCL aY\_c+ »L»  
Y0» x Y[y u Eo»e\_ 00 Eo [a] Key-Key aEo Eo %cAX LXq\*  
]cex x[j]puxY LaX a] cL, av` T0c LcT0T0c Y0Y] AaEo AaEo L  
\c ]cXc=c[j]\_ Key-Key aEo Eo Y»c]` i »a\*` aT0c %cAX j]a»  
a]q0»X]iS Eo[j] aFCL x E» eaaT0C %U0eG %c\_Y %X0Xa0c  
\cG\_r\*



aaSc\_Y LRU [j]o» %c»S %X0Xto 00 A. x. aL %cEC Eo c] »  
%e` G0S %p0 x[Vic\_r] Y0T0» [j]o 1963 \$Xto T0cXU0 Y0pX  
]Uy Y»aT0 Lc» \_c aXc»0 x[Vic\_r] V` X x[Vic\_r] Fx» [jaY V0c  
%»0=a{FaGgi H0Xc\*  
(H) 29 LcX0»Y, 00Eo x[j]L»0T0Y0» x]\_X  
29 LcX0»Y T0»aF Y0pX Key-Key, Y0pX x I Eo x I uYy %p0  
[j]V0c x I Eo x I uYy, Key-Key %p0 Eo [j]aY aEo » AEo 00Eo  
x[j]L»0T0Y0» x]\_X (Nostalgic Reunion) %X0T0 ec=^d\* 29  
LcX0»Y T0»aF Y0pX \cT0 x[Vic\_r] FX» Y0pX x I um»0aEo Eo`ac=  
]cY»c` \_c=Y0c]` %X0X L»aT0 x[Vic\_r] \aY a]NpXc LaXc cF\*  
»X» Y0 10:30 [j]Lc Y»c av` x]av` » x]a0 Y0U0 Y»c %c»a] a]T0  
ac0c T0X ac0p Y0pX Key-Key 00Eo x[j]L»0T0Y0» x]\_X a] »c=  
aZ0 T0» %X0T0 ec=^d\* Y0pX Key »a]YV0E0 Vca» aTuc XCTo  
%X0T0 aT0 Y0pX Key-Key 00 ]t0cSY av[y, \_iS Vca E0XGc  
]X»Ld »Xc» Y0»0[j]0c Yc [j]E0c \c0c, %»S E0c Vca, ]cY  
G0c, 00 »T ToE0c [j]0c, aEo E0c »cL %cV` T0WEo Y0pX x I uYy  
00Eo»a] U0 Eo\* %cXc»T0` 00 x I Eo x E ac»T0Eo Y0pX %Wu  
^c0V0X0d Z0c, Y0pX %Wu i »EoS \$0V0E0E0, a0\_F0c Xc` ]c  
aG0c]Y, %X0cVca, E0T0 x I uYy \$0Y0c Vca, aLi0T0c av[y, Y0»T0  
[j]V0c %cV [j]S LX» =Y»aT0 Nostalgic Reunion aaST0a0c  
\$0d\* »c» \cT0ac»0T0Eo %X0X %X0T0cF\*  
AaXVa» \$» »Xa»c] [j]S0 Eo Y0] »E0» %+\_ +%0c =T0  
]cY»Eo x[Vic\_r] aaSc\_Y LRU [j]o»S Y[j]aY »aY =Vc»YTo  
ec=^d\*







শ্রী অমল কলিতা, অধ্যক্ষ, অসম চৰকাৰ



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শ্রী অমল কলিতা, অধ্যক্ষ, অসম চৰকাৰ



অইল ইণ্ডিয়া লিমিটেড  
(ভাৰতীয় সৰ্বকাৰৰ কোম্পানী)  
**Oil India Limited**  
(A Government of India Enterprise)









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nōlʰpʰēvēxē Eō + {xēlā nēu Eō nēuē bā Eōxē ē xēlā  
nōlʰpʰēvēxē C±lē ʰlā + pʰlē < lōxē lē lē lō ÷ Eō + lēvēdēvēlā  
+ lēu Eō ʰsēvēvēlā ē lēlēlē lēlēlēlā lā + lō lēlēlēlā Eōdā  
oʰlāvēlē lēvēlā\* lēlēlēlāvēlā + oʰlē Eō oʰlēvū { lēvēlā Eō  
+ xēvū lēvēlā MB oʰlāvēlā xēvū Eōxē ē Eōdā + lē lēlēlēlā lēvēlā\*  
< oʰ + lēvū { lēvūlʰpʰēvēxē C±lē Eō oʰsēlē lēvū ; lōvēlāvēlāvēlā  
vēlā = xēvū { lēvū Eō + oʰlē lēvēlā lēvū + lēvūlāvēlā lēvūlāvēlā  
lēvēlā\* + {xēlā oʰlāvēlā lēvēlā ʰlā lō Bxē. Eō lēvūlā lēvūlāvēlā  
( lēvēlā oʰlāvēlā + lēvū lēvēlā lēvēlā ) xēlā bā Eōxē ē Eō  
vūlāvēlā + lēvūlāvēlā lēvēlā + lēvūlʰpʰēvēxē C±lē { lēvūlāvēlā lēvūlāvēlā  
= xēvūlāvēlā lēvūlāvēlā lēvēlā\* nōlʰpʰēvēxē xēvūlāvēlā lēvūlāvēlā  
oʰlā { lēvūlāvēlā lēvūlāvēlā = xēvūlāvēlā + lēvūlāvēlā lēvūlāvēlā { lēvūlāvēlā  
= lēvūlāvēlā Eōxē ē vūlāvēlā + {xēlā lēvūlā + xēvūlā Eō + lēvūlā { lēvūlāvēlā  
lēvēlā\* vūlāvēlā lēvūlāvēlā lēvūlāvēlā Eōvūlāvēlā lēvūlāvēlā + lēvūlāvēlā  
lēvūlāvēlā ( lēvēlā oʰlāvēlā ), xēlā bā Eōxē ē Eō lēvūlā + lēvūlā  
+ lēvūlāvēlā lēvēlā\* < oʰ + lēvūlā { lēvūlā lō Bxē. Bē lēvūlā + vūlāvēlā  
Bē lēvūlāvēlā lēvūlāvēlā + lēvūlāvēlā < lōxē lē lē lō ÷ + lēvūlā + xēvūlā lēvūlāvēlā  
lēvūlā lēvūlāvēlā lēvūlāvēlā lēvūlāvēlā lēvūlāvēlā lēvūlāvēlā

VĒ+ĒĒ C±Ē Ēā JĒSĒJĒS ĨĒ oĒĒMĒ Ēā=(Ē°ĒĒ  
+ĒĒĒĒĒ EĒā oĒĒĒĒ EoĒā 1/3 bĒ EoĒĒ Ēā+xĒĒ  
“ĒĒ ĒĒĒĒ ĒĒā(ĒSĒĒĒ) ĒĒ(ĒSĒĒ)=x/Ēā+Ē (Ē±Ē  
oĒĒ (bĒĒ°), nĒĒĒĒ EĒ nĒĒ ĒoĒ\* oĒĒ (ĒĒĒ(Ē  
ĒĒĒ, 0]Ē;0 +ĒĒĒĒĒĒāĒā=ĒĒĒ MĒĒĒ oĒ°  
ĒĒĒ MĒĒ\* ĒĒoĒĒ Ēā=(Ē°ĒĒ ĒĒĒĒĒĒā oĒĒĒ EoĒā  
1/3 =x/ĒāEoĒĒ ĒĒ;ĒĒ EĒāBEo +ĒĒĒ;ĒĒ +ĒĒĒĒĒĒ+Ē  
ĒĒĒĒĒ EoĒĒ ĒĒĒ ĒĒĒĒĒĒāĒā + (ĒāEĒā(Ē±Ē  
1/3\* =x/Ēā<Ē + ĒĒĒ(ĒĒĒĒĒĒāĒĒ (ĒāMB oĒĒĒā  
EoĒĒĒ ĒĒĒ ĒĒĒ\*

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J'ÉÉÉÊÉ

ĒĒVĒNĒĒO SĒĒĒ āĒĒĒĒ® ĩĒĒĒĒ ĒĒĒĒĒ BĒĒU ĒĒĒXĒĒO  
 ĩĒĒĒĒĒĒĒ āĒĒĒĒĒ ĒĒ° ĩĒĒ BĒĒĒĒ BĒĒU ĒĒĒXĒĒO  
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 =°Ē ĒĒĒ° āĒĒ ĒĒĒĒ ĩĒĒĒ ĒĒĒ BĒĒU ĒĒĒXĒĒO  
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 āĒĒ KĒĒĒĒ, <°Ē ĒĒĒĒĒ ĒĒĒĒ® ĒĒĒĒĒĒĒĒĒĒĒĒĒĒĒĒĒĒĒĒĒ  
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 āĒĒ ĩĒĒĒ <°ĒĒ °ĒĒĒ BĒĒU SĒĒĒĒĒĒĒ āĒĒ ĒĒĒĒ® BĒĒU ĒĒĒ  
 XĒĒO

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CEL<sup>®</sup>C<sup>®</sup> ÉÀÉÉÇ

$$\partial \bar{\partial}^a \bar{\partial}^b + \bar{\partial} \bar{\partial}^a \bar{\partial}^b = \{ \bar{\partial}^a, \bar{\partial}^b \} = \bar{\partial}^a \bar{\partial}^b + \bar{\partial}^b \bar{\partial}^a$$



IEEE B'AMME O'RAMME {EJTECÉ 2012

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ከህዝብ (ዘፍፋይ) ማዕከል፣ ስለሚገኝ የሕዝብ ምክር ቤት ምክሮች ስልጣን  
 ተገቢ ሲሆን፣ ለሕዝብ ምክር ቤት ምክሮች ስልጣን ማረጋገጥ ይገባል።

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# BRIDGING THE DIGITAL GAP

Special avenue for Computer education

**Computer Education Centre**  
at Extension Centre, SIRD, Duliajan  
an OIL-SIRD initiative under Project 'Rupantar'

Founded in 2004, aimed at generating alternate employment through imparting Computer education at minimum costs. Over 50,000 students have successfully passed out from the Computer Centre till date.